

**UNITED STATES DISTRICT COURT
DISTRICT OF NEW JERSEY**

**IN RE: PROTON-PUMP
INHIBITOR PRODUCTS
LIABILITY LITIGATION**

**2:17-MD-2789 (CCC) (LDW)
(MDL 2789)
and all member and related cases**

**This Document Relates to:
All Actions**

Judge Claire C. Cecchi

**REPORT & RECOMMENDATION
OF SPECIAL MASTER ELLEN K. REISMAN
REGARDING *DAUBERT* MOTIONS**

TABLE OF CONTENTS

I. INTRODUCTION1

II. OVERVIEW OF RELEVANT LEGAL STANDARD6

 A. Qualifications8

 B. Reliability10

 C. Fit.....15

III. PLAINTIFFS’ MOTIONS15

 A. Dr. Marianne Mann15

 B. Dr. Janice Lansita22

 C. Dr. Robert Gibbons29

 D. Dr. Rajat Deo.....37

 E. Dr. Caren Palese43

IV. DEFENDANTS’ MOTIONS49

 A. Dr. David Ross49

 B. Dr. Martin Wells.....63

 C. Dr. David Charytan71

 D. Dr. Wajahat Mehal79

 E. Dr. Derek Fine.....87

 F. Dr. Gilbert Moeckel91

V. CONCLUSION108

I. INTRODUCTION

The Judicial Panel on Multidistrict Litigation (“JPML”) established this MDL 2789 proceeding in August 2017 to consolidate claims alleging personal injury and wrongful death resulting from the use of proton pump inhibitor drugs (“PPIs”). In Case Management Order (“CMO”) No. 33, the Court created a process for bellwether selection, and in accordance with CMO No. 36, twenty plaintiffs were identified as those whose cases would be worked up as potential bellwethers.¹ In CMO No. 48, the Court selected six cases that were designated as the Bellwether Trial Cases and the parties have been preparing these cases for trial.² Trial in the first bellwether case, *Rieder*, is scheduled to begin on November 14, 2022, with trial in *Foster* scheduled on March 1, 2023, and trial in *Bales* scheduled on April 10, 2023.³

In CMO No. 50, amended by subsequent CMOs, including CMOs No. 75 and No. 76, the Court directed me to prepare Reports & Recommendations (“R&Rs”) as to the parties’ summary judgment motions, motions to exclude expert testimony under *Daubert v. Merrell Dow Pharmaceuticals, Inc.*,⁴ and certain other motions in

¹ CMO No. 33, ECF No. 513; CMO No. 36, ECF No. 548.

² CMO No. 48, ECF No. 665. The six cases selected as the Bellwether Trial Cases are *Freddy Bales*, No. 2:17-cv-06124; *David Foster*, No. 2:17-cv-02475; *Steve Kersch*, No. 2:18-cv-03159; *Kimberly Lee*, No. 2:17-cv-00212; *Diane Nelson*, No. 2:17-cv-13727; and *James Rieder*, No. 2:19-cv-00850.

³ CMO No. 76, ECF No. 801.

⁴ 509 U.S. 579 (1993).

the six Bellwether Trial Cases.⁵ To facilitate the preparation of my R&Rs, I requested oral argument from the parties as to certain motions. On April 4 and 5, 2022, I held those oral arguments; the transcript of the April 4 oral arguments on the *Daubert* motions is attached hereto as Exhibit No. 1.⁶

The Plaintiffs' Steering Committee ("PSC") filed briefs and presented arguments on behalf of the individual plaintiffs. AstraZeneca Pharmaceuticals LP and AstraZeneca LP (collectively "AstraZeneca") are defendants in all six of the Bellwether Trial Cases, and Merck Sharp & Dohme Corporation is named as a defendant in the *Rieder* and *Kersch* cases.⁷ Takeda Pharmaceuticals Company Limited, Takeda Pharmaceuticals America, Inc., Takeda Development Center Americas, Inc. f/k/a Takeda Global Research & Development Center, Inc., and Takeda Pharmaceuticals U.S.A., Inc. (collectively "Takeda") are defendants in *Bales* only.

The PSC moved to exclude testimony by certain AstraZeneca and Takeda experts:⁸

1. Dr. Robert Gibbons on behalf of AstraZeneca in all six Bellwether Trial Cases;

⁵ See CMO No. 50, ECF No. 685; CMO No. 75, ECF No. 784; CMO No. 76.

⁶ Oral Args., Apr. 4, 2022, attached as Ex. 1.

⁷ For purposes of this R&R, "AstraZeneca" also includes Merck Sharp & Dohme Corporation for those two cases.

⁸ Pls.' Omnibus *Daubert* Mot. to Exclude Defense Experts, ECF No. 702.

2. Dr. Jennifer A. Pinto-Martin on behalf of AstraZeneca in all six Bellwether Trial Cases;
3. Dr. Janice Lansita on behalf of AstraZeneca in all six Bellwether Trial Cases;
4. Dr. Marianne Mann on behalf of AstraZeneca in all six Bellwether Trial Cases;
5. Dr. Rajat Deo on behalf of AstraZeneca in the *Rieder* and *Bales* cases;
6. Dr. Jonathan Opraseuth on behalf of AstraZeneca in the *Lee* case;
7. Dr. Caren S. Palese on behalf of AstraZeneca in the *Rieder* case;
8. Dr. Leonard-Segal on behalf of Takeda in the *Bales* case;
9. Dr. Jerry Hardisty on behalf of Takeda in the *Bales* case; and
10. Dr. Richard Hansen on behalf of Takeda in the *Bales* case.

AstraZeneca moved to exclude testimony by certain plaintiffs' experts:

1. Dr. David Ross on behalf of the plaintiffs in all six Bellwether Trial Cases;⁹
2. Dr. Gilbert Moeckel on behalf of the plaintiffs in all six Bellwether Trial Cases;¹⁰

⁹ AstraZeneca's Mot. to Exclude Op. Test. from Dr. David Ross Under Federal Rule of Evid. 702, *as filed in Bales, Foster, Kersch, Lee, Nelson, & Rieder*, No. 2:19-cv-00850, ECF No. 33 [hereinafter AstraZeneca's Mot. to Exclude Ross]. For ease of reference, this R&R will only cite to one of the parallel motions filed on the individual dockets of multiple Bellwether Trial Cases.

¹⁰ AstraZeneca's Mot. to Exclude Op. Test. from Dr. Gilbert Moeckel Under Federal Rule of Evid. 702, *as filed in Bales, Foster, Kersch, Lee, Nelson, & Rieder*, No. 2:19-cv-00850, ECF No. 38 [hereinafter AstraZeneca's Mot. to Exclude Moeckel].

3. Dr. Burt Gerstman on behalf of the plaintiffs in all six Bellwether Trial Cases;¹¹
4. Dr. Wajahat Mehal on behalf of the plaintiffs in the *Bales*, *Foster*, *Lee*, *Nelson*, and *Rieder* cases;¹²
5. Dr. Martin Wells on behalf of the plaintiffs in all six Bellwether Trial Cases;¹³
6. Dr. David Charytan on behalf of the plaintiff in the *Rieder* case;¹⁴
7. Dr. Derek Fine's case specific causation testimony on behalf of the plaintiff in the *Rieder* case;¹⁵
8. Dr. Jeffrey Silberzweig on behalf of the plaintiffs in the *Foster* and *Kersch* cases;¹⁶
9. Dr. David Powers on behalf of the plaintiffs in the *Bales* and *Lee* cases;¹⁷ and

¹¹ AstraZeneca's Mot. to Exclude Op. Test. from Pls.' General Causation Experts Under Federal Rule of Evid. 702, *as filed in Bales, Foster, Kersch, Lee, Nelson, & Rieder*, No. 2:19-cv-00850, ECF No. 37 [hereinafter AstraZeneca's Mot. to Exclude Pls.' General Causation Experts].

¹² AstraZeneca's Mot. to Exclude General Causation Experts.

¹³ AstraZeneca's Mot. to Exclude Op. Test. from Dr. Martin Wells Under Federal Rule of Evid. 702, *as filed in Foster, Kersch, Lee, Nelson, & Rieder*, No. 2:19-cv-00850, ECF No. 34 [hereinafter AstraZeneca's Mot. to Exclude Wells].

¹⁴ AstraZeneca's Mot. to Exclude Pls.' General Causation Experts.

¹⁵ AstraZeneca's Mot. to Exclude Op. Test. From Pls.' Specific Causation Experts Under Federal Rule of Evid. 702, *as filed in Bales, Foster, Kersch, Lee, Nelson, & Rieder*, No. 2:19-cv-00850, ECF No. 35 [hereinafter AstraZeneca's Mot. to Exclude Pls.' Specific Causation Experts].

¹⁶ AstraZeneca's Mot. to Exclude Pls.' General Causation Experts; AstraZeneca's Mot. to Exclude Pls.' Specific Causation Experts.

¹⁷ AstraZeneca's Mot. to Exclude Pls.' General Causation Experts; AstraZeneca's Mot. to Exclude Pls.' Specific Causation Experts.

10. Dr. Richard Lafayette on behalf of the plaintiff in the *Nelson* case.¹⁸

AstraZeneca also moved to disqualify Dr. Gilbert Moeckel from testifying in the six Bellwether Trial Cases.¹⁹

Takeda moved to exclude the testimony by Dr. David Ross²⁰ and Dr. Gilbert Moeckel²¹ in the *Bales* case. AstraZeneca and Takeda jointly moved to exclude the testimony of Dr. Martin Wells in the *Bales* case.²²

On March 25, 2022, counsel for AstraZeneca, Takeda, and the PSC submitted a joint report withdrawing certain motions and narrowing the issues or waiving oral argument as to certain motions.²³ The PSC withdrew its motion to exclude the testimony of Dr. Pinto-Martin, and AstraZeneca withdrew its motion to exclude the testimony of Dr. Gerstman.²⁴ This R&R addresses certain of the parties' *Daubert* motions, where applicable as amended by the March 25, 2022 report. This R&R does not address experts Dr. Opraseuth, Dr. Hansen, Dr.

¹⁸ AstraZeneca's Mot. to Exclude Pls.' Specific Causation Experts.

¹⁹ AstraZeneca's Mot. to Disqualify Dr. Gilbert Moeckel, *as filed in Bales, Foster, Kersch, Lee, Nelson, & Rieder*, No. 2:19-cv-00850, ECF No. 36.

²⁰ Takeda's Mot. to Exclude Test. of Dr. David Ross, No. 2:17-cv-06124, ECF No. 77.

²¹ Takeda's Mot. to Exclude Expert Test. of Dr. Gilbert Moeckel, No. 2:17-cv-06124, ECF No. 80.

²² Defs' Mot. to Exclude Op. Test. from Dr. Martin Wells Under Federal Rule of Evid. 702, No. 2:17-cv-06124, ECF No. 76.

²³ Joint Report to the Special Master Re *Daubert* Mot. Oral Args., attached as Ex. 2.

²⁴ Joint Report to the Special Master Re *Daubert* Mot. Oral Args. ¶ 1.

Hardisty, Dr. Powers, Dr. Silberzweig, Dr. Lafayette, and Dr. Leonard-Segal, all of whom are designated in cases other than *Rieder*.²⁵

This R&R first reviews the legal standard set forth in Federal Rule of Evidence 702 and *Daubert* and the Third Circuit's application thereof. It then contains recommendations regarding *Daubert* motions made by the PSC, followed by recommendations regarding *Daubert* motions made by AstraZeneca and Takeda, as well as a recommendation regarding AstraZeneca's motion to disqualify Dr. Moeckel.

II. OVERVIEW OF RELEVANT LEGAL STANDARD

Federal Rule of Evidence 702 provides that:

A witness who is qualified as an expert by knowledge, skill, experience, training, or education may testify in the form of an opinion or otherwise if:

- (a) the expert's scientific, technical, or other specialized knowledge will help the trier of fact to understand the evidence or to determine a fact in issue;
- (b) the testimony is based on sufficient facts or data;
- (c) the testimony is the product of reliable principles and methods; and
- (d) the expert has reliably applied the principles and methods to the facts of the case.

²⁵ I will address the *Daubert* motions to exclude the testimony of Dr. Opraseuth, Dr. Dr. Hansen, Dr. Hardisty, Dr. Powers, Dr. Silberzweig, and Dr. Lafayette in separate Report & Recommendations. With respect to Dr. Leonard-Segal, I submitted a Report & Recommendation on June 17, 2022, recommending that the PSC's *Daubert* motion be held in abeyance pending resolution of the PSC's motion to disqualify her. No. 2:17-cv-06124, ECF No. 114.

A district court serves a “gatekeeping” function under Rule 702 concerning expert testimony and must ensure that any expert testimony is both relevant and reliable before allowing its admission.²⁶ The ultimate goal of this analysis is to ensure that the trier of fact is presented only with reliable testimony that will help it understand the evidence or determine the relevant facts.²⁷ The burden of proof that the expert’s testimony will be both reliable and relevant rests on the party offering the expert testimony.²⁸

The Third Circuit applies Rule 702 and *Daubert* through a “trilogy of restrictions” on admission of expert testimony, examining the qualifications of the expert, the reliability of the expert’s opinion, and the fit of the expert’s opinion to the issues presented in the particular case.²⁹ First, the expert may be qualified through “a broad range of knowledge, skills, and training[.]”³⁰ Second, the expert’s testimony must be reliable and based on the “methods and procedures of science” rather than on “subjective belief or unsupported speculation.”³¹ Third, the testimony must fit the particular case “as a precondition to admissibility,”

²⁶ *Daubert*, 509 U.S. at 589.

²⁷ *In re: Zolofit (Sertraline Hydrochloride) Prods. Liab. Litig.*, 858 F.3d 787, 800 (3d Cir. 2017).

²⁸ *In re Johnson & Johnson Talcum Powder Prods. Mktg., Sales Practices & Prods Litig.*, 509 F. Supp. 3d 116, 147-48 (D.N.J. 2020) (citing *Crowley v. Chait*, 322 F. Supp. 2d 530, 537 (D.N.J. 2004)).

²⁹ *Schneider ex rel. Estate of Schneider v. Fried*, 320 F.3d 396, 404 (3d Cir. 2003).

³⁰ *In re Paoli R.R. Yard PCB Litig.*, 35 F.3d 717, 741 (3d Cir. 1994).

³¹ *Daubert*, 509 U.S. at 590.

demonstrated by a “valid scientific connection” between the testimony and the issues presented in a particular case.³²

The Third Circuit has recognized that, in performing its critical gatekeeping function under *Daubert* with respect to expert testimony, a trial court must bear in mind “the preference for admissibility of the Federal Rules of Evidence” and avoid excluding expert evidence solely because the court does not think it is ultimately the most persuasive evidence.³³ This preference for admissibility offsets the risk that a trial judge may interpret the “amorphous” reliability standard too strictly.³⁴

A. Qualifications

The Third Circuit reads the qualification requirement broadly and interprets it liberally.³⁵ To satisfy the qualification requirement, an expert must possess specialized knowledge in the area of testimony.³⁶ An expert may be qualified by a “broad range of knowledge, skills, and training[,]” including both academic credentials and practical experience.³⁷ This policy does not require that an expert possess the best formal or substantive qualifications, and more generalized qualifications are satisfactory.³⁸

³² See *id.* at 591-92; *Paoli*, 35 F.3d at 742-43.

³³ See *Paoli*, 35 F.3d at 750.

³⁴ *Id.*

³⁵ *Pineda v. Ford Motor Co.*, 520 F.3d 237, 244 (3d Cir. 2008).

³⁶ *Waldorf v. Shuta*, 142 F.3d 601, 625 (3d Cir. 1998).

³⁷ *Pineda*, 520 F.3d at 244 (quoting *Paoli*, 35 F.3d at 741).

³⁸ See *Pineda* at 244; *Paoli*, 35 F.3d at 741.

Courts have applied these standards to specific disciplines. Physicians, for example, do not need to be highly specialized in the area on which they are to testify or treat patients with the medical condition or symptom in question for their expert testimony to be admissible; the quality and depth of their qualifications goes to the credibility and weight to be accorded their testimony.³⁹ Physicians who are serving as experts, however, must demonstrate some minimal relevant knowledge and experience.⁴⁰ Similarly, biostatisticians are not required to be specialists in the subject matter to which they apply their statistical methodologies.⁴¹ With respect to Food and Drug Administration (“FDA”) experts, courts have ruled that their regulatory training and experience while at the agency, coupled with their other professional credentials, are sufficient to qualify them to testify on regulatory topics.⁴²

³⁹ See *Paoli*, 35 F.3d at 753 (“We hold that Dr. Sherman, while arguably a relatively poor clinician and less than fully credible witness, qualifies as an expert.”).

⁴⁰ See *Diaz v. Johnson Matthey, Inc.*, 893 F. Supp. 358, 372-73 (D.N.J. 1995) (excluding testimony of a pulmonologist who had never treated a patient with the particular respiratory condition at issue, was unfamiliar with the literature on the condition, and lacked any additional qualifications that would render the pulmonologist’s testimony helpful in other ways).

⁴¹ See *Hospira, Inc. v. Amneal Pharms., LLC*, 285 F. Supp. 3d 776, 811 (D. Del. 2018) (allowing a biostatistician to offer a statistical analysis of drug formulation because it fell “squarely within his realm of expertise[,]” even though he was not an expert on drug development).

⁴² *Wolfe v. McNeil-PPC, Inc. (Wolfe I)*, 881 F. Supp. 2d 650, 658 (E.D. Pa. 2012); *Terry v. McNeil-PPC, Inc. (In re Tylenol (Acetaminophen) Mktg., Sales Practices, & Prods. Liab. Litig.) (Terry I)*, No. 2:12-cv-07263, 2016 U.S. Dist. LEXIS 99177, at *17 (E.D. Pa. July 28, 2016).

B. Reliability

The reliability inquiry looks at the scientific validity of the methodology underlying the expert's opinion.⁴³ An expert's opinion is reliable if it is "based on the 'methods and procedures of science' rather than on 'subjective belief or unsupported speculation'; the expert must have 'good grounds' for his or her belief."⁴⁴ The expert's testimony "must be derived by the scientific method" and "supported by appropriate validation -- *i.e.*, 'good grounds,' based on what is known."⁴⁵

Both the methodology and its application must be reliable for the testimony to be admissible.⁴⁶ To determine the reliability of expert testimony, the court must make a "preliminary assessment of whether the reasoning or methodology underlying the testimony is scientifically valid and of whether that reasoning or methodology properly can be applied to the facts in issue."⁴⁷ Pursuant to *Daubert* and its Third Circuit progeny, the trial court should consider eight key factors when making this determination:

"(1) whether a method consists of a testable hypothesis; (2) whether the method has been subject to peer review; (3) the known or potential rate of error; (4) the existence and maintenance of standards controlling the technique's operation; (5) whether the method is generally accepted; (6) the relationship of the technique to methods which have been established to be reliable; (7) the qualifications of the expert witness

⁴³ See *Paoli*, 35 F.3d at 742; *Schneider*, 320 F.3d at 404.

⁴⁴ *Paoli*, 35 F.3d at 742.

⁴⁵ *Daubert*, 509 U.S. at 590.

⁴⁶ *In re: Zolof*, 858 F.3d at 792.

⁴⁷ *Daubert*, 509 U.S. at 592.

testifying based on the methodology; and (8) the non-judicial uses to which the method has been put.”⁴⁸

This list of factors is non-exhaustive and may not be applicable in every case.⁴⁹

An expert must, at a minimum, identify the methodology or procedures used or explain how the conclusions were reached by that expert.⁵⁰ The reliability standard requires some showing of methodological soundness and consistency. Additionally, the data and materials considered by the expert must be available.⁵¹ Both the methodology and its application must be reliable for the testimony to be admissible.⁵² If any step in the expert’s methodology or analysis is unreliable, the whole testimony based on that analysis is inadmissible.⁵³ Further, if the expert chooses to employ a non-standard methodology or applies the chosen methodology unevenly, the expert must thoroughly explain the decision to do so.⁵⁴

⁴⁸ *Elcock v. Kmart Corp.*, 233 F.3d 734, 745-46 (3d Cir. 2000) (citing *Paoli*, 35 F.3d at 742 n.8).

⁴⁹ *See Kannankeril v. Terminix Int’l*, 128 F.3d 802, 806-07 (3d Cir. 1997); *see also Paoli*, 35 F.3d at 742 (“*Daubert* . . . indicates that the inquiry as to whether a particular scientific technique or method is reliable is a flexible one.”).

⁵⁰ *See Sikkelee v. Precision Airmotive Corp.*, 522 F. Supp. 3d 120, 158 (M.D. Pa. 2021) (“[R]elying on an expert’s *ipse dixit* alone does not ensure that reliable principles and methods were used. Because [the expert] provides nothing else, the Court cannot allow the jury to hear this testimony.”); *Buzzerd v. Flagship Carwash of Port St. Lucie Inc.*, 669 F. Supp. 2d 514 (M.D. Pa. 2009) (a mechanic’s failure to articulate any methodology by which to assess carbon monoxide accumulation rendered the method untestable).

⁵¹ *In re Johnson & Johnson Talcum Powder*, 509 F. Supp. 3d at 155.

⁵² *In re: Zolofit*, 858 F.3d at 795-96.

⁵³ *Id.* at 800.

⁵⁴ *In re: Zolofit*, 858 F.3d at 797-99.

The reliability prong is satisfied so long as the expert’s opinion “reliably flow[s] from th[e] methodology and the facts at issue[.]”⁵⁵ The party seeking to admit expert testimony must prove only that the testimony is reliable, not prove to the court by a preponderance of the evidence that the expert’s conclusion is correct.⁵⁶ The opinion does not need to have the strongest evidentiary foundation or be “supported by the best methodology or unassailable research” to survive a *Daubert* motion.⁵⁷ Nor must it rely on published, peer-reviewed studies, although such reliance is one indicium of reliability.⁵⁸ Surface-level flaws relating to methodology may be reserved for cross-examination, though ““there will be occasions when the proffered [expert evidence] is so flawed’ that it is ‘completely unhelpful to the trier of fact’ and ‘its probative value is substantially outweighed by its prejudicial effect.’”⁵⁹ In short, “the reliability requirement must not be used as a tool by which the court excludes all questionably reliable evidence.”⁶⁰

⁵⁵ *Heller v. Shaw Indus., Inc.*, 167 F.3d 146, 152 (3d Cir. 1999).

⁵⁶ *In re TMI Litig.*, 193 F.3d 613, 665 (3d Cir. 1999).

⁵⁷ *Id.*

⁵⁸ *See Heller*, 167 F.3d at 154; *In re TMI Litig.*, 193 F.3d at 663-64.

⁵⁹ *Bruno v. Buzzuto’s, Inc.*, No. 3:09-cv-874, 2015 U.S. Dist. LEXIS 156339, at *140 (M.D. Pa. Nov. 19, 2015) (quoting *Malletier v. Dooney & Bourke, Inc.*, 525 F. Supp. 2d 558, 563 (S.D.N.Y. 2007)).

⁶⁰ *Paoli*, 35 F.3d at 744 (quoting *In re Paoli R.R. Yard PCB Litig.*, 916 F.2d 829 (3d Cir. 1990)).

Exclusion is appropriate only if the flaw in the methodology is “large enough that the expert lacks ‘good grounds’ for his or her conclusions.”⁶¹ Even if the judge believes “there are better grounds for some alternative conclusion,” and there are some flaws in the scientist’s methods, if there are “good grounds” for the expert’s conclusion, it should be admitted.⁶² The testimony may be “tested by the adversary process—competing expert testimony and active cross-examination—rather than excluded from jurors’ scrutiny for fear that they will not grasp its complexities or satisfactorily weigh its inadequacies.”⁶³

With respect to medical experts, a physician’s highly specialized academic and professional qualifications in the area on which that expert is to testify favor a finding of reliability.⁶⁴ Where a medical expert opines with respect to causation of a plaintiff’s illness, the “medical expert’s causation conclusion should not be

⁶¹ See *Paoli*, 35 F.3d at 746; *Hoffeditz v. AM General*, No. 09-0257, 2017 U.S. Dist. LEXIS 123493, at *13-14 (D.N.J. Aug. 4, 2017) (noting that studies relied upon by challenged expert were subject to legitimate criticism from opposing party’s experts but finding that such contradictions were appropriately addressed through cross-examination, not exclusion).

⁶² See *Paoli*, 35 F.3d at 746; *Heller*, 167 F.3d at 153.

⁶³ *United States v. Mitchell*, 365 F.3d 215, 244 (3d Cir. 2004) (citing *Ruiz-Troche v. Pepsi Cola Bottling Co.*, 161 F.3d 77, 85 (1st Cir. 1998)); *Daubert*, 509 U.S. at 596 (“Vigorous cross-examination, presentation of contrary evidence, and careful instruction on the burden of proof are the traditional and appropriate means of attacking shaky but admissible evidence.”); see also *Heller*, 167 F.3d at 152.

⁶⁴ See *Schneider*, 320 F.3d at 407; see also *Keller v. Feasterville Fam. Health Care Ctr.*, 557 F. Supp. 2d 671, 677 (E.D. Pa. 2008) (admitting expert testimony about Alzheimer’s Disease when the testifying physician was a well-respected expert in the field of neurodegenerative diseases).

excluded because he or she has failed to rule out every possible alternative cause of a plaintiff's illness.”⁶⁵

Courts have similarly found FDA regulatory expert testimony reliable when FDA experts rely on and apply the same methods used in their work at FDA with regard to regulation of drug approval and labeling.⁶⁶ Indeed, with regard to FDA experts testifying on regulatory issues, courts have found their experience at the agency to be particularly valuable, especially when coupled with additional industry or academic experience.⁶⁷ Questions regarding an FDA regulatory expert's methodology as to opinions on regulatory issues go to weight, not admissibility.⁶⁸

⁶⁵ See *Heller*, 167 F.3d at 156; see also *Paoli*, 35 F.3d at 758-60 (applying flexible reliability standard and reversing district court's exclusion of physician testimony on differential diagnosis based solely on review of patient's medical records).

⁶⁶ In *Terry v. McNeil-PPC, Inc. (In re Tylenol (Acetaminophen) Mktg., Sales Practices, & Prods. Liab. Litig.) (Terry II)*, No. 2:12-cv-07263, 2016 U.S. Dist. LEXIS 117594, at *20 (E.D. Pa. Aug. 31, 2016), for example, the court found that any questions regarding the FDA expert's methodology went to weight, not admissibility. (“By all accounts, Dr. Jones’ actual methods—reviewing and deciphering the information contained in documents provided her based on her professional experience—are reliable ways of reaching opinions about industry standards and the use of AERs.”); see also *Johns v. CR Bard (In re Davol, Inc./C.R. Bard, Inc., Polypropylene Hernia Mesh Prods. Liab. Litig.)*, No. 2:18-cv-01509, 2021 U.S. Dist. LEXIS 143187, at *436 (S.D. Ohio Aug. 1, 2021) (stating that an expert's opinions were sufficiently reliable where her methodology was the one she was trained to use at the FDA); *Lemmon v. Wyeth. LLC*, No. 4:04-cv-01302, 2012 U.S. Dist. LEXIS 95924, at *27 (E.D. Mo. July 11, 2012) (admitting expert testimony regarding the drug approval process and analysis of the adequacy of the labeling because it was based upon specialized knowledge of the regulatory procedures, pharmaceutical labeling, and FDA standards and practice).

⁶⁷ See *Wolfe I*, 881 F. Supp. 2d at 650; *Terry I*, 2016 U.S. Dist. LEXIS 99177, at *4.

⁶⁸ See, e.g., *Terry II*, 2016 U.S. Dist. LEXIS 117594, at *20.

C. Fit

Expert testimony must fit the particular case and help the trier of fact understand the evidence or determine a fact in issue. This fit requirement speaks to the relevance of the expert opinion. “[A] valid scientific connection to the pertinent inquiry [is] a precondition to admissibility.”⁶⁹ The standard is “not that high” but is “higher than bare relevance.”⁷⁰ Even if the opinion is reliable, “scientific validity for one purpose is not necessarily scientific validity for other, unrelated purposes.”⁷¹ Expert testimony may fit even though it does not directly relate to the main legal issue. Scientific or medical expert testimony is not inherently unhelpful or confusing for the trier of fact simply because it is complex.⁷²

III. PLAINTIFFS’ MOTIONS

A. Dr. Marianne Mann⁷³

AstraZeneca seeks to offer expert testimony by Dr. Marianne Mann on the adequacy of the warnings provided by AstraZeneca for Nexium with regard to renal

⁶⁹ *Daubert*, 509 U.S. at 592.

⁷⁰ *Paoli*, 35 F.3d at 745.

⁷¹ *Daubert*, 509 U.S. at 591.

⁷² *Keller*, 557 F. Supp. 2d at 679.

⁷³ As I disclosed during oral arguments, I worked with Dr. Mann years ago when I was a partner at Arnold & Porter and was representing American Home Products Inc. and Wyeth Pharmaceuticals in connection with the Diet Drug Litigation. Oral Args. 8:11-17, Apr. 4, 2022 (“One thing . . . I wanted to raise just in the way of full disclosures upfront . . . I don’t know any of these experts personally except one who I did meet years ago, somewhere between 15 and 20 years ago, and that’s [Marianne] Mann, and I think I had one meeting with her in connection with a case I was working on at the time.”).

impairment and the appropriateness of FDA's decisions regarding the Nexium labeling. The PSC's motion to exclude Dr. Mann's opinion testimony rests upon two of the three criteria applied in the Third Circuit: qualifications and reliability. Specifically, the PSC argues that Dr. Mann is "unqualified to render an opinion on the causal association between PPIs and kidney injury" and that her testimony is unreliable because she lacks basic knowledge of FDA regulations and has not independently reviewed source data, instead relying on summaries prepared by FDA and the New Drug Application ("NDA") sponsor.⁷⁴ For the reasons discussed below, I recommend that this motion be denied.

1. Qualifications

Dr. Mann received an M.D. from the Medical College of Pennsylvania, completed her residency in internal medicine at Albert Einstein Medical Center and the University of Connecticut Health Center, and completed a fellowship in pulmonary and critical care medicine at the University of Connecticut Health Center.⁷⁵ She is currently board-certified in internal medicine and was previously board-certified in pulmonary care medicine and critical care medicine.⁷⁶

⁷⁴ PSC's Mem. in Supp. of Pls.' Omnibus *Daubert* Mot. to Exclude Defense Experts 10-13, ECF No. 703 [hereinafter PSC's Omnibus Mem.].

⁷⁵ PSC's Omnibus Mem., Ex. 1 [hereinafter Mann Expert Report] at 1, ECF No. 703-1.

⁷⁶ Mann Expert Report, App. A.

Prior to joining FDA in 1994, Dr. Mann was a practicing physician with a specialty in pulmonary care from 1992-1994 and was a volunteer staff pulmonologist at National Naval Medical Center from 1994-2004. From 1994-2003, she held three positions at FDA: Medical Officer in the Division of Antiviral Drug Products/Division of Special Pathogens and Immunologic Drug Products, Deputy Director of the Division of Reproductive and Urologic Drug Products, and Deputy Director of the Division of Pulmonary and Allergy Drug Products.⁷⁷

Dr. Mann's work at FDA included: reviewing clinical data and making approval recommendations for Investigational New Drug Applications ("INDs") and NDAs; participating in decisions on whether to put a study on hold; leading labeling discussions both with NDA sponsors and within the agency and addressing labeling changes; and managing safety issues that arose with products in both the pre-approval phase and during post-marketing experience. Dr. Mann summarizes her experience as follows: "[i]n total, I have had nine years of FDA experience in three different review divisions, including experience making final regulatory decisions, many of which concerned safety, about a wide variety of medications."⁷⁸ Dr. Mann received awards in recognition of her work at FDA, including: DHHS Secretary's Award for Distinguished Service, FDA Award of Merit, two FDA

⁷⁷ Mann Expert Report, App. A.

⁷⁸ Mann Expert Report 2.

Commendable Service Awards, and the Center for Drug Evaluation and Research's ("CDER") Excellence in Communication Award.⁷⁹

From 2003-2004, Dr. Mann served as Branch Chief in the Respiratory Disease Branch Division of Microbiology and Infectious Disease at the National Institute of Health ("NIH") and since then has been a private consultant working on clinical and regulatory drug development.⁸⁰

The PSC does not challenge Dr. Mann's qualifications generally. Instead, the PSC argues that Dr. Mann is not qualified to offer opinions on medical causation – whether and to what extent PPIs cause renal impairment. This argument is contrary to both the facts and the law.

First, AstraZeneca has made clear that it is not offering Dr. Mann as a medical causation expert. This appears consistent with her report, which focuses on regulatory history, regulatory decision-making, and the use of clinical and post-marketing surveillance data to inform labeling decisions. To support her opinions on these topics, Dr. Mann necessarily needed to review, analyze, and interpret data pertinent to whether and to what extent there is an association between PPI use and renal impairments. For example, she considers whether there were data sufficient, in her opinion as a former FDA officer, to constitute a signal of an association and/or to warrant a labeling change.

⁷⁹ Mann Expert Report, App. A.

⁸⁰ Mann Expert Report 2.

Dr. Mann is trained in internal medicine and, while at FDA, reviewed and analyzed pre-clinical and clinical trial data, adverse event data, and product labeling.⁸¹ The fact that she is not holding herself out as an expert in nephrology does not mean that she is incapable of providing expert opinions about the data related to the association, if any, between PPI use and renal impairment and what, if anything, those data mean for labeling decisions. Review of data to assess risk and potential association is what senior FDA pharmaceutical regulators such as Dr. Mann do. Even if Dr. Mann had been offered to give testimony as to general medical causation in this case, she would be sufficiently qualified to do so under the liberal Third Circuit standard.

The PSC takes a few statements made at Dr. Mann's deposition out of context to attack her qualifications. First, she testified that she did not know specifically how long chronic kidney disease ("CKD") takes to develop, but knew it was a long process.⁸² The PSC argues that this statement alone renders her "unqualified to give an expert medical opinion on whether a drug is associated with chronic kidney disease."⁸³ Perhaps if she were being offered to testify as to specific causation, her lack of specific knowledge would be a cause for concern, although even that is doubtful under the liberal Third Circuit standard.⁸⁴ It is certainly not an obstacle to her testimony here,

⁸¹ Mann Expert Report 1.

⁸² PSC's Omnibus Mem., Ex. 2 at 123:3-14 [hereinafter Mann Dep.], ECF No. 703-2.

⁸³ PSC's Omnibus Mem. 11.

⁸⁴ *See Wolfe v. McNeil-PPC, Inc. (Wolfe II)*, No. 07-348, 2011 U.S. Dist. LEXIS 47710, at *13 (E.D. Pa. May 3, 2011).

where she is being proffered to testify about data analysis concerning the potential association of PPIs with renal impairment from a regulatory perspective.⁸⁵

Similarly, the PSC's citation of a statement in Dr. Mann's deposition that it is not her area of expertise to make individual case specific assessments of causation has no bearing on her qualification to testify as a regulatory expert. She is not being offered by AstraZeneca as a case specific causation expert.

2. Reliability

The PSC further argues that Dr. Mann's testimony is not reliable. First, the PSC argues that Dr. Mann "lacks basic knowledge of the regulations on which she claims to be an expert."⁸⁶ For this proposition, the PSC cites one response to a question in Dr. Mann's deposition in which she says that she has not reviewed enough adverse reaction sections of product labeling to say whether a company is permitted to add more detail to them. This one sentence, taken out of context, ignores her nine years of experience at FDA working on labeling and safety issues for multiple products. In context, the sentence appears to reflect a "thinking out loud" approach to a very specific question. She later went on to say that "[she doesn't] think being . . . in the adverse reactions section precludes adding slight

⁸⁵ *Lemmon*, 2012 U.S. Dist. LEXIS 95924, at *27 (finding that expert testimony regarding the drug approval process and analysis of the adequacy of product labeling was admissible because it was based upon specialized knowledge of the regulatory procedures, pharmaceutical labeling, and FDA standards and practices).

⁸⁶ PSC's Omnibus Mem. 12.

additional detail at times.”⁸⁷ If the PSC believes that this point is relevant to any issue at trial, she can be cross-examined about it, but it hardly forms a basis to exclude her testimony.

Second, the PSC argues that because some of the materials Dr. Mann reviewed were summaries prepared by AstraZeneca or regulatory agencies, her methodology is unreliable. In support of this argument, the PSC points to several data points that it claims were excluded by AstraZeneca from its submission to the European Medicines Agency’s Pharmacovigilance Risk Assessment Committee (“PRAC”), which Dr. Mann reviewed and about which she offered opinions.⁸⁸ More generally, the PSC criticizes her reliance on internal FDA reports – a type of document with which, as a former FDA officer, she has significant familiarity – because she could not say what information had been omitted from them. If the PSC’s position is that no expert can ever rely on an agency report, a summary of data, or even a published article without going back and looking at all the source data, that is an extreme position that does not reflect the state of the law in the Third Circuit. To the extent the PSC wants to highlight any limits on the scope of data that Dr. Mann reviewed, the PSC may do so through cross-examination.

⁸⁷ Mann Dep. 112:13-16.

⁸⁸ PSC’s Omnibus Mem. 13-15.

Finally, the PSC asserts that Dr. Mann's finding that AstraZeneca's conduct and certain labeling decisions were reasonable should be excluded because she "offers no yardstick by which her opinions . . . can be verified, tested and measured."⁸⁹ Again, that is not the law as to reliability of expert regulatory opinions. To the contrary, courts have found testimony of FDA regulatory experts to be reliable when the expert applies the same methodology used in the expert's work at FDA.⁹⁰

3. Fit

The PSC does not challenge the fit of Dr. Mann's testimony, and there is no basis in the record to question the fit of her testimony.

B. Dr. Janice Lansita

AstraZeneca seeks to offer the testimony of toxicologist Dr. Janice Lansita, who opines that the "esomeprazole bridging studies met the criteria and requirements outlined in FDA guidance on new stereoisomers (1992) as referenced by FDA in the esomeprazole Pre-IND meeting minutes (1997)."⁹¹ Dr. Lansita also stated in her report that the scientific principles for the bridging studies and toxicology study designs have not materially changed, and thus omeprazole and esomeprazole would

⁸⁹ PSC's Omnibus Mem. 18.

⁹⁰ See, e.g., *Terry II*, 2016 U.S. Dist. LEXIS 117594, at *20; *Johns*, 2021 U.S. Dist. LEXIS 143187, at *436; *Lemmon*, 2012 U.S. Dist. LEXIS 95924, at *27.

⁹¹ PSC's Omnibus Mem., Ex. 13 [hereinafter Lansita Expert Report] at 1, ECF No. 703-13.

likely be approved by FDA today.⁹² Her report also included a sentence regarding the cost of developing a drug from discovery to marketing.⁹³ The PSC moved to exclude Dr. Lansita's testimony and asserts that Dr. Lansita is not qualified to opine on chronic progressive nephropathy ("CPN") and whether CPN is relevant to humans; Dr. Lansita is not qualified to opine on the cost of developing esomeprazole and/or the cost of drug development generally; and Dr. Lansita cannot provide a reliable opinion on whether the FDA would likely approve Prilosec or Nexium today.⁹⁴

AstraZeneca subsequently stipulated that it does not oppose the PSC's motion "[t]o the extent Plaintiffs seek to prevent Dr. Lansita from offering an opinion on the pathological criterion or significance of [CPN] to humans"⁹⁵ and that it does not oppose the PSC's motion "[t]o the extent Plaintiffs seek to prevent Dr. Lansita from offering an opinion on the historical cost of bringing Prilosec or Nexium to market[.]"⁹⁶

For the reasons set forth below, I recommend that the Court grant the PSC's motion in part and deny it in part. I recommend that:

- the PSC's motion be granted to the extent it seeks to prevent Dr. Lansita from offering an opinion on the pathological criterion or significance of CPN to humans, per the stipulation by AstraZeneca, and that it be

⁹² Lansita Expert Report 14.

⁹³ Lansita Expert Report 1.

⁹⁴ PSC's Omnibus Mem. 43.

⁹⁵ Joint Report to the Special Master Re *Daubert* Mot. Oral Args. ¶ 6.

⁹⁶ Joint Report to the Special Master Re *Daubert* Mot. Oral Args. ¶ 7.

denied to the extent it otherwise seeks to prevent Dr. Lansita from offering her opinion on the nonclinical studies she reviewed;

- the PSC's motion be granted to the extent it seeks to prevent Dr. Lansita from offering an opinion on the historical cost of bringing Nexium or Prilosec to market, per the stipulation by AstraZeneca;
- the PSC's motion be granted to the extent it seeks to prevent Dr. Lansita from offering an opinion on the cost of bringing a drug to market generally;
- the PSC's motion be granted to the extent that it seeks to prevent Dr. Lansita from offering an opinion on whether PPIs would be approved by FDA today, but that it be denied to the extent it seeks to bar Dr. Lansita from opining on the sufficiency of the nonclinical studies to support FDA approval; and
- the PSC's motion be otherwise denied.

1. Qualifications

Dr. Lansita is a board-certified regulatory toxicologist with a B.A. in Biochemistry from Barnard College of Columbia University and a Ph.D. in Toxicology from the Massachusetts Institute of Technology ("MIT"). She worked as a regulatory toxicologist at Biogen, where she "learned to evaluate the toxicology of

novel drugs for first-in-human clinical trials.”⁹⁷ From 2009-2014, Dr. Lansita worked as a Pharmacologist/Toxicologist for FDA in the CDER Division of Special Pathogen and Transplant Products where she “reviewed numerous ... drug applications to determine if the nonclinical data were adequate to support drug safety in patients.”⁹⁸ From 2012-2014, she served as Co-Chair of the CDER Pharmacology/Toxicology Coordinating Committee Nonclinical Biologics Subcommittee, where she was responsible for “leading discussions relevant to the nonclinical review of biologics for a group of ~35 pharmacology/toxicology reviewers across Divisions in CDER[.]”⁹⁹ Dr. Lansita estimates that she reviewed over one hundred drug applications to determine whether the nonclinical data, including laboratory and animal studies, were adequate to support drug safety in patients, and if not, what additional nonclinical studies should be performed.¹⁰⁰ Since she left FDA in 2014, Dr. Lansita has “worked with numerous start-up, pharmaceutical, and biotechnology companies (>60) to provide advice on toxicology studies, design toxicology studies, oversee the conduct of toxicology studies at contract research organizations (CRO), analyze and interpret the data from these studies, and use these data to evaluate the nonclinical safety of new drugs for clinical development.”¹⁰¹

⁹⁷ Lansita Expert Report 1.

⁹⁸ Lansita Expert Report 1.

⁹⁹ Lansita Expert Report, App. C, 3.

¹⁰⁰ Lansita Expert Report 1.

¹⁰¹ Lansita Expert Report 1.

As noted above, AstraZeneca has conceded that it does not oppose the PSC's motion to exclude Dr. Lansita from offering an opinion on the pathological criterion or significance of CPN to humans, and that it does not oppose the PSC's motion to exclude Dr. Lansita from offering an opinion on the historical cost of bringing Nexium or Prilosec to market.¹⁰² The PSC challenges Dr. Lansita's qualifications on other grounds.

First, the PSC argues that Dr. Lansita is not qualified to testify about her evaluation of the nonclinical studies she reviewed and her interpretation of the results of those studies, including their discussion of CPN, because she is not an expert on kidney disease and relies upon the testimony of another defense expert regarding the pathology of CPN.¹⁰³ I believe that Dr. Lansita's work at FDA and in the private sector as a toxicology expert are sufficient for her to be qualified to opine on the results of the nonclinical studies she reviewed.¹⁰⁴ To the extent the PSC seeks to argue that Dr. Lansita's opinion should be given less weight because she is not a kidney disease expert, the PSC can do so through cross-examination at trial.

¹⁰² Joint Report to the Special Master Re *Daubert* Mot. Oral Args. ¶¶ 6, 7.

¹⁰³ PSC's Omnibus Mem. 44.

¹⁰⁴ I note that the PSC's position is somewhat inconsistent with the position of the PSC's counsel at oral argument, who noted that plaintiffs' expert Dr. Ross was qualified to opine on case reports, adverse event reports, and other evidence relevant to the review of a warning in a drug label, as that is often done at FDA by internal medicine doctors, not specialists such as cardiologists or nephrologists. Oral Args. 91:21-92:15, Apr. 4, 2022 ("they are not specifically limited to the fields that they may have been trained in and specialized in.").

Second, the PSC challenges Dr. Lansita's qualification to opine on the cost of bringing a drug to market generally, as well as with respect to Nexium and Prilosec specifically. Dr. Lansita acknowledged that she is not able to speak to how much it cost to bring Nexium or Prilosec to market.¹⁰⁵ AstraZeneca does not oppose the PSC's motion to exclude Dr. Lansita from testifying regarding the historical cost of bringing Nexium or Prilosec to market,¹⁰⁶ leaving only the question of whether she is qualified to offer an opinion as to the cost of bringing a drug to market generally. AstraZeneca argues that Dr. Lansita is qualified to opine on the cost of bringing a drug to market generally based on her work at FDA, as well as her work in private practice before and after her time at FDA, and her reliance on a report from PhRMA, a pharmaceutical industry trade association.¹⁰⁷ The record, however, reflects that Dr. Lansita's experience at FDA was, and in private practice was and is, focused on nonclinical data and studies. There is nothing in the record to suggest, and AstraZeneca does not argue, that Dr. Lansita has experience or training in the costs

¹⁰⁵ PSC's Omnibus Mem., Ex. 14 [hereinafter Lansita Dep.] at 84:13-21, ECF No. 703-14.

¹⁰⁶ Joint Report to the Special Master Re *Daubert* Mot. Oral Args. ¶ 7.

¹⁰⁷ AstraZeneca's Mem. of Law in Opp'n to Pls.' Omnibus *Daubert* Mot. to Exclude Defense Experts 34-35 [hereinafter AstraZeneca's Opp'n to PSC's Omnibus Mem.] ECF No. 734. "PhRMA represents the nation's leading biopharmaceutical research companies" and "strive[s] to conduct effective advocacy for public policies that encourage the discovery of important, new medicines for patients by biopharmaceutical research companies." See <https://phrma.org/About> (accessed June 24, 2022). AstraZeneca and Takeda are members of PhRMA. *Id.*

associated with bringing a drug to market in the United States to the extent those costs are not associated with the costs of the nonclinical studies and data with which she is familiar by experience. Accordingly, I recommend that Dr. Lansita be excluded from offering any testimony as to the cost of bringing a drug to market generally.

2. Reliability

The PSC asserts that Dr. Lansita should be prevented from opining on whether Nexium or Prilosec would be approved by FDA today because such an opinion would be unreliable and speculative.¹⁰⁸ While she offered that opinion in her expert report, at her deposition Dr. Lansita acknowledged that she had “not reviewed any of the clinical data and can’t offer an opinion” that the clinical data were sufficient.¹⁰⁹ Accordingly, I recommend that the motion be granted to the extent it would preclude Dr. Lansita from offering any opinion that clinical data were sufficient to justify FDA approval of Nexium or Prilosec.

This leaves the issue of whether Dr. Lansita may offer the narrower opinion she adopted at her deposition – that the nonclinical data she reviewed would be sufficient to support FDA approval today, as she “did not identify any gaps in the data package that would preclude approval.”¹¹⁰ Dr. Lansita’s narrowed opinion is based on her review of the nonclinical materials she identified and her experience,

¹⁰⁸ PSC’s Omnibus Mem. 48.

¹⁰⁹ Lansita Dep. 144:20-22.

¹¹⁰ Lansita Dep. 143:1-3.

including her time at FDA reviewing nonclinical studies and in the private sector.¹¹¹

As noted above, courts have found FDA regulatory expert testimony reliable when FDA experts rely on and apply the same methods used in their work at FDA with regard to regulation of drug approval and labeling.¹¹² Here, the PSC has not asserted that Dr. Lansita employed a different methodology than when she worked at FDA, or even in her experience in the private sector before or after her time at FDA. I recommend that the PSC's motion be denied to the extent it seeks to preclude Dr. Lansita from opining that, based on her experience at FDA, the nonclinical data she reviewed would be sufficient to support FDA approval today.

3. Fit

The PSC does not challenge the fit of Dr. Lansita's testimony, and there is no basis in the record to question the fit of her testimony.

C. Dr. Robert Gibbons

AstraZeneca proposes to present Dr. Robert Gibbons as a general causation expert to testify on "[t]he strengths and limitations of the scientific literature concerning proton pump inhibitors (PPIs) and chronic kidney disease (CKD)" and "[w]hether the available evidence supports a causal relationship between PPIs and

¹¹¹ Lansita Expert Report 1.

¹¹² *See, e.g., Terry II*, 2016 U.S. Dist. LEXIS 117594, at *20; *Johns*, 2021 U.S. Dist. LEXIS 143187, at *436; *Lemmon*, 2012 U.S. Dist. LEXIS 95924, at *27.

CKD.”¹¹³ The PSC seeks to exclude Dr. Gibbons’s testimony on two grounds: first, that Dr. Gibbons is not qualified to provide such testimony because he is a biostatistician, not an epidemiologist, and lacks specialized nephrology training;¹¹⁴ and second, that Dr. Gibbons’s methodology is unscientific and unreliable because it unreasonably excludes certain data and contains erroneous calculations.¹¹⁵ For the reasons set forth below, I recommend that the PSC’s motion be denied.

1. Qualifications

Dr. Gibbons is a professor of biostatistics at the University of Chicago with extensive experience developing statistical methods to analyze drug safety data.¹¹⁶ He has authored a book on statistics in drug safety and pharmacoepidemiology and hundreds of peer-reviewed papers.¹¹⁷ He is an elected member of the National Academy of Medicine (“NAM”) and the National Academy of Sciences (“NAS”), and he served for six years on the NAM Board on Health Sciences Policy.¹¹⁸

Although his principal focus in recent years has been on statistical analysis and pharmacoepidemiologic analysis with respect to psychoactive drugs, Dr.

¹¹³ PSC’s Omnibus Mem., Ex. 20 [hereinafter Amended Gibbons Expert Report] at 6, ECF No. 703-20.

¹¹⁴ PSC’s Omnibus Mem. 50.

¹¹⁵ PSC’s Omnibus Mem. 51-54.

¹¹⁶ Amended Gibbons Expert Report 4-5.

¹¹⁷ Amended Gibbons Expert Report 4, App. 2.

¹¹⁸ Amended Gibbons Expert Report 4.

Gibbons has experience with kidney-related research.¹¹⁹ He works with the NAM's Committee on Organ Transplantation on issues "focuse[d] heavily on kidney transplantation and chronic kidney disease" and performed other work involving kidney disease.¹²⁰ He also "reviewed a wide range of articles that describe the underlying background of chronic kidney disease."¹²¹

The PSC contends that, notwithstanding Dr. Gibbons's academic credentials and history of consulting work related to kidney disease, he lacks sufficient expertise to present his proposed statistical opinions regarding causation.¹²² In particular, the PSC notes that he is a biostatistician, not an epidemiologist, and, more importantly, that he has no specialized training in nephrology or gastroenterology.¹²³ The PSC argues that, as a result of his lack of training in nephrology, he does not have a sufficient understanding of the meaning of the data considered to reach accurate conclusions. For example, the PSC states that Dr. Gibbons did not know that acute interstitial nephritis ("AIN") is an acute kidney injury ("AKI") and that, therefore, his treatment of AIN and AKI as independent variables skews his analysis.¹²⁴

¹¹⁹ AstraZeneca's Opp'n to PSC's Omnibus Mem., Ex. T [hereinafter Gibbons Dep.] at 47:17-21, 49:9-11, 51:15-22, ECF No. 734-21.

¹²⁰ Gibbons Dep. 47:6-21.

¹²¹ Gibbons Dep. 206:10-12.

¹²² PSC's Omnibus Mem. 50-51.

¹²³ PSC's Omnibus Mem. 50.

¹²⁴ PSC's Omnibus Mem. 50.

The PSC's criticism that Dr. Gibbons is not a formally trained nephrologist or gastroenterologist should be rejected for two reasons. First, Dr. Gibbons's practical experience with the NAM and extensive academic training and credentials in biostatistics qualify him to offer an expert opinion on questions of statistics. Biostatisticians have expertise in statistics, data analysis, and data interpretation and do not need to be experts regarding the disease pathology or treatment being analyzed.¹²⁵ Such a requirement would set an unreasonably high bar for expert epidemiological and biostatistical testimony that has no support in Third Circuit precedent.¹²⁶

Second, the PSC's criticism is misplaced because it does not address the thrust of Dr. Gibbons's proposed testimony. His opinion evaluates the studies' methodologies and evidence of alleged causation from a statistical perspective. He considers the variables as defined in the studies, the methodological rigor of the studies, the potential role of confounding factors, and the quality of the statistical analysis of the studies. It is a statistical review and critique regarding the strength, or lack thereof, of suggested correlations as reflected in data, not an analysis of disease mechanisms and pathology. Such testimony is within his area of expertise.

¹²⁵ See *Hospira, Inc.*, 285 F. Supp. 3d at 811.

¹²⁶ See, e.g., *Waldorf*, 142 F.3d at 626 (“[O]rdinarily an otherwise qualified witness is not disqualified merely because of a lack of academic training.”); *Paoli*, 35 F.3d at 753.

To the extent that the PSC believes that Dr. Gibbons’s alleged lack of knowledge regarding kidney function and disease may affect the reliability of his opinions, counsel can engage in cross-examination to challenge his credibility and address what weight the jury should give his opinions.¹²⁷

2. Reliability

The PSC does not dispute that Dr. Gibbons used well-recognized, peer-reviewed statistical methods in developing his opinion. Rather, the PSC challenges Dr. Gibbons’s application of these methods, arguing that he erroneously analyzed the Bradford Hill criteria in assessing the causal link between PPIs and adverse renal events by misapplying “temporality” criteria and purportedly “cherry-picking” data from some of the studies.¹²⁸ The PSC also argues that Dr. Gibbons erroneously grouped data in his analysis.¹²⁹ Thus, it argues, these flaws in applying his methodology render his opinion unreliable.¹³⁰

a. Dr. Gibbons’s Reliability as to His Evaluations of Other Studies

A careful review of the criticisms in the PSC’s brief, Dr. Gibbons’s Amended Report, and the relevant deposition testimony does not support the conclusion that Dr.

¹²⁷ See *U.S. v. Mitchell*, 365 F.3d at 244-45.

¹²⁸ PSC’s Omnibus Mem. 51-55.

¹²⁹ PSC’s Omnibus Mem. 56.

¹³⁰ See PSC’s Omnibus Mem. 56; *In re: Zolof*, 858 F.3d at 795 (noting that both the expert’s methodology and its application must be reliable for the testimony to be admissible).

Gibbons's application of the Bradford Hill criteria is unreliable. Dr. Gibbons's analysis takes into account the potential confounding factors present in the non-randomized trial literature upon which the PSC relies, and he evaluates those studies to determine whether such confounding factors affect the reliability of those studies.¹³¹ Dr. Gibbons's discussion of body mass index ("BMI") as a risk factor for CKD comes in the context of an in-depth review of 132 pieces of literature, not just the Lazarus, Xie, Peng, and Cho articles. Dr. Gibbons thoroughly explains his reasoning where he disagrees with the conclusions expressed by some of the authors based on their use of the data or discounts the reliability of some of the data.¹³² His disagreement with the conclusions of the authors of some of the literature that he reviewed and the conclusions of the experts relied upon by the PSC does not render his analysis unreliable.

The specific examples cited by the PSC (*e.g.*, their criticism of Dr. Gibbons's discussion of the Xie study's application of the "temporality" criterion and their criticism of Dr. Gibbons' discussion of BMI as a risk factor for CKD) do not refute this conclusion.¹³³ As to both of these, he explains his rationale for and the methodology he used in arriving at his opinions.¹³⁴

¹³¹ See Amended Gibbons Expert Report 17, 30-33, 37.

¹³² See Amended Gibbons Expert Report 18-51; AstraZeneca's Opp'n to PSC's Omnibus Mem. 39-44.

¹³³ PSC's Omnibus Mem. 51-52.

¹³⁴ See Amended Gibbons Expert Report 27-28 (Dr. Gibbons noted that FDA criticized the Xie publication on grounds similar to his); Gibbons Dep. 270:10-271:6, 282:7-287:13.

Disagreements as to the appropriate statistical evaluation of the relevant literature and the data therein are proper subjects for cross-examination at trial.¹³⁵ However, they are not sufficient to warrant exclusion under the “flexible” reliability requirement, which “is not to be used as a tool by which the court excludes all questionably reliable evidence.”¹³⁶

b. Reliability of Grouping of Data in AstraZeneca Studies

The PSC also challenges Dr. Gibbons’s work as unreliable because he concededly initially improperly grouped certain AstraZeneca clinical trial data within his meta-analysis and then, after re-running his statistical models, purportedly failed adequately to modify his Report.¹³⁷

Dr. Gibbons’s initial error is not a basis for exclusion because the PSC does not dispute that it was corrected in Dr. Gibbons’s Amended Report. Thus, regardless of whether the initial meta-analysis properly grouped data, the Amended Report resolves this issue. Moreover, the Amended Report was provided to the PSC prior to Dr. Gibbons’s deposition, so the PSC had the opportunity to cross-examine him on the issue.¹³⁸ The PSC can cross-examine Dr. Gibbons on the issue at trial and

¹³⁵ See *Daubert*, 509 U.S. at 596.

¹³⁶ *Paoli*, 35 F.3d at 744.

¹³⁷ See PSC’s Omnibus Mem. 56-58.

¹³⁸ See PSC’s Omnibus Mem. 56.

can argue that the jury should consider the initial error in determining what if any weight and credibility it affords Dr. Gibbons's testimony.

More importantly, the PSC's argument that Dr. Gibbons's initial error materially affected his analysis and Amended Report does not withstand scrutiny. A comparison of the relevant charts and amended text shows that the impact was limited and that Dr. Gibbons modified his expert report to address it. The Amended Report contains a revised chart and modifies the text to state that treatment by duration interactions *were* statistically significant, as opposed to not significant in the initial draft.¹³⁹ However, it still shows (as did the initial chart) that "the estimated [glomerular filtration rate] changes from baseline are identical at 65 weeks and in fact PPI use was associated with *better* kidney function than comparators from 65 to 104 weeks."¹⁴⁰ Thus, while the charts look different, on their face they appear to support the same conclusion reached by Dr. Gibbons. To the extent the PSC believes that the modifications have some other significance, they can be addressed on cross-examination.

3. Fit

The PSC does not challenge the fit of Dr. Gibbons's testimony, and there is no basis in the record to question the fit of his testimony.

¹³⁹ Compare Amended Gibbons Expert Report 20-21, with PSC's Omnibus Mem., Ex. 15 [hereinafter Gibbons Expert Report] at 20, ECF No. 703-15.

¹⁴⁰ Compare Amended Gibbons Expert Report 20, with Gibbons Expert Report 20.

D. Dr. Rajat Deo

AstraZeneca seeks to offer expert testimony by Dr. Rajat Deo on the issue of specific causation – namely, that hypertension, in conjunction with other comorbidities, was a substantial contributing factor to Plaintiff Rieder’s and Plaintiff Bales’s CKD.¹⁴¹ Specifically as to *Rieder*, AstraZeneca seeks to offer Dr. Deo’s opinion that “Mr. Rieder’s long-standing hypertension caused and substantially contributed to the development and progression of Mr. Rieder’s CKD.”¹⁴² Similarly in *Bales*, AstraZeneca seeks to offer Dr. Deo’s opinion that Plaintiff Bales’s “long-standing history of hypertension, including his exaggerated stress response, and chronic [non-steroidal anti-inflammatory drug (“NSAID”)] use contributed to his kidney disease[.]”¹⁴³ Additionally, in both cases, Dr. Deo’s testimony is intended to rebut the testimony of Plaintiff Rieder’s and Bales’s specific causation expert, Dr. Morton R. Rinder, who “purports to rule out cardiovascular disease as contributing to Plaintiffs’ CKD.”¹⁴⁴

¹⁴¹ See AstraZeneca’s Opp’n to PSC’s Omnibus Mem. 11-13, 15-16; PSC’s Omnibus Mem., Ex. 4 [hereinafter Deo Expert Report in *Bales*], ECF No. 703-4; PSC’s Omnibus Mem., Ex. 5 [hereinafter Deo Expert Report in *Rieder*], ECF No. 703-5.

¹⁴² Deo Expert Report in *Rieder* 1.

¹⁴³ Deo Expert Report in *Bales* 3.

¹⁴⁴ AstraZeneca’s Opp’n to PSC’s Omnibus Mem. 15. See also AstraZeneca’s Opp’n to PSC’s Omnibus Mem., Ex. J [hereinafter Rinder Expert Report in *Bales*] at 3, ECF No. 734-11 (“I conclude that neither hypertension nor renovascular disease were contributory factors in his development of CKD.”); AstraZeneca’s Opp’n to PSC’s Omnibus Mem., Ex. K [hereinafter Rinder Expert Report in *Rieder*] at 3, ECF No. 734-12 (“I conclude that the etiology of Mr. Rieder’s chronic kidney disease

The PSC has moved to exclude Dr. Deo's opinion testimony on two grounds: (1) that Dr. Deo is not qualified to provide a specific causation opinion as to whether Plaintiffs' PPI use caused their CKD because he is a cardiologist without specialized training in renal physiology, pharmacology, or pathology; and (2) that Dr. Deo's opinion is not reliable because he did not consider the Plaintiffs' PPI use as a potential cause of their CKD.¹⁴⁵ For the reasons set forth below, I recommend that the motion to exclude Dr. Deo's expert testimony be denied. However, I also recommend that, to avoid the risk of jury confusion, the Court consider giving instructions to the jury that Dr. Deo was not asked to and did not consider or form any opinion with respect to whether Plaintiff Rieder's or Plaintiff Bales's PPI use was a cause of either of their CKD.

1. Qualifications

Dr. Deo, a graduate of MIT and the University of Michigan Medical School, is trained in internal medicine and is a board-certified cardiologist and cardiac electrophysiologist. He is a clinical researcher at the University of Pennsylvania Perelman School of Medicine and his clinical practice focuses on the management of cardiac arrhythmias, especially in patients with advanced kidney disease.¹⁴⁶ He

cannot be attributed to an underlying cardiovascular disease.”); Deo Dep 225:10-16; 434:22-435:5.

¹⁴⁵ PSC's Omnibus Mem. 23.

¹⁴⁶ Deo Expert Report in *Rieder* Ex. A; Deo Expert Report in *Bales* Ex. A.

also has an NIH-funded research program that focuses on understanding the link between cardiovascular disease and CKD.¹⁴⁷

The PSC argues that Dr. Deo is not qualified to give a specific causation opinion regarding the causation between PPI use and Plaintiffs' CKD: (i) because although Dr. Deo's clinical practice and academic research involve the intersection of cardiovascular disease and kidney disease, Dr. Deo is a cardiologist, not a nephrologist, and lacks specialized training in renal physiology, pharmacology, or pathology; and (ii) because Dr. Deo's focus is on cardiac disease incidental to kidney disease, he does not treat patients for CKD and, if he observes CKD in his patients, he refers those patients to nephrologists for treatment of their CKD.¹⁴⁸ However, Dr. Deo is not, for either plaintiff, offering an opinion that PPI use did not cause their CKD.¹⁴⁹ Rather, as set forth more fully below, he is opining that their hypertension and other comorbidities and conditions were substantial contributing factors to both Plaintiffs' development of CKD.

¹⁴⁷ Deo Expert Report in *Rieder* Ex. A; Deo Expert Report in *Bales* Ex. A.

¹⁴⁸ PSC's Omnibus Mem. 25-27.

¹⁴⁹ AstraZeneca's Opp'n to PSC's Omnibus Mem., Ex. G [hereinafter Deo Dep.] at 354:4-6, Sep. 9, 2021, ECF No. 734-8 ("I'm not commenting one way or another on the role PPI either did or did not contribute to Mr. Rieder's CKD."); Deo Dep. 175: 11-15, Sep. 9, 2021 ("I was asked to review the Bales case especially with regards to cardiovascular disease, cardiovascular risk factors and their effect on his chronic kidney disease.").

Dr. Deo is sufficiently qualified under Third Circuit *Daubert* law. Dr. Deo is trained in internal medicine and, with board certifications in internal medicine, cardiovascular diseases and clinical cardiac electrophysiology, participates in research related to CKD, specifically the management of cardiac disease in patients with CKD.¹⁵⁰ Once an expert meets the baseline threshold of sufficient qualifications to proffer an expert opinion, the extent of the expert's qualifications goes to the credibility and weight to be accorded his testimony.¹⁵¹ Given Dr. Deo's background, education, experience and clinical research specifically related to the intersection of cardiovascular disease and CKD,¹⁵² he is sufficiently qualified to opine about Plaintiffs' cardiovascular issues and how they relate to Plaintiffs' CKD. Moreover, as discussed below, if Plaintiffs are permitted to present a cardiologist to opine that cardiovascular issues are not the cause of Plaintiffs' CKD, as a matter of fairness Defendants must be permitted to present a cardiologist to rebut such testimony.

2. Reliability

The PSC also asserts that Dr. Deo's testimony regarding causation fails to satisfy the reliability prong because Dr. Deo concededly did not evaluate the key causation issue in the case – whether Plaintiffs' PPI use was a cause of their CKD.¹⁵³

¹⁵⁰ Deo Expert Report in *Rieder* Ex. A; Deo Expert Report in *Bales* Ex. A.

¹⁵¹ *Id.*

¹⁵² Deo Expert Report in *Rieder* Ex. A; Deo Expert Report in *Bales* Ex. A.

¹⁵³ See PSC's Omnibus Mem. 23.

This lack of reliability is exacerbated, in the PSC's view, because Dr. Deo considered other potential causes of their CKD and attributed their CKD in part to those other conditions. Specifically, as to Plaintiff Rieder, Dr. Deo states in his report that:

[C]onsistent with [Plaintiff Rieder's] medical history, as well as assessment of his own treating providers, it is my opinion, to a reasonable degree of medical and scientific certainty, that Mr. Rieder's CKD and renal decline is attributable to hypertension and NSAID and COX-2 inhibitor use. There are also multiple other factors throughout his records that caused or contributed to his CKD including metabolic syndrome, obesity, diabetes, and years of smoking.¹⁵⁴

Similarly, with regard to Plaintiff Bales, Dr. Deo states in his report that:

[I]t is my opinion to a reasonable degree of scientific and medical certainty that . . . hypertension and exaggerated blood pressure response with stress testing, concomitant use of NSAIDs, extensive smoking history, advanced COPD – all in combination were the substantial contributing factors to [Plaintiff Bales's] CKD. These conditions preceded development of his minor CKD, which is of far less significance to his overall prognosis than his other comorbidities such as reduced lung function/ventilatory capacity.¹⁵⁵

In the PSC's view, Dr. Deo's consideration of a host of potential causative factors except Plaintiffs' PPI use renders Dr. Deo's opinion testimony unreliable and potentially misleading to the jury.¹⁵⁶

The PSC's argument regarding the reliability of Dr. Deo's testimony raises an issue of the potential for jury confusion. As the Third Circuit observed in *Paoli*, "the

¹⁵⁴ Deo Expert Report in *Rieder* 5.

¹⁵⁵ Deo Expert Report in *Bales* 4.

¹⁵⁶ PSC's Omnibus Mem. 23-25.

core of differential diagnosis is a requirement that experts at least consider alternative causes”¹⁵⁷ Given that Dr. Deo addressed a variety of potential causes of Plaintiffs’ CKD, Dr. Deo’s omission of any discussion of Plaintiffs’ PPI use, the cause alleged by plaintiffs in these cases, while not rendering his opinion completely unreliable, does bear on the credibility of his testimony.

Importantly, as previously noted, AstraZeneca has represented that it intends to call Dr. Deo specifically to rebut Dr. Rinder’s opinion that cardiovascular issues were not a cause of both Plaintiffs’ CKD.¹⁵⁸ In his expert reports, Dr. Rinder opines that Plaintiffs’ CKD cannot be attributable to cardiovascular disease.¹⁵⁹ Like Dr. Deo, Plaintiffs’ expert, Dr. Rinder, also a cardiologist, offers no opinion as to whether PPI use contributed to Plaintiffs’ CKD. Dr. Deo also understood that he was being asked to consider and respond directly to Dr. Rinder’s opinions¹⁶⁰ and he specifically did so in his reports.¹⁶¹ In that context, Dr. Deo’s disavowal of any

¹⁵⁷ *Paoli*, 35 F.3d at 759.

¹⁵⁸ See AstraZeneca’s Opp’n to PSC’s Omnibus Mem. 15-16.

¹⁵⁹ Rinder Expert Report in *Bales* at 3 (“I conclude that neither hypertension nor renovascular disease were contributory factors in [Plaintiff Bales’s] development of CKD.”); Rinder Expert Report in *Rieder* at 3 (“I conclude that the etiology of [Plaintiff] Rieder’s chronic kidney disease cannot be attributed to an underlying cardiovascular disease.”).

¹⁶⁰ Deo Depo 225:10-16; 434:22-435:5.

¹⁶¹ Deo Expert Report in *Rieder* 6 (“[Dr. Rinder] improperly omits any discussion of hypertension as a cause of Mr. Rieder’s CKD.”); Deo Expert Report in *Bales* 4 (“I have reviewed Dr. Rinder’s report.... Dr. Rinder minimizes the effects that the patient’s other comorbidities such as COPD and advanced ventilatory dysfunction can have on CKD and CKD progression.”).

evaluation or opinion on the impact (if any) of these Plaintiffs' PPI use on their kidney function is understandable. Given that Plaintiffs Rieder and Bales are offering their expert cardiologist, Dr. Rinder, to opine that cardiovascular disease can be ruled out as a cause of their CKD, AstraZeneca should be allowed to offer its own expert cardiologist, Dr. Deo, to opine that Dr. Rinder is incorrect and that cardiovascular disease cannot be ruled out as a cause of Plaintiffs' CKD.

3. Fit

The PSC does not challenge the fit of Dr. Deo's testimony in either *Rieder* or *Bales*, and there is no basis in the record to question the fit of his testimony in those cases.

E. Dr. Caren Palese

AstraZeneca seeks to offer Dr. Caren Palese, a gastroenterologist, as a specific causation expert to testify that Plaintiff Rieder's CKD predated his Nexium use. The PSC moved to exclude Dr. Palese's specific causation opinions as to the cause of Plaintiff Rieder's CKD. Her primary basis for this conclusion is her calculation of Plaintiff Rieder's estimated glomerular filtration rate ("eGFR")¹⁶² in January 2002, prior to his Nexium use; she asserts that it shows abnormal kidney function at that time. The PSC challenges Dr. Palese's qualifications to give such testimony and the reliability of her testimony, given her inability to identify adequately the

¹⁶² eGFR is calculated with a formula that accounts for blood creatinine levels and some combination of other characteristics, including age.

methodology she used to perform her calculation to arrive at her conclusion, and several misstatements made in her deposition testimony about Plaintiff Rieder's age in January 2002 (age being a data point required to calculate eGFR).¹⁶³

For the reasons set forth below, I recommend that Dr. Palese's testimony be excluded because her conclusion that Plaintiff Rieder's CKD predated his Nexium use is not based on a defined, replicable, and reliable methodology. Admitting such testimony therefore would not "help the trier of fact to understand the evidence or to determine a fact in issue;" instead, it would create a substantial risk that the jury would be confused or misled.¹⁶⁴

1. Qualifications

Dr. Palese is a board-certified gastroenterologist.¹⁶⁵ She completed her residency in internal medicine and was – but is not presently – board-certified in internal medicine.¹⁶⁶ She testified that she was "very comfortable taking care of patients with kidney disease."¹⁶⁷ However, she also testified that when treating patients with CKD,

¹⁶³ PSC's Omnibus Mem. 28-35.

¹⁶⁴ Fed. R. Evid. 702(a).

¹⁶⁵ PSC's Omnibus Mem., Ex. 9 [hereinafter Palese Expert Report] at 1, ECF No. 703-9.

¹⁶⁶ Palese Expert Report 1.

¹⁶⁷ PSC's Omnibus Mem., Ex. 10 [hereinafter Palese Dep.] at 145:3-4, ECF No. 703-10.

she worked on a team with nephrologists because “[u]sually you’d like to have a kidney doctor involved if the patient had chronic kidney disease.”¹⁶⁸

Expert testimony by physicians is very rarely excluded in the Third Circuit for lack of qualifications, and Dr. Palese satisfies the liberal Third Circuit standard for qualifications. Dr. Palese is a well-credentialed gastroenterologist with ample experience treating patients with CKD for their gastrointestinal conditions, including with PPIs.¹⁶⁹ She works alongside nephrologists as a member of multidisciplinary teams for her patients with CKD.¹⁷⁰ She reviewed over 250 documents, including peer-reviewed studies, FDA materials, and professional association guidance documents.¹⁷¹ Under the Third Circuit’s liberal standard, she is sufficiently qualified to provide expert testimony on the purported causal relationship between Plaintiff Rieder’s PPI use and his CKD.

2. Reliability

To determine reliability, a court must look at the scientific validity of the methodology upon which the expert bases an opinion.¹⁷² As set forth above, an

¹⁶⁸ Palese Dep. 143:21-23.

¹⁶⁹ Palese Dep. 71:3-72:5, 75:14-76:2.

¹⁷⁰ See, e.g., Palese Dep. 143:2-23.

¹⁷¹ Palese Expert Report Ex. B. Dr. Palese’s qualifications considerably exceed those of the doctor who was excluded as unqualified in *Diaz v. Johnson Matthey, Inc.*, 893 F. Supp. 358, 372 (D.N.J. 1995), because he had never treated a patient with the particular respiratory condition at issue, was unfamiliar with the literature on the condition, and lacked any other qualifications beyond his general training and credentials.

¹⁷² *Paoli*, 35 F.3d at 742.

expert must identify the methodology or procedures used to explain how the expert's conclusions were reached, and the data and materials considered by the expert must be available.

The relevant facts do not appear to be in dispute. Dr. Palese does not routinely calculate eGFR for her patients in her practice as a gastroenterologist.¹⁷³ To support her opinion that Plaintiff Rieder suffered from CKD in January 2002, prior to his Nexium use, Dr. Palese went on the internet and found a formula that she says that she used to calculate Plaintiff Rieder's eGFR using his creatinine levels, age, and gender.¹⁷⁴ Dr. Palese did not keep any record of that calculation or of the inputs she used and could not identify with certainty at her deposition the formula she used.¹⁷⁵ She erroneously stated throughout her deposition that Plaintiff Rieder was in his thirties in January 2002, when he was actually forty-four at that time.¹⁷⁶ Though she corrected this error in later deposition testimony after being shown a document that

¹⁷³ Palese Dep. 187:12-19.

¹⁷⁴ Palese Dep. 187:20-188:4; Oral Args. 178:10-15, Apr. 4, 2022.

¹⁷⁵ Palese Dep. 189:3-21. Defense counsel at oral argument agreed that Dr. Palese could not identify the formula she had used: "And Ms. Martines is right, [Dr. Palese] cannot remember the website ... to which she inputted, but what she says is that ... combining her experience and with the calculations that she did, it results in an eGFR of 60." Oral Args. 178:10-15, Apr. 4, 2022. In other words, Dr. Palese could not recall where she got the formula that she used, but nonetheless concluded that 60 was the correct number – even though at her deposition she misstated one of the key inputs (age) multiple times and admitted that she did not make this calculation routinely in her practice.

¹⁷⁶ *See, e.g.*, Palese Dep. 158:17-22, 161:16-22, 162:5-24.

contained his date of birth, there is no record in her report of the age she used in her eGFR calculation.¹⁷⁷ The only potential evidence that she used the correct age is her *ipse dixit* assertion at deposition that she did use the correct age, after being corrected about repeatedly misstating Plaintiff Rieder's age in her deposition testimony.¹⁷⁸

AstraZeneca asserts that calculating eGFR is just like converting Fahrenheit to Celsius, so it does not matter that Dr. Palese cannot show her work. My review of the available internet eGFR calculators reveals that they are not all identical, so it is possible that the specific calculator used would affect the result.¹⁷⁹ Because Dr. Palese kept no records of her calculation and does not know where she got the

¹⁷⁷ Palese Dep. 162:15-163:16.

¹⁷⁸ Palese Dep. 172:13-21.

¹⁷⁹ A review of eGFR calculators available on the internet shows that there is variability as to inputs. The National Kidney Foundation one uses: serum creatinine (mg/dL); serum cystatin C (mg/L); age (years); gender (m/f); standard assays (y/n/not sure); adjust for body surface (y/n/not sure). Nat'l Kidney Foundation, *eGFR Calculator*, https://www.kidney.org/professionals/kdoqi/gfr_calculator (last visited June 24, 2022). A "Medline Plus" calculator from the National Library of Medicine uses creatinine, age, weight, height, gender, and race. MedlinePlus, *Glomerular Filtration Rate (GFR) Test*, <https://medlineplus.gov/lab-tests/glomerular-filtration-rate-gfr-test/> (last visited June 24, 2022). A calculator from DaVita Kidney Care uses serum creatinine, age, and gender. DaVita Kidney Care, *GFR Calculator*, <https://www.davita.com/tools/gfr-calculator> (last visited June 24, 2022). One available on "Calculator.net" uses serum creatinine (mg/dL), age, gender, race (black/not black). Calculator.net, *GFR Calculator*, <https://www.calculator.net/gfr-calculator.html> (last visited June 24, 2022).

calculator on the internet, she has not identified a methodology that can be evaluated by the Court or that can be repeated by Dr. Palese or others.¹⁸⁰

Courts in this Circuit presented with similar circumstances have rejected expert opinions as unreliable. In *In re Johnson & Johnson Talcum Powder Prods. Mktg., Sales Practices & Prods. Litig.*, the court noted that where the data the expert used in his analysis were permanently unavailable and the analysis could not possibly be repeated, the methodology was unreliable.¹⁸¹ Similarly, in *Buzzerd*, an expert's testimony was ruled inadmissible when he failed to articulate any methodology used to develop his opinion and relied solely on his observations and *ipse dixit* conclusions.¹⁸²

The same is true here. Dr. Palese's methodology consists of searching online for an eGFR formula, choosing one, and using it to calculate Plaintiff Rieder's eGFR without recording which formula she chose, the source of the formula, the data she inputted, or consideration of the availability of alternative methodologies. Dr. Palese's calculation of Plaintiff Rieder's eGFR cannot be reproduced because it is

¹⁸⁰ The PSC's counsel noted in oral argument that she had attempted to replicate Dr. Palese's analysis and result using a calculator that Dr. Palese had indicated was one that she might have used but was unable to replicate Dr. Palese's calculated result. Oral Args. 174:15-19, Apr. 4, 2022.

¹⁸¹ *In re Johnson & Johnson Talcum Powder*, 509 F. Supp. 3d at 155.

¹⁸² *See Buzzerd*, 669 F. Supp. 2d at 523; *U.S. v. Mitchell*, 365 F.3d at 235 (noting other factors that may be relevant include "whether a method consists of a testable hypothesis" (quoting *Paoli*, 35 F.3d at 742 n.8)).

unknown what calculator she used or what inputs she put into it, and she cannot demonstrate how this calculation generated the result she claims to have gotten.

3. Fit

The PSC does not challenge the fit of Dr. Palese's testimony, and there is no basis in the record to question the fit of her testimony.

IV. DEFENDANTS' MOTIONS

A. Dr. David Ross

The PSC seeks to offer expert testimony by Dr. David Ross on FDA's process for approving drug labeling, requiring and evaluating post-marketing safety and efficacy data, considering label modifications, and the adequacy of the warnings provided by AstraZeneca for Nexium and Takeda for Prevacid (in *Bales*) regarding a possible causal association between these drugs and renal impairment. AstraZeneca seeks to exclude Dr. Ross's opinion testimony for lack of qualifications, reliability, and fit.¹⁸³ Additionally, AstraZeneca seeks to exclude his potential testimony relating to the FDA's level of understanding of the difference between acute tubulointerstitial nephritis ("ATIN") and chronic tubulointerstitial nephritis ("CTIN") and the adequacy of FDA staffing and resources.¹⁸⁴ Takeda

¹⁸³ See Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Ross 1-2 [hereinafter AstraZeneca's Mem. in Supp. of Mot. to Exclude Ross], No. 2:19-cv-00850, ECF No. 33-1; *Daubert*, 509 U.S. at 589-92.

¹⁸⁴ AstraZeneca's Mem. in Supp. of Mot. to Exclude Ross 1-2.

moves to exclude Dr. Ross's opinion on the grounds of reliability and fit, as well as additional arguments that Dr. Ross may not, as a matter of law, opine that the warnings were inadequate at the time of Prevacid approval and that his opinions about Takeda's pharmacovigilance improperly constitute a "fraud on the FDA" claim.¹⁸⁵ For the reasons discussed below, I recommend that these motions be denied in substantial part. With regard to two narrow arguments made by AstraZeneca, as discussed in more detail below, I recommend that the motion be granted.

1. Qualifications

Dr. Ross has multiple degrees and post-doctoral training relevant to the issues in these cases. He received both an M.D. and a Ph.D. in Biochemistry from New York University and a master's degree in Biometrics from Oregon Health Sciences University.¹⁸⁶ He completed a residency in internal medicine at New York University ("NYU") and a fellowship in infectious disease at Yale University School of Medicine.¹⁸⁷

Prior to joining FDA in 1996, Dr. Ross was a practicing physician focusing on HIV/AIDS patients from 1991-1996. From 1996-2006, Dr. Ross held multiple

¹⁸⁵ Mem. in Supp. of Takeda's Mot. to Exclude Test. of Dr. David Ross 14 [hereinafter Takeda's Mem. in Supp. of Mot. to Exclude Ross], No. 2:17-cv-06124, ECF No. 77-1.

¹⁸⁶ AstraZeneca's Mot. to Exclude Ross, Ex. A [hereinafter Ross Expert Report] at Ex. A, 1, No. 19-cv-00850, ECF No. 33-3.

¹⁸⁷ Ross Expert Report Ex. A, 1.

positions at FDA: Medical Officer at the Division of Anti-Infective Drug Products, Senior Medical Reviewer at the Division of Anti-Infective Drug Products, Medical Team Leader at the Division of Anti-Infective Drug Products, Deputy Director at the Office of Drug Evaluation VI, and Associate Director for Regulatory Science at the Office of Oncology Drug Products.¹⁸⁸ His work at FDA involved reviewing and making approval recommendations for INDs and NDAs, reviewing labeling changes (including Changes Being Effected (“CBEs”)), providing guidance on post-marketing surveillance of adverse events, reviewing reports submitted to FDA by NDA sponsors, and ultimately supervising and directing more junior medical reviewers at FDA.

Dr. Ross was repeatedly recognized for professional excellence at FDA: for example, he received the CDER Excellence in Communication Award (ODE IV/PhRMA Working Group), the CDER Team Excellence Award (Maxipime® Review Team), the CDER Group Recognition Award (Inter-Divisional Working Group on Antibiotic Resistance), the FDA Commendable Service Award (Linezolid Review Team), the FDA Award of Merit (CDER Counter-Terrorism Response Team), and the CDER Team Excellence Award (CDER TOPOFF 2 Exercise Team).¹⁸⁹

Since 2006, Dr. Ross has been the Director of HIV, Hepatitis, and Related Conditions Programs in the Office of Specialty Care Services at the Veteran’s Health

¹⁸⁸ Ross Expert Report 2-3.

¹⁸⁹ Ross Expert Report Ex. A, 3-4.

Administration and has also served as a staff physician at the VA Medical Center in Washington, DC. He is board-certified in internal medicine and infectious diseases and has an extensive list of publications and presentations, most relating to infectious disease issues and some relating to drug development and study design.¹⁹⁰

AstraZeneca does not challenge Dr. Ross's qualifications generally, but only as to the following: (1) his opinions regarding whether PRAC properly analyzed data submitted by AstraZeneca; and (2) his opinions regarding pharmacology, toxicology, and nephrology, particularly as applied to preclinical and clinical trials.

Dr. Ross is trained in internal medicine and has over a decade of experience at FDA reviewing preclinical and clinical trial data, adverse event data, and product labeling relating to a variety of medical specialties. The fact that he is not holding himself out as an expert in nephrology, for example, does not mean that he is incapable of providing expert opinions about the adequacy and interpretation of preclinical or clinical trial data or subsequent analyses of those data simply because he is not an expert in that particular substantive field.¹⁹¹ FDA reviewers have expertise in reviewing, interpreting, and analyzing data and that is what he is proposing to do here. Likewise, the fact that he did not ever work for PRAC does

¹⁹⁰ Ross Expert Report 3-17.

¹⁹¹ Indeed, AstraZeneca has argued that Dr. Lansita, an expert in toxicology, is qualified to offer an expert opinion on the regulatory significance of animal studies she reviewed despite the fact that she is not an expert in nephrology.

not preclude him from opining about the adequacy of PRAC's data analysis.¹⁹² Here, Dr. Ross is being proffered to testify about data analysis from a regulatory perspective. Dr. Ross is highly qualified under applicable Third Circuit law to testify about this subject matter given his decade-long experience doing just that at FDA.¹⁹³

2. Reliability

AstraZeneca and Takeda both argue that Dr. Ross's testimony fails to satisfy *Daubert*'s reliability prong because Dr. Ross fails to provide adequate explanations for how he reached his conclusions about an association between Nexium use and ATIN and CTIN.¹⁹⁴

Dr. Ross provided a 275-page report in which he described the voluminous materials that he reviewed as well as the approach that he took in reviewing these materials and reaching his conclusions.¹⁹⁵ He explained the regulatory process

¹⁹² As the PSC's brief notes, Dr. Ross's criticisms focus largely on analyses of the data that he believes that AstraZeneca, not PRAC, should have performed. PSC's Mem. in Supp. of its Opp'n to AstraZeneca's Mot. to Exclude Dr. David Ross 37-38, ECF No. 737 [hereinafter PSC's Opp'n Mem. to AstraZeneca's Mot. to Exclude Ross].

¹⁹³ See *Terry I*, 2016 U.S. Dist. LEXIS 99177, at *14-15 (finding that an expert with eighteen years of experience who contributed to the labeling and promotional materials of more than one hundred different products was qualified to conduct research in the same way FDA would); *Wolfe I*, 881 F. Supp. 2d at 658 (finding FDA experts to be qualified to testify regarding a drug's regulatory compliance even when their work done at FDA did not include review of draft labeling and they only received general "regulatory science" training).

¹⁹⁴ See AstraZeneca's Mem. in Supp. of Mot. to Exclude Ross 7-10; Takeda's Mem. in Supp. of Mot. to Exclude Ross 7-12.

¹⁹⁵ Ross Expert Report 14-16, Ex. C.

governing pharmaceuticals, including the process for obtaining initial approval, how and when a manufacturer may seek to modify label warnings and the applicable regulations, and FDA's historical practice in considering such applications.¹⁹⁶ He described his methodology based on his education, training, and experience at FDA applying the applicable FDA regulations.¹⁹⁷ While Defendants may disagree with his analysis, it cannot fairly be said that his methodology is not systematic and explained.

An expert's methodology is reliable if (1) the testimony is based upon sufficient facts or data, (2) the testimony is the product of reliable principles and methods, and (3) the witness has applied the principles and methods reliably to the facts of the case.¹⁹⁸ As noted above, courts have found the experience at FDA to be particularly valuable for FDA experts testifying on regulatory issues, especially when coupled with additional industry or academic experience.

The cases relied upon by Defendants are distinguishable and reflect extreme situations not presented here. In *In re Trasylol Prods. Liab. Litig.*, Dr. Suzanne Parisian's report suffered from several fatal flaws not present in this case.¹⁹⁹ First, unlike in this case, there was a substantial question whether Dr. Parisian, whose FDA experience related to medical devices, was qualified to testify regarding FDA

¹⁹⁶ Ross Expert Report 19-73.

¹⁹⁷ See Ross Expert Report 15-16.

¹⁹⁸ See Fed. R. Evid. 702; *Paoli*, 35 F.3d at 741.

¹⁹⁹ *In re Trasylol Prods. Liab. Litig.*, 709 F. Supp. 2d 1323 (S.D. Fla. 2010).

regulatory processes involving pharmaceuticals, which are subject to different regulations and handled by a separate division.²⁰⁰ Second, in *Trasylol*, Dr. Parisian's conclusion required a causal opinion that she could not give.²⁰¹ Third, Dr. Parisian "conducted only a cursory and conclusory look at Trasylol from the perspective of the plaintiffs in this case" and included problematic opinions based exclusively on speculation concerning FDA's and Bayer's intent, including statements that Bayer continued to expand the Trasylol sales force when they were aware that FDA changed its risk-benefit profile and assumptions about FDA's concerns regarding the warnings.²⁰² Fourth, as Defendants correctly noted, the court in *Trasylol* found that Dr. Parisian generally took a collection of facts, speculated to impute motive, and drew unsupported conclusions unrelated to her regulatory expertise.²⁰³ Dr. Ross's report is far different from Dr. Parisian's report. Rather, Dr. Ross's report is an in-depth review and analysis of voluminous records, data, peer-reviewed literature and data analysis of the type he regularly reviewed at FDA and from which he draws supported conclusions related to his regulatory expertise that he adequately explains. Finally, unlike in this case, *Trasylol* involved a witness whom the court

²⁰⁰ *Id.* at 1331.

²⁰¹ *Id.*

²⁰² *Id.* at 1338.

²⁰³ *See id.* at 1348; AstraZeneca's Mem. in Supp. of Mot. to Exclude Ross 9.

found to be evasive and not credible when questioned and who had been repeatedly rejected as an expert or criticized by other courts.²⁰⁴

In re TMI Litigation is similarly distinguishable in that the expert Dr. Vladimir Shevchenko's methodology was open to attack due to his admission that he relied on "his own ipse dixit, rather than on something more verifiable" and that his methodology changed in response to challenges.²⁰⁵

It is clear that Dr. Ross, with a decade of experience reviewing INDs, NDAs, labeling proposals, and adverse drug event data and recommending

²⁰⁴ See, e.g., *Trasylol*, 709 F. Supp. 2d at 1345 n.29 ("In the past, courts have had trouble limiting Dr. Parisian's testimony, despite her and the plaintiffs['] assurance, that she would not exceed its proper scope. . . . Dr. Parisian also demonstrated at the *Daubert* hearing that she was unable or unwilling to connect her opinions to any valuable regulatory expert analysis and opined on matters that were far beyond her expertise." (citation omitted)); see also *Rowland v. Novartis Pharms. Corp.*, 9 F. Supp. 3d 553 (W.D. Pa. 2014) (excluding Dr. Parisian's causation testimony); *Bartoli v. Novartis Pharms. Corp.*, No. 3:13-0724, 2014 U.S. Dist. LEXIS 52956 (M.D. Pa. Apr. 17, 2014) (limiting Dr. Parisian's regulatory testimony and excluding all her other proposed testimony); *In re Human Tissue Prods. Liab. Litig.*, 582 F. Supp. 2d 644 (D.N.J. 2008) (finding Dr. Parisian's reliability particularly troubling and granting the motion to exclude); *In re Prempro Prods. Liab. Litig.*, 554 F. Supp. 2d 871, 879-87 (E.D. Ark. 2008) (noting that Dr. Parisian's testimony should not have been permitted); *Lopez v. I-Flow Inc.*, No. CV 08-1063, 2011 WL 1897548 at *11 (D. Ariz, Jan. 26, 2011) (finding that Dr. Parisian's testimony lacked reliability and helpfulness to the jury); *Hines v. Wyeth*, No. 2:04-0690, 2011 WL 2680842 at *5 (S.D. W.Va, July 8, 2011) (finding that Dr. Parisian's testimony was "neither relevant nor reliable under *Daubert* and Rule 702"); *In re Fosamax Prods. Liab. Litig.*, 645 F. Supp. 2d 164, 192 (S.D. N.Y. 2009) (limited Dr. Parisian's commentary to explaining the regulatory context in which they were created and stating that she was not permitted to read, quote from, or regurgitate her reports).

²⁰⁵ *In re TMI Litig.*, 193 F.3d at 687-88.

regulatory action based on his review, is employing a reliable methodology to do the same in these cases.

3. Fit

Defendants argue that Dr. Ross's testimony concerning the potential association between PPIs and ATIN and CTIN should be excluded because it is not a fit with the issues presented in these six Bellwether Trial Cases. Their argument is that because all six plaintiffs claim to have developed CKD, there is no fit between (1) Dr. Ross's proposed testimony regarding the information available to AstraZeneca and Takeda about the association between PPI use and development of ATIN and CTIN and his conclusion that the labeling at various points in time was inadequate and (2) the injuries claimed by the plaintiffs in the six Bellwether Trial Cases.

In making this argument, Defendants ignore the scientific/medical relationship between ATIN/CTIN and CKD, oversimplify and misstate the failure to warn claims made by these plaintiffs, and take isolated testimony given by Dr. Ross about CKD entirely out of context.

The crux of Defendants' lack of fit argument is that the PSC is alleging that AstraZeneca and Takeda failed to warn specifically of an association between PPI use and CKD and that Dr. Ross's testimony pertains to whether and when AstraZeneca and Takeda had sufficient information about an association between

PPI use and development of ATIN or CTIN. This argument misses the point. The PSC argues that AstraZeneca and Takeda were on notice as early as 1995 of an association between ATIN and PPI use, and by 2003 of an association between CTIN and PPI use, and that they should have provided adequate warnings of these associations because, among other things, these conditions can lead to CKD.²⁰⁶

Dr. Ross's report likewise makes it clear that ATIN or CTIN are relevant to this litigation because if these conditions develop and are undetected and/or left untreated, they can lead to CKD.²⁰⁷ Dr. Ross's report contains a lengthy and detailed review of scientific publications, clinical trial data, and post-marketing adverse event data linking PPI use with ATIN and CTIN.²⁰⁸ Based upon these data, he concluded, "The connection between acute and chronic injury in the tubulointerstitium is grounded in the understanding that interstitial nephritis constitutes "a final common pathway to all forms of end-stage renal disease.""²⁰⁹

He further concludes that the risk that PPI use could have an adverse effect on the kidneys was known to AstraZeneca and Takeda by the late 1990's and that "the

²⁰⁶ PSC's Mem. in Supp. of its Opp'n to Takeda's Mot. to Exclude Test. of Dr. David Ross 5-6, ECF No. 745 ("PPI use is known to cause a kidney injury known as interstitial nephritis ("IN"), now called tubulointerstitial nephritis ("TIN"). It has been recognized for decades that TIN can manifest as acute tubulointerstitial nephritis ("ATIN") or chronic tubulointerstitial nephritis ("CTIN") and that both of these entities separately can lead to [CKD] and End Stage Renal Disease ("ESRD").")

²⁰⁷ Ross Expert Report 94-98.

²⁰⁸ Ross Expert Report 98-248.

²⁰⁹ Ross Expert Report 270.

threshold of reasonable evidence of a causal association between PPI use and chronic, progressive renal toxicity was crossed by early 2003.”²¹⁰ Failure to warn of this risk, in Dr. Ross’s view, resulted in the lack of monitoring and treatment of PPI users so that the renal injury would go undetected until it had progressed to CKD.²¹¹

With this context, Defendants’ reliance on two quotes from Dr. Ross do not support Defendants’ argument of lack of fit. AstraZeneca asserts that “Dr. Ross testified unequivocally during his deposition that the conditions with which he was concerned, ATIN and CTIN, are different ailments from CKD.”²¹² Of course Dr. Ross made this distinction, because ATIN and CTIN are in fact different from CKD. However, this argument ignores Dr. Ross’s views that are discussed above about the relevance of ATIN and CTIN to this litigation – that left untreated, they can and do lead to CKD. Similarly, Defendants cite the statement in Dr. Ross’s report that “[i]n 2016, Lazarus *et al*, was the first group of scientists to report on the association between PPI and CKD” for the proposition that there could be no failure to warn claim prior to 2016.²¹³ Again, that is not an accurate characterization of Dr. Ross’s opinions, which link ATIN and CTIN to potential development of CKD.

²¹⁰ Ross Expert Report 271-272.

²¹¹ Ross Expert Report 272-274.

²¹² AstraZeneca’s Mem. in Supp. of Mot. to Exclude Ross 5.

²¹³ Ross Expert Report 133.

Defendants will of course present experts who disagree with Dr. Ross's conclusions and will cross-examine him vigorously, and the jury will need to decide who is right on this critical issue. However, there is no question that Dr. Ross's proposed testimony bears directly on key issues in this litigation.

4. Additional Arguments

a. AstraZeneca

AstraZeneca makes two additional arguments for excluding portions of Dr. Ross's testimony. First, it argues that any testimony relating to FDA's understanding of the difference between ATIN and CTIN should be excluded. In Dr. Ross's deposition, AstraZeneca's counsel asked him whether he thought FDA understood the difference and he responded that he did not.²¹⁴ I do not understand that the PSC intends to offer affirmative testimony by Dr. Ross regarding FDA's understanding of the difference between ATIN and CTIN. Further, it is not entirely clear to me why AstraZeneca chose to elicit this testimony at his deposition. In any event, it would be speculative and should not be offered at trial, and to that extent, I recommend granting AstraZeneca's motion.²¹⁵ However, if on cross-examination at trial AstraZeneca

²¹⁴ AstraZeneca's Mem. in Supp. of Mot. to Exclude Ross, Ex. B [hereinafter Ross Dep.] at 318:19-319:1, No. 2:17-cv-06124, ECF No. 33-3 ("Q. You think FDA understands the difference between acute ATIN and chronic TIN for purposes of labeling? . . . The Witness: All I can say is they do not. They say acute or chronic so . . .").

²¹⁵ *Paoli*, 35 F.3d at 742.

seeks to use Dr. Ross's deposition testimony, or again to elicit testimony from Dr. Ross that he believes FDA did not understand the difference between ATIN and CTIN, for purposes of impeachment or otherwise, then AstraZeneca will have opened the door to such testimony and it should be permitted.²¹⁶

Second, AstraZeneca seeks to exclude any testimony about FDA's staffing and resources. To the extent Dr. Ross is relying both upon his personal experience at FDA and upon objective evidence of such issues, including FDA staffing and enforcement data, at or around the period when he contends newly acquired information warranted additional PPI label warnings (*e.g.*, the 2007 Institute of Medicine report),²¹⁷ he should be permitted to testify as to that evidence.²¹⁸ However, I recommend that AstraZeneca's motion be granted to exclude any speculative testimony about FDA's resources in 2020 and their impact on the agency's ability to negotiate labeling changes at that time.²¹⁹ Dr. Ross's tenure at FDA ended in 2006 so that his personal experience is not likely to be relevant to the staffing and resources of the agency fourteen years later.

²¹⁶ *Healy v. Haverford Twp.*, 462 Fed. Appx. 224 (3d Cir. 2012) ("The doctrine of 'opening the door,' sometimes referred to as 'curative admissibility,' provides that when one party introduces inadmissible evidence, the opposing party thereafter may introduce inadmissible evidence to rebut or explain the prior evidence." (citing *Gov't of V.I. v. Archibald*, 987 F.2d 180, 187 (3d Cir. 1993))).

²¹⁷ Ross Expert Report 48 n.36.

²¹⁸ *See, e.g.*, Ross Expert Report 12-14.

²¹⁹ *See* Fed. R. Evid. 611.

b. Takeda

Takeda likewise makes two additional arguments for excluding portions of Dr. Ross's testimony, both of which should be rejected. First, it argues that Dr. Ross's testimony concerning the language that he believes should have been in the labeling "by 1995" is an impermissible attack on the initial FDA-approved Prevacid labeling and thus, by law, must be excluded. In support of this argument, it cites one First Circuit case, *Celexa*, which found that a plaintiff's claim about the inadequacy of the initial labeling was preempted.²²⁰ Takeda then cites cases excluding testimony that was found to be contrary to established law.²²¹ The *Celexa* holding, however, is far from established law. For example, *Gaetano v. Gilead Scis., Inc.*, a decision from the District of New Jersey that found that there was no law preventing Gilead from implementing stronger warning language prior to approval so there was no preemption, was not even cited by Takeda.²²² Further, one of the cases cited by Takeda, *Stube v. Pfizer*,²²³ directly contradicts the *Celexa* holding, finding that defendants could have submitted stronger warning language prior to the approval of the drug, and thus there

²²⁰ Takeda's Mem. in Supp. of Mot. to Exclude Ross 13 (citing *In re Celexa and Lexapro Marketing and Sales Prac. Litig.*, 779 F.3d 34 (1st Cir. 2015)).

²²¹ Takeda's Mem. in Supp. of Mot. to Exclude Ross 13-14 (citing *Terry II*, 2016 U.S. Dist. LEXIS 117594; *In re Gadolinium-based Contrast Agents Prods. Liab. Litig.*, No. 1:08-GD-50000, 2010 U.S. Dist. LEXIS 43444 (N.D. Ohio May 4, 2010)).

²²² *Gaetano v. Gilead Scis., Inc.*, 529 F. Supp. 3d 333, 345 (D.N.J. 2021).

²²³ 446 F. Supp. 3d 424, 435-36 (W.D. Ark. 2020).

was no preemption.²²⁴ That appears to be exactly Dr. Ross's opinion here, and there is no legal basis to argue that such testimony should be excluded.

Second, Takeda also makes a cursory argument that Dr. Ross's testimony about Takeda's conduct regarding their regulatory obligations somehow constitutes a fraud on the FDA claim. They provide no legal support for this proposition, and, as the PSC points out, there is case law finding that former FDA officials relying on their training and experience at FDA may testify as to the appropriateness of a company's regulatory conduct.²²⁵

B. Dr. Martin Wells

The PSC has proffered the testimony of Dr. Martin Wells, a biostatistician at the University of Chicago, to analyze Defendants' 2016 submissions to PRAC regarding the safety of their PPI products.²²⁶ Dr. Wells performed meta-analyses of data submitted by AstraZeneca and Takeda to PRAC in 2016 and opines that his analyses show a statistically significant decrease in renal function, as measured by eGFR, in PPI

²²⁴ See Takeda's Mot. to Exclude Ross 13-14 (citing *Stube v. Pfizer, Inc.*, 446 F. Supp. 3d 424, 435-36 (W.D. Ark. 2020)).

²²⁵ PSC's Mem. in Supp. of its Opp'n to Takeda's Mot. to Exclude Test. of Dr. David Ross 43 (citing *In re Mirena IUD Prods. Liab. Litig.*, 169 F. Supp. 3d 396, 480 (S.D.N.Y. 2016); *Kruszka v. Novartis Pharms. Corp.*, 28 F. Supp. 3d 920, 931 (D. Minn. 2014)).

²²⁶ PSC's Mem. in Opp'n to Defs.' Mot. to Exclude Op. Test. from Dr. Martin T. Wells 5, ECF No. 739 [hereinafter PSC's Opp'n Mem. to Wells].

users as compared to non-users.²²⁷ AstraZeneca and Takeda challenge Dr. Wells's opinions as unreliable claiming that he (1) first performed an analysis of AstraZeneca's data including their four-week studies and then, because he was unhappy with the result, excluded those four-week studies from his analysis so as to get his desired result, and (2) lacked a valid basis for including data from the eight-week AstraZeneca study in his analyses of AstraZeneca's data.²²⁸ Defendants also argue that his opinion does not fit the issues in these cases.²²⁹ The PSC subsequently stipulated that it does not oppose the Defendants' motions to the extent they seek to prevent Dr. Wells from offering an opinion on general causation that PPIs cause CKD or an opinion that Dr. Wells's analyses establish that PPIs are harmful to the kidneys.²³⁰

For the reasons set forth below, I recommend that the Court grant the Defendants' motions to the extent that they prohibit Dr. Wells from offering an opinion that PPIs cause CKD or an opinion that his analyses establish that PPIs are harmful to the kidneys, per the PSC's stipulation, but recommend denying the

²²⁷ Mem. in Supp. of AstraZeneca's Mot. to Exclude Expert Test. of Dr. Martin Wells, Ex. D at 9-10 [hereinafter Wells Expert Report] No. 2:17-cv-00850, ECF No. 34-5.

²²⁸ See AstraZeneca's Mem. of Law in Supp. of Defs.' Mot. to Exclude Expert Test. of Dr. Martin Wells 9-11, No. 2:17-cv-00850, ECF No. 34-1 [hereinafter Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Wells]; AstraZeneca and Takeda's Joint Mem. in Supp. of Defs.' Mot. to Exclude Expert Test. of Dr. Martin Wells 9-11, No. 2:17-cv-06124, ECF No. 76-1 [hereinafter Defs.' Joint Mem. to Exclude Wells].

²²⁹ See Mem. in Supp. of Defs.' Mot. to Exclude Wells 4; Defs.' Joint Mem. to Exclude Wells 4.

²³⁰ Joint Report to the Special Master Re *Daubert* Mot. Oral Args. ¶ 11.

Defendants’ motions to exclude Dr. Wells’ testimony to the extent that evidence regarding PRAC or its conclusions is offered into evidence at trial in any of the six Bellwether Trial Cases.²³¹

1. Qualifications

Defendants do not challenge Dr. Wells’s qualifications, and there is no basis in the record to question his qualifications to offer his stated opinions.

2. Reliability

AstraZeneca and Takeda assert that Dr. Wells’s opinions are unreliable because he found a statistically significant decrease in eGFR in PPI users only after allegedly “cherry-picking” the data by excluding the results of studies involving only four weeks of use.²³²

²³¹ At oral argument, in response to my question whether AstraZeneca would be offering PRAC data at trial, AstraZeneca’s counsel stated that “AstraZeneca intends to move to exclude foreign regulatory [submissions]” and one should “not assume that [AstraZeneca] will be relying on PRAC at trial.” Oral Args. 15:15-20, Apr. 4, 2022. In the *Rieder* case, while AstraZeneca moved to exclude evidence of PPI labels approved by foreign regulatory agencies, neither party moved to exclude all evidence of data submitted to PRAC. AstraZeneca’s Mot. *In Limine* to Exclude Evid. of Foreign PPI Labels, No. 2:19-cv-00850, No. ECF 60.

²³² See Mem. of Law in Supp. of AstraZeneca’s Mot. to Exclude Wells 12; Mem. in Supp. of Defs.’ Mot. to Exclude Wells 12. Defendants also criticize Dr. Wells for not including an analysis of all 22 AstraZeneca trials in his expert report. However, AstraZeneca’s counsel received the data files from plaintiffs’ counsel and questioned Dr. Wells about the files at his deposition. See AstraZeneca’s Mot. to Exclude Wells, Ex. B [hereinafter Wells Dep.] at 46:10-48:4, No. 2:19-cv-00850, ECF No. 34-4; see also *Reed v. Binder*, 165 F.R.D. 424, 429 (D.N.J. Mar. 27, 1996) (“The test of a[n expert] report is whether it was sufficiently complete, detailed and in compliance with the [Federal Rules of Civil Procedure] so that surprise is eliminated, unnecessary

Dr. Wells's testimony is unclear as to precisely when he decided to exclude AstraZeneca's four-week studies from his analysis of AstraZeneca's data. Dr. Wells testified that his decision to exclude the four-week studies was not made after he completed an initial analysis of the AstraZeneca data; rather, he did so "early on" when he read a comment by a PRAC member that highlighted the potential issues with studies shorter than twelve weeks and when he became aware that Takeda, in contrast to AstraZeneca, had submitted only those studies to PRAC that were longer than three months, consistent with the PRAC member's comment.²³³ Dr. Wells testified that that he "wanted to follow the same rules across . . . the two analyses. And so that's when [he] made the decision" to exclude the data from the four-week studies from his analysis of AstraZeneca data.²³⁴ Other parts of Dr. Wells's testimony are a bit murkier as to

depositions are avoided, and costs are reduced.""). As set forth in more detail herein, Defendants, however, have not demonstrated that Dr. Wells decided to exclude the four-week studies after performing an initial analysis of AstraZeneca's data.

²³³ Wells Dep. 83:1-21. European Meds. Ass'n, Signal Assessment Report 11 ("The limitation in duration [of renal function adverse events in clinical trials ≥ 12 weeks duration] is based on the Kidney Disease Outcomes Quality Initiative (KDOQI) definition of CKD."). At the time of Takeda's submissions to PRAC, KDOQI defined CKD as the presence of kidney damage and/or decreased GFR for three or more months. *Compare* Nat'l Kidney Foundation, Kidney Disease Outcomes Quality Initiative, Clinical Practice Guidelines For Chronic Kidney Disease: Evaluation, Classification and Stratification 44-59 (2002), https://www.kidney.org/sites/default/files/docs/ckd_evaluation_classification_stratification.pdf (EMA definition), *with* Kidney Disease Improving Global Outcomes, KDIGO 2012 Clinical Practice Guideline for the Evaluation and Management of Chronic Kidney Disease 5 (2012), https://kdigo.org/wp-content/uploads/2017/02/KDIGO_2012_CKD_GL.pdf.

²³⁴ Wells Dep. 83:13-21.

exactly when he made the decision to exclude the four-week studies.²³⁵ However, Defendants have not identified any testimony that he actually performed any statistical analysis of the AstraZeneca data before he decided to exclude the four-week studies.

Dr. Wells has provided other explanations for his decision to exclude four-week studies: the comment by the PRAC member;²³⁶ his discussions with Dr. Lafayette and Dr. Powers, whom Dr. Wells understood to say that they would not expect to see elevated eGFR in four weeks;²³⁷ his review of literature;²³⁸ and the results of his heterogeneity analysis of the data of the four-week studies.²³⁹ Thus, even if he decided to exclude the four-week studies after he performed an initial analysis of all 22 studies from AstraZeneca's PRAC data, Dr. Wells has adequately explained his reasons for doing so.

²³⁵ Dr. Wells testified that one of the reasons he did not need to do a subgroup analysis before excluding the four-week studies from the AstraZeneca data from his analysis was because he had spoken to two nephrologists retained by plaintiffs' counsel in this litigation, Dr. Richard Lafayette and Dr. David Powers, and they told Dr. Wells that the four-week studies would not show an effect. Wells Dep. 142:9-143:3. At another point, Dr. Wells testified that he could not remember whether he had performed any statistical analysis prior to speaking to them in around February or March 2021. Wells Dep. 145:14-24. At another point, Dr. Wells testified that it was his intent to exclude the four-week studies from his analysis of AstraZeneca's data before he performed any of his statistical analyses because he "wanted to have a balance between what Takeda did and what AstraZeneca did." Wells Dep. 83:22-84:10.

²³⁶ Wells Dep. 83:13-21.

²³⁷ Wells Dep. 170:24-172:12.

²³⁸ Wells Dep. 145:19-146:3, 147:4-7.

²³⁹ AstraZeneca's Mot. to Exclude Wells, Ex. C [hereinafter Wells Expert Report] at 6-7, App. A at Figures 1-2, No. 2:19-cv-00850, ECF No. 34-5.

Defendants also argue that Dr. Wells's analyses are internally inconsistent – and thus unreliable – because he included an eight-week study in his analysis of the AstraZeneca data but only used twelve-week studies in his analysis of the Takeda data. They point to the decisions in the *Byetta* litigation for the proposition that such disparate treatment is arbitrary and undercuts the reliability of his opinion.²⁴⁰ However, this is not the apples-to-apples comparison the Defendants suggest – there were no Takeda studies under twelve-weeks submitted to PRAC. Viewing Dr. Wells's decision as to include all studies greater than four-weeks in his analyses, he has treated the AstraZeneca and Takeda data the same. It is simply because there are no Takeda studies under twelve weeks that were submitted to PRAC that there are none included in his analyses of Takeda's data.

To the extent Defendants are arguing that Dr. Wells's inclusion of the eight-week AstraZeneca study data undercuts reliability because it is inconsistent with one of his grounds for exclusion of the AstraZeneca four-week study data, the argument is unpersuasive.²⁴¹ As explained above, while Dr. Wells did note that one of his grounds for excluding four-week study data was that Takeda had not submitted data

²⁴⁰ See Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Wells 8; Mem. in Supp. of Defs.' Mot. to Exclude Wells 8; *In re Incretin-Based Therapies Prods. Liab. Litig.*, 524 F. Supp. 3d 1007, 1038 (S.D. Cal. 2021); *In re Byetta Cases*, No. JCCP4574, 2021 WL 2462800, at *5-6 (Cal. Super. Ct. Apr. 6, 2021).

²⁴¹ Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Wells 10-11; Mem. in Supp. of Defs.' Mot. to Exclude Wells 10-11.

from studies less than twelve weeks' duration, his testimony also reflected other grounds for excluding studies of four weeks' duration. To the extent Defendants seek to challenge Dr. Wells on his decisions, it is a matter for cross-examination as to the explanations he has provided, not a basis for exclusion.²⁴²

AstraZeneca and Takeda cite out-of-circuit federal and state court decisions in litigation involving the drug Byetta, in which Dr. Wells's testimony was excluded as unreliable.²⁴³ The facts in those cases are distinguishable. In those cases, unlike here, Dr. Wells could not explain why it made sense to exclude data from one randomized clinical trial ("RCT") but not another, and it was the plaintiffs' counsel who decided which data to exclude from his analysis.²⁴⁴ Unlike in this case, in *Byetta*, Dr. Wells erroneously excluded a study from his meta-analysis based on a misunderstanding of the facts about that study and did not correct that error when he learned of the correct facts.²⁴⁵

²⁴² *Daubert*, 509 U.S. at 596; *see also Heller*, 167 F.3d at 152.

²⁴³ *See* Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Wells 8 (citing *In re Incretin-Based Therapies Prods. Liab. Litig.*, 524 F. Supp. 3d at 1037-40; *In re Byetta Cases*, 2021 WL 2462800, at *5-6); Mem. in Supp. of Defs.' Mot. to Exclude Wells 8 (citing same).

²⁴⁴ *See In re Incretin-Based Therapies Prods. Liab. Litig.*, 524 F. Supp. 3 at 1038; *In re Byetta Cases*, 2021 WL 2462800, at *5-6.

²⁴⁵ *See In re Byetta Cases*, 2021 WL 2462800, at *6; *In re Incretin-Based Therapies Prods. Liab. Litig.*, 524 F. Supp. at 1038.

Defendants' final challenge to the reliability of Dr. Wells's testimony is that he used summary statistics instead of patient-level data.²⁴⁶ While Defendants argue that patient-level data of all of the AstraZeneca studies would change his results, they do not argue that patient-level data of the same studies Dr. Wells actually used, excluding the four-week studies, would change the results of the analyses that Dr. Wells performed. Further, Defendants do not dispute that the summary-level data that Dr. Wells analyzed were data that they themselves provided to PRAC and fail to explain why relying on those summary-level data, even if they were not the best data, should result in exclusion of his testimony. Rather, these points are ones that Defendants can make on cross-examination.

3. Fit

AstraZeneca and Takeda also challenge Dr. Wells's testimony on the grounds that it does not fit the case because it pertains only to their PRAC submissions, which they may choose not to introduce at trial.²⁴⁷ While AstraZeneca's counsel indicated at oral argument that one cannot assume AstraZeneca will introduce PRAC data at trial, neither Plaintiff Rieder nor AstraZeneca sought to exclude or limit evidence of PRAC in their motions *in*

²⁴⁶ Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Wells 11; Mem. in Supp. of Defs.' Mot. to Exclude Wells 11.

²⁴⁷ Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Wells 4-7; Defs.' Joint Mem. to Exclude Wells 4-7.

limine. Takeda's counsel indicated at oral argument that Takeda does not plan to introduce PRAC data at trial.²⁴⁸

At this time, it is unclear whether evidence of data provided to PRAC or PRAC's analysis or conclusions will be introduced into evidence at trial in any of the six Bellwether Trial Cases. To the extent such evidence is admissible, Dr. Wells's analysis satisfies the fit prong.

C. Dr. David Charytan

The PSC seeks to offer an opinion on general causation from Dr. David Charytan that the use of PPIs increases the risk of adverse renal outcomes, including development of CKD. AstraZeneca has moved to exclude Dr. Charytan, claiming that his testimony is unreliable because he purportedly used a conclusion-oriented methodology for evaluating medical literature and studies and he was purportedly inconsistent and biased in the weight that he gave to the study findings that support his opinion.²⁴⁹ For the reasons set forth below, I recommend that AstraZeneca's motion to exclude Dr. Charytan's general causation testimony be denied.

1. Qualifications

AstraZeneca does not challenge Dr. Charytan's qualifications, and there is no basis in the record to question his qualifications to offer his stated opinions.

²⁴⁸ Oral Args. 16:3-7, Apr. 4, 2022.

²⁴⁹ Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Pls.' General Causation Experts 17-23, No. 2:19-cv-00850, ECF No. 37-1.

2. Reliability

a. Use of Bradford Hill Criteria

Dr. Charytan's testimony is based upon a significant body of medical literature that he opines supports a causal relationship between PPIs and CKD. He reviewed observational studies, including Lazarus *et al.* (2016) and Xie *et al.* (2016), and meta-analyses of observational studies, as well as individual case reports and case series.²⁵⁰ He concluded that "the observational studies, in the aggregate" demonstrate a causal relationship between PPI use and kidney disease.²⁵¹ In forming his opinion, Dr. Charytan relied on the Bradford Hill criteria, nine metrics commonly used by epidemiologists to distinguish a causal connection from a mere association.²⁵²

AstraZeneca does not dispute that the Bradford Hill criteria are a well-recognized methodology for assessing causation that can satisfy the *Daubert* reliability standard.²⁵³ However, AstraZeneca relies on the Third Circuit's statement

²⁵⁰ Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Pls.' General Causation Experts, Ex. BB [hereinafter Charytan Expert Report] at 19-22, No. 2:19-cv-00850, ECF No. 37-30.

²⁵¹ Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Pls.' General Causation Experts, Ex. C at 201:3-13 [hereinafter Charytan Dep.] No. 2:19-cv-00850, ECF No. 37-5.

²⁵² See Charytan Expert Report 34-37; *see, e.g., In re: Zolofit*, 858 F.3d at 795 (citing and explaining Bradford Hill criteria).

²⁵³ See Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Pls.' General Causation Experts 15-16; *In re: Zolofit*, 858 F.3d at 796; *Glynn v. Merck Sharp & Dohme Corp. (In re Fosamax (Alendronate Sodium) Prods. Liab. Litig.)*, No. 11-5304, 2013 U.S. Dist. LEXIS 51552, at *10 (D.N.J. Apr. 10, 2013).

that “[t]o ensure that the Bradford Hill/weight of the evidence criteria ‘is truly a methodology, rather than a mere conclusion-oriented selection process . . . there must be a scientific method of weighting that is used and explained.’”²⁵⁴ AstraZeneca argues that Dr. Charytan’s assessment of study findings using the Bradford Hill criteria was “arbitrary” and that the methodology he applied to evaluate and weigh these study findings was a “conclusion-oriented selection process” as opposed to “scientific method.”²⁵⁵

The Third Circuit has held that if an expert applies a recognized methodology unevenly “without explanation, this raises an inference of unreliable application of methodology.”²⁵⁶ Accordingly, in assessing reliability, it is necessary to address the Dr. Charytan’s application of the Bradford Hill criteria and his explanations for any apparent inconsistencies.

b. Application of Bradford Hill Criteria

Dr. Charytan explained at considerable length his application of the Bradford Hill criteria and his underlying reasoning in affording varying degrees of weight to the numerous studies he reviewed.²⁵⁷ His expert report and deposition testimony

²⁵⁴ *In re: Zolof*, 858 F.3d at 796 (citing *Magistrini v. One Hour Martinizing Dry Cleaning*, 180 F. Supp. 2d 584, 607 (D.N.J. 2002)).

²⁵⁵ *See In re: Zolof*, 858 F.3d at 796.

²⁵⁶ *Id.* at 797.

²⁵⁷ Three pages of his expert report and a significant portion of his deposition testimony discuss each of the nine Bradford Hill criteria in relation to the medical literature he reviewed. *See* Charytan Expert Report 34-37; Charytan Dep. 187:11-215:23.

discuss the numerous randomized controlled trials (“RCTs”), observational studies, reports, and case series that he reviewed before offering his opinion that there is an increased risk of CKD when using PPIs.²⁵⁸ Dr. Charytan’s report and testimony also reflect that he identified and discussed the comparative strengths and weaknesses of different types of studies (*e.g.*, RCTs vs. observational studies),²⁵⁹ as well as design and other limitations that affect the reliability of those studies in detecting potential causal relationships.²⁶⁰

Thus, to the extent Dr. Charytan does not give all of the literature equal weight, that decision is not “without explanation” and therefore does not, on its face, undermine the reliability of his application of the Bradford Hill criteria.²⁶¹ As a general matter, criticisms of an expert’s explanations for reliance on, or rejection of, particular studies, are appropriately addressed through cross-examination, not through wholesale exclusion of the expert testimony.²⁶² That is the appropriate course here.

²⁵⁸ Charytan Expert Report 16-24.

²⁵⁹ Charytan Dep. 190:5-191:25, 260:7-266:17, 272:4-8, 302:1-304:1.

²⁶⁰ See Charytan Expert Report 19-24; Charytan Dep. 192:9-194:19, 303:22-318:6.

²⁶¹ See *In re: Zolof*, 858 F.3d at 797.

²⁶² See *Hoffeditz*, 2017 U.S. Dist. LEXIS 123493, at *13-14. In its reply brief, AstraZeneca cites *Loeffel Steel Prods., Inc. v. Delta Brands, Inc.*, 387 F. Supp. 2d 794, 800 (N.D. Ill. 2005), but that out-of-circuit case is factually distinguishable. See Reply Mem. in Further Supp. of AstraZeneca’s Mot. to Exclude Pls.’ General Causation Experts 3, No. 2:19-cv-00850, ECF No. 55. There, unlike here, the court excluded the testimony as unreliable because the expert used a unique, idiosyncratic definition of an economic term that was not peer-reviewed or generally accepted in the profession and relied on defendant-provided information the validity of which he was “incapable of assessing.” *Loeffel Steel Prods., Inc.*, 387 F. Supp. 2d at 803-07.

AstraZeneca's other specific criticisms do not demonstrate that Dr. Charytan's methodology was so arbitrary and unreliable as to require exclusion under Rule 702 and *Daubert*.

First, AstraZeneca criticizes Dr. Charytan for not applying a specific evaluation tool when assessing "the potential for bias in each of the observational studies on which he relies."²⁶³ In particular, AstraZeneca argues that Dr. Charytan's disagreement with a conclusion in an FDA Department of Epidemiology review that the Lazarus *et al.* (2016) and Xie *et al.* (2016) studies suffered from design flaws which precluded finding a causation link between the use of PPIs and developing CKD is unreliable because he did not use "any formal tool to assess it."²⁶⁴ However, AstraZeneca cites no law requiring the use of a "formal tool." Dr. Charytan explained his reasoning: he testified that he believed FDA's findings were too conservative and failed to look at some evidence and science that he would have considered.²⁶⁵ The issue implicated here – "evaluation of possible biases or confounding factors found in the studies" – is properly addressed through cross-examination, rather than exclusion.²⁶⁶

²⁶³ See Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Pls.' General Causation Experts 22.

²⁶⁴ Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Pls.' General Causation Experts 23.

²⁶⁵ Charytan Dep. 292:2-294:12.

²⁶⁶ See PSC's Mem. in Opp'n to AstraZeneca's Mot. to Exclude Pls.' General Causation 9, ECF No. 743; *Fosamax* 2013 U.S. Dist. LEXIS 51552, at *10-11 (allowing a general

Second, AstraZeneca asserts that Dr. Charytan's criticism of the reliability of the Moayyedi *et al.* 2019 study because of, among other things, its reliance on telephone interviews, while simultaneously relying on the Lazarus study, which also used telephone interviews, is inconsistent and arbitrary.²⁶⁷ Dr. Charytan testified, however, that it is not the telephone interview technique itself that can result in bias, but the purpose and execution of the telephone interviews,²⁶⁸ which he evaluated when determining how to assess the risk of bias.²⁶⁹ He explained that the Moayyedi study failed to explain sufficiently how investigators obtained information during their phone calls.²⁷⁰ Dr. Charytan also noted additional grounds for questioning the reliability of the Moayyedi study.²⁷¹ Dr. Charytan has provided an explanation for

causation expert to testify when the expert's methodology was sufficiently reliable and explicitly noting that any issues could be addressed on cross-examination).

²⁶⁷ Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Pls.' General Causation Experts 19.

²⁶⁸ Charytan Dep. 306:8-13, 307:7-9. Dr. Charytan admitted the bias introduced by the use of the telephone to obtain information would be present in RCT and observational studies and explains, "you have to get into the weeds and figure out exactly what questions they asked, when they were asking it, how, what information they were seeking, but...it's not specific to the telephone interview per se, or the use of telephone...I think it depends on the questions asked...and the information being looked for."

²⁶⁹ Charytan Dep. 305:8-308:2.

²⁷⁰ See Charytan Dep. 306:8-308:13; Charytan Expert Report 23.

²⁷¹ These additional grounds included that the PPI portion of the study was designed to detect gastrointestinal bleeding prevention as opposed to CKD; creatinine levels, which are a common indicator of kidney function, were only tested during initial screening instead of with routine checks; and over 22% of the participants already had CKD at the start of the study. Charytan Expert Report 22-23.

the purported inconsistencies that AstraZeneca can probe and challenge on cross-examination.

Third, AstraZeneca criticizes Dr. Charytan's conclusion that the three-year follow up period in Moayyedi "may have been too short to detect most cases of CKD."²⁷² Dr. Charytan identified several reasons why a longer reporting period may be preferential, including under-reporting or delayed reporting of symptoms when interviewed during studies or questioned by doctors in less-obvious cases.²⁷³ Again, AstraZeneca can challenge Dr. Charytan's explanation on cross-examination.

Finally, AstraZeneca argues that Dr. Charytan should have given more weight than he did to the Attwood article, which did not identify CKD as a serious adverse event associated with PPI use.²⁷⁴ The Attwood article summarizes certain safety data obtained from two AstraZeneca trials, titled SOPRAN and LOTUS, where researchers studied the effects of PPIs omeprazole and esomeprazole, respectively.²⁷⁵ Dr. Charytan provided several reasons why he does not believe the

²⁷² See Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Pls.' General Causation Experts 19; Charytan Dep. 306:14-307:9, 308:3-8.

²⁷³ See Charytan Dep. 169:7-172:10.

²⁷⁴ Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Pls.' General Causation Experts 20.

²⁷⁵ Stephen E. Attwood *et al.*, *Long-term safety of proton pump inhibitor therapy assessed under controlled, randomized clinical trial conditions: data from the SOPRAN and LOTUS studies*, 41 *Alimentary Pharmacology & Therapeutics* 1162, 1162 (2015).

findings of the two trials disprove his opinion that PPI use can cause CKD.²⁷⁶ The trials were designed to evaluate the effectiveness of PPIs, rather than renal safety. There was no detailed description of the data on kidney function reported. The mean age of participants was young, and the trials excluded people with “significant comorbidities, suggesting that they enrolled populations at low risk of kidney disease.”²⁷⁷ The sample sizes for the two trials were small, 154 and 266 participants, respectively.²⁷⁸ In short, Dr. Charytan provided an explanation for why the fact that CKD was not identified as a serious adverse event associated with PPI use during either the SOPRAN or LOTUS trials did not necessarily mean that PPI use is not a risk factor for development of renal disease.²⁷⁹ Again, AstraZeneca can cross-examine him as to whatever flaws it sees in that explanation.²⁸⁰

3. Fit

AstraZeneca does not challenge the fit of Dr. Charytan’s testimony, and there is no basis in the record to question the fit of his testimony.

²⁷⁶ Charytan Expert Report 23.

²⁷⁷ Charytan Expert Report 23.

²⁷⁸ Charytan Expert Report 23.

²⁷⁹ Charytan Expert Report 23.

²⁸⁰ Dr. Charytan explained that CKD “would rarely be reported as a [serious adverse event (“SAE”)] because it’s generally not going to be considered as an SAE unless you’re specifically looking for it in the trial and defining it as such” and that “this would be an issue where trying to assess the occurrence of CKD in a clinical trial on the basis of SAE reports would likely lead to marked under-counting of the events.” Charytan Dep. 313:6-9, 314:13-16.

D. Dr. Wajahat Mehal

The PSC proffered Dr. Wajahat Mehal, a gastroenterologist and professor at the Yale School of Medicine, to testify regarding general causation, the adequacy of Nexium labeling, and issues regarding marketing and purported overprescribing of PPIs. AstraZeneca moved to exclude all of Dr. Mehal’s testimony, arguing that he is not qualified to testify regarding marketing and the adequacy of labeling, his testimony regarding general causation is unreliable, and his testimony regarding an objective test for diagnosing gastroesophageal reflux disease (“GERD”) is irrelevant and does not fit the case.²⁸¹ The PSC subsequently agreed that it does not oppose AstraZeneca’s motion to the extent it seeks to prevent Dr. Mehal from testifying “on the adequacy of the label in a regulatory context.”²⁸²

For the reasons set forth below, I recommend that the motion to exclude Dr. Mehal be granted to the extent it seeks to prevent Dr. Mehal from testifying about the adequacy of the labeling in the regulatory context, per the stipulation from the PSC, medical marketing generally, and the impact of medical marketing on sales, but otherwise denied. However, this would not prevent Dr. Mehal from testifying about the “Montreal definition” in cases where specific testing for GERD did not occur.

²⁸¹ Mem. of Law in Supp. of AstraZeneca’s Mot. to Exclude Pls.’ General Causation Experts 33-35.

²⁸² Joint Report to the Special Master Re *Daubert* Mot. Oral Args. ¶ 10.

1. Qualifications

AstraZeneca argues that Dr. Mehal is not qualified to offer an expert opinion on the adequacy of labeling or on the role of medical marketing and its impact on the prescribing of PPI products.²⁸³

Dr. Mehal earned his medical degree from the University of Oxford in England in 1989 and subsequently completed his residency in internal medicine and fellowship in gastroenterology at the Yale School of Medicine.²⁸⁴ He has been on the faculty at Yale since 2001.²⁸⁵ He has been board-certified in internal medicine since 1997 and obtained a sub-certification in gastroenterology in 2001.²⁸⁶ He is currently a tenured Professor of Medicine, a practicing clinician specializing in digestive diseases and gastroenterology, and a researcher in the areas of gastrointestinal disease and tissue injury and repair.²⁸⁷

At his deposition, Dr. Mehal testified that he is not a regulatory expert “so [he] won’t be speaking about regulatory issues such as label warnings

²⁸³ Mem. of Law in Supp. of AstraZeneca’s Mot. to Exclude Pls.’ General Causation Experts 39-40.

²⁸⁴ Mem. of Law in Supp. of AstraZeneca’s Mot. to Exclude Pls.’ General Causation Experts, Ex. A [hereinafter Mehal Expert Report] at 4-5, No. 2:19-cv-00850, ECF No. 37-3.

²⁸⁵ Mehal Expert Report 5.

²⁸⁶ Mehal Expert Report 5.

²⁸⁷ Mehal Expert Report 5.

specifically.”²⁸⁸ Dr. Mehal and the PSC also stipulated at his deposition that Dr. Mehal will not be offering an opinion about the adequacy of the 2020 labeling.²⁸⁹ Subsequently, the PSC stipulated that it does not oppose AstraZeneca’s motion to the extent it seeks to prevent Dr. Mehal from testifying “on the adequacy of the label in a regulatory context.”²⁹⁰ Thus, there is no dispute that Dr. Mehal cannot testify about the adequacy of the labeling.

Dr. Mehal proposes to opine regarding medical marketing of PPIs and its impact. In his report he cites articles noting the increase in spending on medical marketing across all medications, including PPIs, from 1997 to 2016.²⁹¹ He also opines on some concerns regarding medical marketing by citing to articles regarding the economic impact of coupons and rebates and selective information, and notes that marketing strategies include disease awareness campaigns prior to launching a product. He states that changes in medical marketing over the past 20 years have had “direct bearing on the high use of PPIs” and that the large numbers of patients exposed to PPIs worldwide are “attributable in great part to medical marketing efforts of the defendant manufacturers.”²⁹²

²⁸⁸ Mem. of Law in Supp. of AstraZeneca’s Mot. to Exclude Pls.’ General Causation Experts, Ex. B [hereinafter Mehal Dep.] at 360:12-14, No. 2:19-cv-00850, ECF No. 37-4.

²⁸⁹ Mehal Dep. 357:2-22.

²⁹⁰ Joint Report to the Special Master Re *Daubert* Mot. Oral Args. ¶ 10.

²⁹¹ Mehal Expert Report 48-49.

²⁹² Mehal Expert Report 48, 50.

The PSC asserts that Dr. Mehal's opinions regarding medical marketing are based on the marketing he has seen and his clinical judgment as a gastroenterologist and prescriber of PPIs and is supported by peer-reviewed medical literature.²⁹³ However, Dr. Mehal does not identify any marketing he has seen as a clinician or in preparing his testimony, and his citations to information about medical marketing spending overall and general criticisms about medical marketing generally do not provide a basis to link unidentified marketing of unidentified drugs to an increase in PPI use. The PSC does not suggest that Dr. Mehal has any formal training on medical marketing or its impact on sales of PPIs or any particular product. I credit Dr. Mehal's own testimony on the matter when he testified that he is *not* an expert on regulatory labeling or medical marketing issues.²⁹⁴

2. Reliability

As with Dr. Charytan, AstraZeneca does not dispute that Dr. Mehal's general causation opinion is based on a review and lengthy discussion of the abundant literature on PPIs, including RCTs, observational studies, reports, case series, and meta-analyses and consideration of the Bradford-Hill factors.²⁹⁵ And, as with Dr. Charytan, AstraZeneca argues that Dr. Mehal's opinion is not reliable because it

²⁹³ PSC's Mem. in Opp'n to AstraZeneca's Mot. to Exclude Pls.' General Causation 102-04.

²⁹⁴ Mehal Dep. 80:10-81:21.

²⁹⁵ See Mehal Expert Report 23-47, 52-63; Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Pls.' General Causation Experts 17-24, 33-35.

disagrees with his conclusions regarding the methodological strength and reliability of the various studies and his conclusion that the RCTs are not conclusive on the issue of causation.²⁹⁶ AstraZeneca argues that Dr. Mehal’s analysis was result-driven and he “failed to base his opinion on ‘sufficient facts and data’ or reliably apply ‘principles and methods to the facts of the case’ to satisfy Rule 702 standards of admissibility.”²⁹⁷

In particular, AstraZeneca does not agree with Dr. Mehal’s analysis in which he does not deem as dispositive the results of two RCTs, the Moayyedi and Attwood studies, which he determined to be flawed.²⁹⁸ Dr. Mehal explained that he did not give the Moayyedi and Attwood studies conclusive weight because they “were not specifically designed to investigate whether PPIs cause CKD.”²⁹⁹ His explanation and other discussion in his report are sufficient to satisfy the Third Circuit’s *Daubert* reliability standards.³⁰⁰

AstraZeneca also asserts that Dr. Mehal “cherry-picked” and did not use a consistent methodology because he did not reject observational studies on which he relied that, like the RCTs, “were not specifically designed” to investigate whether

²⁹⁶ See Mem. of Law in Supp. of AstraZeneca’s Mot. to Exclude Pls.’ General Causation Experts 33-35.

²⁹⁷ See Mem. of Law in Supp. of AstraZeneca’s Mot. to Exclude Pls.’ General Causation Experts 33-35.

²⁹⁸ Mem. of Law in Supp. of AstraZeneca’s Mot. to Exclude Pls.’ General Causation Experts 33-35; Mehal Expert Report 30-32.

²⁹⁹ Mehal Expert Report 31-32.

³⁰⁰ See *Heller*, 167 F.3d at 152; *In re TMI Litig.*, 193 F.3d at 665; *Paoli*, 35 F.3d at 744-46; *Hoffeditz*, 2017 U.S. Dist. LEXIS 123493, at *13-14.

PPIs cause CKD.³⁰¹ AstraZeneca maintains that this disparate treatment indicates that he did not reliably weigh all the evidence, but instead gave more weight to studies that support his desired conclusion.³⁰² However, this ignores the extensive explanation in Dr. Mehal's report and deposition of the multiple factors that informed his determination regarding what weight he assigned to a study's findings, including the scale, design, power, and manner of collecting data.³⁰³

The reliability requirement does not mandate a particular type of study, and AstraZeneca does not cite to any authority that would prohibit an expert from looking beyond RCTs to other types of studies to assess general causation.³⁰⁴ Here, Dr. Mehal has explained his reasoning for not giving conclusive weight to the RCTs and giving greater weight to other studies. AstraZeneca can cross-examine Dr.

³⁰¹ Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Pls.' General Causation Experts 34.

³⁰² Reply Mem. in Further Supp. of AstraZeneca's Mot. to Exclude General Causation Experts 33, No. 2:19-cv-00850, ECF No. 55.

³⁰³ See Mehal Expert Report 23-47, 52-63; see also Mehal Expert Report 25 ("[E]ach of the described lines of evidence have both strengths and weaknesses, but they complement each other. Thus, if the findings are consistent across multiple studies of varying types, even if not perfectly correlated, they provide a very high level of conviction that a cause-and-effect relationship has been established. In addition to examining the types of studies which are providing evidence, it is important to examine the tempo of the findings. Were there a few early studies based on incomplete data, which could not be reproduced, or has the evidence been building up year after year as more data is collected? In my opinion, the latter is true regarding PPI-induced nephrotoxicity of PPIs."); Mehal Dep. 244:7-24, 417:24-418:7.

³⁰⁴ See, e.g., *Heller*, 167 F.3d at 154-55 (declining to require a physician to rely on definitive published studies to make a diagnosis because the physician reliably used a different generally accepted methodology).

Mehal to challenge his reasoning, but I believe that the proposed testimony satisfies the Third Circuit's reliability requirement.

AstraZeneca relies on *Hollander v. Sandoz Pharms. Corp.*³⁰⁵ to argue that Dr. Mehal's opinion is unreliable because it relies on observational studies which it claims cannot, standing alone, establish causation.³⁰⁶ But that out-of-circuit case is distinguishable. Unlike in this case, where Dr. Mehal relies on numerous epidemiological studies and meta-analyses, the experts in *Hollander* did not rely on epidemiological studies.³⁰⁷ And, unlike in *Hollander*, Dr. Mehal is not relying on evidence that the court has determined is unreliable.³⁰⁸

AstraZeneca also seeks to exclude Dr. Mehal's proposed testimony that the majority of patients who stop using PPIs resume taking them due to exacerbation of their symptoms because Dr. Mehal based his opinion on studies in healthy patients, not patients with GERD.³⁰⁹ However, the record reflects that Dr. Mehal based his opinion on studies, multiple peer-reviewed publications, and meta-analyses,³¹⁰ as well as his own experience as a practicing gastroenterologist who prescribes PPIs

³⁰⁵ 289 F.3d 1193 (10th Cir. 2002).

³⁰⁶ See Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Pls.' General Causation Experts 34.

³⁰⁷ *Hollander*, 289 F.3d at 1211.

³⁰⁸ *Id.* at 1208.

³⁰⁹ Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Pls.' General Causation Experts 38.

³¹⁰ Mehal Expert Report 15.

for GERD.³¹¹ He testified that in order to determine “whether PPIs can result in rebound, you need to do it in healthy patients, because these are people who don’t have GERD. If you do this study in GERD patients...and they get symptoms, it’s difficult to know if it’s rebound to PPIs or if it’s just recurrence of their prior disease.”³¹² Given Dr. Mehal’s experience and the literature upon which he relies, I do not find AstraZeneca’s argument persuasive. AstraZeneca can challenge Dr. Mehal on cross-examination on these issues at trial.

3. Fit

Plaintiffs’ claims include that “[d]efendants made statements, affirmations and representations of fact concerning their PPI products through their advertisements, educational campaigns and multi-platform marketing and promotional initiatives directed at consumers, patients and healthcare providers promoting unnecessary and dangerous use and overuse of their PPI products.”³¹³ Dr. Mehal opines that the broadened, functional definition of GERD developed at a meeting in Montreal in 2006 (the “Montreal definition”) and included in a publication funded by AstraZeneca led to an increase in GERD diagnoses and subsequent “overuse” of PPIs. AstraZeneca argues that Dr. Mehal’s testimony on this issue should be excluded because it does not fit the issues in this case.

³¹¹ Mehal Dep. 40:4-19.

³¹² Mehal Dep. 169:6-13.

³¹³ Pls.’ Master Long Form Compl. and Jury Demand ¶ 381, ECF No. 118.

It is undisputed that PPIs are used to treat GERD. It is also undisputed that plaintiffs' claims include the assertion that multiple defendants overpromoted PPIs through various methods, including educational campaigns. However, not every case involves the allegation that a particular plaintiff was put on PPIs as a result of the Montreal definition. If in any case there is evidence that the individual plaintiff was placed on PPIs as a result of the application of the Montreal definition of GERD, rather than testing specifically confirming GERD, Dr. Mehal's testimony on the issue, as applied to that individual plaintiff, would satisfy the fit standard. Otherwise, I recommend that his proposed testimony on this issue should be excluded.

E. Dr. Derek Fine

The PSC has proffered Dr. Derek Fine, a nephrologist at Johns Hopkins Hospital, as a specific causation expert to testify that Plaintiff Rieder's use of Nexium was a cause of his CKD, as well as the progression of his kidney disease.³¹⁴ Dr. Fine has also offered opinions on general causation in a separate report from his opinions on Plaintiff Rieder,³¹⁵ but AstraZeneca has not moved to exclude Dr. Fine's

³¹⁴ AstraZeneca's Mot. to Exclude Pls.' Specific Causation Experts, Ex. X [hereinafter Fine Specific Causation Expert Report] at 8-12, No. 2:19-cv-00850, ECF No. 35-26.

³¹⁵ PSC's Br. Opposing Defs.' Mots. for Summ. J. on Failure to Warn Preemption, Ex. 329 [hereinafter Fine General Causation Expert Report], ECF No. 731-83.

general causation opinions.³¹⁶ AstraZeneca asserts that Dr. Fine’s specific causation testimony as to Plaintiff Rieder should be excluded as unreliable because Dr. Fine purportedly fails to explain why hypertension and obesity are not the only causes of Plaintiff Rieder’s CKD and because there is not a sufficient evidentiary basis for Dr. Fine’s conclusion that Nexium substantially contributed to Plaintiff Rieder’s CKD.³¹⁷ For the reasons set forth below, I recommend that AstraZeneca’s motion to exclude Dr. Fine’s specific causation testimony as to Plaintiff Rieder be denied.

1. Qualifications

AstraZeneca does not challenge Dr. Fine’s qualifications, and there is no basis in the record to question his qualifications to offer his stated opinions.

2. Reliability

AstraZeneca, relying on *Heller*, argues that Dr. Fine does not reliably explain why hypertension and obesity are not the only causes of Plaintiff Rieder’s CKD.³¹⁸ In *Heller*, the Third Circuit, citing *Paoli*, stated that “where a defendant points to a plausible alternative cause and the doctor offers *no* explanation for

³¹⁶ At oral argument, AstraZeneca’s counsel acknowledged that AstraZeneca is not challenging Dr. Fine’s testimony on general causation. Oral Args. 118:2-3, Apr. 4, 2022 (“[W]e are not challenging Dr. Fine’s general causation report here[.]”).

³¹⁷ Mem. Of Law in Supp. of AstraZeneca’s Mot. to Exclude Pls.’ Specific Causation Experts 26-27, No. 2:19-cv-00850, ECF No. 35-1 [hereinafter AstraZeneca’s Specific Causation Mem.].

³¹⁸ AstraZeneca’s Specific Causation Mem. 28.

why he or she has concluded that was not the sole cause, that doctor's methodology is unreliable."³¹⁹

Dr. Fine does not dispute that hypertension, when poorly controlled, can cause CKD, but disagrees that hypertension was the sole cause of Plaintiff Rieder's CKD.³²⁰ Dr. Fine testified that Plaintiff Rieder's hypertension was generally well controlled with medication so that his blood pressure was not severely elevated in most of the available readings, with the exception of one time in 2003.³²¹ As further evidence that hypertension was not the sole cause of Plaintiff Rieder's CKD, Dr. Fine pointed to times when Plaintiff Rieder's GFR was declining even when his blood pressure was well controlled.³²² Dr. Fine explained "there were times when [Plaintiff Rieder's blood pressure] was beautifully controlled, and GFR was still overall declining. So I don't think there is enough evidence to say that hypertension was a substantial contributor."³²³

AstraZeneca challenges Dr. Fine's explanation by noting that the goal for CKD patients is to keep systolic blood pressure at less than 130 mmHg and that Plaintiff Rieder's systolic blood pressure was at or above 130 mmHg on forty-six of the ninety

³¹⁹ *Heller*, 167 F.3d at 156.

³²⁰ AstraZeneca's Mot. to Exclude Pls.' Specific Causation Experts, Ex. Y [hereinafter Fine Dep.] at 71:16-72:3, 160:1-8, No. 2:19-cv-00850, ECF No. 35-27.

³²¹ Fine Dep. 322:6-10.

³²² Fine Dep. 303:11-305:17.

³²³ Fine Dep. 322:11-15.

dates.³²⁴ But AstraZeneca did not question Dr. Fine at his deposition as to the significance, if any, of Plaintiff Rieder's occasionally but not consistently high systolic blood pressure readings or how elevated his systolic blood pressures would need to have been, how consistently, and for how long, in order for Dr. Fine to have considered hypertension to have caused Plaintiff Rieder's CKD. Overall, the record does not support a claim that Dr. Fine has provided no reasoned, scientifically based explanation for his exclusion of hypertension as a sole cause of Plaintiff Rieder's CKD. AstraZeneca can cross-examine Dr. Fine on these points at trial, but it has not shown that his testimony on this issue is so unreliable as warrant exclusion under *Daubert*.

The same is true as to obesity. Dr. Fine acknowledges that obesity has been associated with the development of CKD, although he observes that the actual role of obesity in the etiology of CKD is controversial.³²⁵ Dr. Fine observed that Plaintiff Rieder was only mildly, not extremely, obese.³²⁶ Dr. Fine further opined that the changes in Plaintiff Rieder's creatinine levels (which can indicate kidney disease) over time were inconsistent with kidney disease in a person with his actual level of

³²⁴ Reply Mem. in Further Supp. of AstraZeneca's Mot. to Exclude Specific Causation Experts 31-32, No. 2:19-cv-00850, ECF No. 54.

³²⁵ Fine Specific Causation Expert Report 11 (opining that "[i]t is more likely that obesity instead associates with diabetes and hypertension such that any association of obesity with renal injury is driven by obesity's impact on these two health conditions." (internal citation omitted)).

³²⁶ Fine Dep. 275:2-6.

obesity.³²⁷ AstraZeneca disputes Dr. Fine's conclusions as to the role of obesity in his CKD, arguing that Plaintiff Rieder's BMI was over twenty-five for an extended period of time and that his proteinuria levels decreased when he lost weight.³²⁸ These points are appropriately the subject of cross-examination, but do not support exclusion of Dr. Fine's testimony.

3. Fit

AstraZeneca does not challenge the fit of Dr. Fine's testimony, and there is no basis in the record to question the fit of his testimony.

F. Dr. Gilbert Moeckel

The PSC has proffered the testimony of Dr. Gilbert Moeckel on the animal studies performed by PPI manufacturers, including AstraZeneca and Takeda, as part of the drug approval process. AstraZeneca has moved both to disqualify Dr. Gilbert Moeckel from testifying³²⁹ and to exclude his testimony, contesting his qualifications to opine on animal pathology and the reliability and fit of his testimony.³³⁰ Takeda has also moved to exclude Dr. Moeckel from testifying on the

³²⁷ Fine Dep. 303:19-305:17.

³²⁸ Reply Mem. in Supp. of AstraZeneca's Mot. to Exclude Pls.' Specific Causation Experts 32-33, No. 2:19-cv-00850, ECF No. 54.

³²⁹ Mem. of Law in Supp. of AstraZeneca's Mot. to Disqualify Dr. Moeckel, No. 2:19-cv-00850, ECF No. 36-1 [hereinafter AstraZeneca's Mem. to Disqualify Moeckel].

³³⁰ Mem. of Law in Supp. of AstraZeneca's Mot. to Exclude Dr. Moeckel 1, No. 2:19-cv-00850, ECF No. 35-1 [hereinafter AstraZeneca's Mem. to Exclude Moeckel].

same grounds of qualification, reliability, and fit.³³¹ The PSC stipulated that it does not oppose the Defendants' motions to the extent that they seek to prevent Dr. Moeckel from offering an opinion that PPIs cause acute or chronic kidney disease in humans or from using animal evidence to prove general causation.³³²

For the reasons set forth below, I recommend that AstraZeneca's motion to disqualify Dr. Moeckel be denied. I recommend that the Defendants' motions to preclude Dr. Moeckel from offering an opinion that PPIs cause acute and chronic kidney disease in humans or from using animal evidence to prove general causation be granted, per the PSC's stipulation, but they be denied as to the rest of Dr. Moeckel's opinions. To the extent that Defendants have raised issues about whether Dr. Moeckel's testimony and opinions are credible and well-supported by the data that he reviewed, they can address such issues through cross-examination of Dr. Moeckel at trial.

1. Motion to Disqualify Dr. Moeckel

AstraZeneca contends that Dr. Moeckel "surreptitiously switched sides" by becoming an expert for plaintiffs after meeting once with counsel for AstraZeneca, leading AstraZeneca to "operate[] under a reasonable assumption that the parties entered a confidential consulting relationship for nearly four years."³³³ In

³³¹ Mem. of Law in Supp. of Takeda's Mot. to Exclude Dr. Moeckel 1-2, No. 2:17-cv-06124, ECF No. 80 [hereinafter Takeda's Mem. to Exclude Moeckel].

³³² Joint Report to the Special Master Re *Daubert* Mot. Oral Args. ¶ 12.

³³³ Mem. of Law in Supp. of AstraZeneca's Mot. to Disqualify Dr. Gilbert Moeckel 1, No. 2:19-cv-00850, ECF No. 36-1.

opposition, the PSC argues that while Dr. Moeckel met with AstraZeneca's counsel once and subsequently received notebooks with medical literature from them, he was never retained by them nor did he receive any payment from them or learn any confidential information from them.³³⁴ For the reasons set forth below, I recommend that AstraZeneca's Motion to Disqualify Dr. Moeckel be denied.

The record reflects the following facts relevant to AstraZeneca's motion to disqualify: On November 14, 2016, counsel for AstraZeneca from the law firm Ice Miller LLP telephoned Dr. Moeckel and then sent a confirmatory e-mail stating "[t]hank you for your time today to speak with Katherine regarding consulting with us in the Nexium/kidney litigation. At your convenience, would you please forward us your retainer agreement via return e-mail."³³⁵ Two days later, counsel at Ice Miller sent another e-mail reiterating their interest in working with Dr. Moeckel and requesting a CV.³³⁶ In response, Dr. Moeckel provided a fee schedule and a one-page document titled "CONSULTING AGREEMENT BETWEEN DR. GILBERT MOECKEL AND ICEMILLER LEGAL COUNSEL" that was signed by Dr.

³³⁴ See AstraZeneca's Mot. to Disqualify Dr. Gilbert Moeckel, Ex. E, [hereinafter Declaration of Katherine Althoff] No. 2:19-cv-00850, ECF No. 36-7; Oral Args. 43:1-44:1, Apr. 4, 2022.

³³⁵ AstraZeneca's Mot. to Disqualify Dr. Gilbert Moeckel, Ex. A [Hawkins E-mail, Nov. 14 & 16, 2016] No. 2:19-cv-00850, ECF No. 36-3.

³³⁶ Hawkins E-mail, Nov. 14 & 16, 2016.

Moeckel.³³⁷ This so-called “Consulting Agreement” contained Dr. Moeckel’s fee terms but did not contain any provisions regarding the scope of work or confidentiality. Ice Miller never signed that “Consulting Agreement,” nor did it ever provide Dr. Moeckel with any retainer agreement of its own.³³⁸

Dr. Moeckel met with AstraZeneca’s counsel on January 16, 2017, for two hours. AstraZeneca asserts that it shared confidential information with Dr. Moeckel at that meeting and would not have done so if it did not believe that a confidential consulting relationship had existed with him.³³⁹ However, at no time did counsel for AstraZeneca provide Dr. Moeckel with any form of nondisclosure or confidentiality agreement.³⁴⁰ The PSC argues that no confidential information was disclosed at that meeting; rather, the PSC asserts, based on the declaration of AstraZeneca counsel, that Dr. Moeckel and AstraZeneca counsel discussed the following topics: Dr. Moeckel’s professional background and research, medical literature, AstraZeneca’s

³³⁷ AstraZeneca’s Mot. to Disqualify Dr. Gilbert Moeckel, Ex. C [Legal Fee Schedule] No. 2:19-cv-00850, ECF No. 36-5; AstraZeneca’s Mot. to Disqualify Dr. Gilbert Moeckel, Ex. D [hereinafter Consulting Agreement Between Dr. Gilbert Moeckel & IceMiller] No. 2:19-cv-00850, ECF No. 36-6.

³³⁸ Oral Args. 31:3-24, 48:10-49:4, Apr. 4, 2022.

³³⁹ Mem. of Law in Supp. of AstraZeneca’s Mot. to Disqualify Dr. Gilbert Moeckel 5-6. Declaration of Katherine Althoff 2.

³⁴⁰ Oral Args. 42:11-14, Apr. 4, 2022.

scientific and medical theories, Dr. Moeckel's initial professional opinions, and other potential consulting experts.³⁴¹

On January 30, 2017, AstraZeneca counsel sent Dr. Moeckel two binders containing medical literature about PPIs.³⁴² Dr. Moeckel testified that he never reviewed them.³⁴³ Counsel for AstraZeneca asserts that 28 of the 30 articles contained in these binders were referenced in his expert report.³⁴⁴

AstraZeneca's counsel and Dr. Moeckel had no contact from January 2017 until November 2020. During this period, Dr. Moeckel did not submit any invoices, nor did he receive any payment from AstraZeneca's counsel.³⁴⁵ When AstraZeneca's counsel contacted Dr. Moeckel in November 2020, he stated, "[u]nfortunately I am not available for legal consultation in the foreseeable future."³⁴⁶

Dr. Moeckel began working with Plaintiffs' counsel in late 2018, and his expert report was provided to Defendants in April 2021.³⁴⁷ He was deposed in July

³⁴¹ PSC's Resp. to Mot. to Disqualify Moeckel 14-15 (citing Declaration of Katherine Althoff).

³⁴² Declaration of Katherine Althoff 3.

³⁴³ AstraZeneca's Mot. to Disqualify Dr. Gilbert Moeckel, Ex. B at 209:20-22 [hereinafter Moeckel Dep., July 7, 2021] No. 2:19-cv-00850, ECF No. 38-4.

³⁴⁴ AstraZeneca's Br. in Resp. to Pls.' Opp'n to Defs.' Mot. to Disqualify Gilbert Moeckel 11 n.8, No. 2:19-cv-00850, ECF No. 49.

³⁴⁵ See Moeckel Dep. 201:9-11, July 7, 2021; Oral Args. 33:22-24, Apr. 4, 2022.

³⁴⁶ AstraZeneca's Mot. to Disqualify Dr. Gilbert Moeckel, Ex. H [Moeckel E-mail, Nov. 24, 2020] No. 2:19-cv-00850, ECF No. 36-16.

³⁴⁷ See Moeckel Dep. 59:6-8, July 7, 2021; Oral Args. 39:19-20, Apr. 4, 2022 (Mr. Pennock: So it was in November of 2018 that we first started having contact with him.); Declaration of Katherine Althoff 3.

2021, at which time AstraZeneca’s counsel first raised the issue of their earlier communications with him.

In the Third Circuit, in determining whether disqualification is appropriate, the court must make two determinations: (1) whether it was “objectively reasonable for the party seeking disqualification to have concluded that a confidential relationship existed with the expert[.]” and (2) whether the party seeking disqualification “disclose[d] any confidential information to the expert[.]”³⁴⁸

AstraZeneca argues that it had an objectively reasonable belief that it had retained Dr. Moeckel and shared confidential information with him at the January 2017 meeting and in its selection of materials it sent him thereafter. The PSC and Dr. Moeckel dispute these conclusions. Dr. Moeckel testified at his deposition that he did not believe he had been retained and that he never looked at the notebooks.³⁴⁹

In considering whether there was an objectively reasonable belief of retention, courts in the Third Circuit have considered: (1) the length of the relationship and the frequency of contact; (2) whether the moving party funded or directed the formation of the opinion to be offered at trial; (3) whether the parties entered into a formal confidentiality agreement; (4) whether the expert was retained to assist in the

³⁴⁸ See *Fed. Trade Comm’n v. Innovative Designs, Inc.*, No. 16-1669, 2018 U.S. Dist. LEXIS 42510, at *16-17 (W.D. Pa. Mar 15, 2018); see also *In re Diet Drugs Prods. Liab. Litig.*, No. 07–20144, 2009 WL 1886131, at *3 (D.N.J. June 26, 2009).

³⁴⁹ Moeckel Dep. 202:6-12, 209:20-22, July 7, 2021.

litigation; (5) whether the expert was paid a fee; and (6) whether the expert was asked to agree not to discuss with opposing parties or counsel.³⁵⁰ The burden of proof rests on the party moving for disqualification.³⁵¹

While there was undoubtedly sloppiness in documentation and communication by everyone involved, I conclude that, collectively, the facts here do not support an objectively reasonable belief that Dr. Moeckel was retained by AstraZeneca's counsel. First, there is no retention agreement signed by both parties. Dr. Moeckel sent AstraZeneca's counsel a fee schedule and a document that he signed that purported to be a "Consulting Agreement" in November 2016; however, AstraZeneca's counsel never signed it. Nor did AstraZeneca's counsel ever send Dr. Moeckel a standard retainer agreement, as is typical when counsel retain experts for litigation. Such retainer agreements typically contain confidentiality provisions, which Dr. Moeckel's one-page document did not, as well as terms relating to scope of work, payment amount and timing, and billing requirements. Dr. Moeckel's "consulting agreement" looks nothing like a typical expert retainer agreement. It does not appear to be different from his fee schedule other than the document's title.

³⁵⁰ *Innovative Designs, Inc.*, 2018 U.S. Dist. LEXIS 42510, at *17-18 (quoting *Syngenta Seeds, Inc. v. Monsanto Co.*, No. 02-1331, 2004 U.S. Dist. LEXIS 19817, at *2 (D.N.J. Sept. 27, 2004)).

³⁵¹ *See, e.g., Syngenta Seeds, Inc.*, No. 02-1331, 2004 U.S. Dist. LEXIS 19817, at *2 (D.N.J. Sept. 27, 2004) (declining to disqualify an expert witness when the moving party did not point to specific confidential information that it disclosed to the expert).

Second, Dr. Moeckel never submitted a bill nor received any compensation from AstraZeneca. Third, the nearly four-year period where there was absolutely no communication between Dr. Moeckel and AstraZeneca's counsel hardly supports a belief that they were working together. Finally, as noted above, there was no confidentiality agreement or other agreement spelling out with whom Dr. Moeckel could or could not communicate.

With regard to disclosure of confidential information, AstraZeneca states in its Motion that during the January 2017 meeting, "Ms. Althoff shared confidential case strategy with Dr. Moeckel and solicited his opinions on key defense arguments as well as on potential consulting experts."³⁵² However, as noted, AstraZeneca never provided a confidentiality or retention agreement to Dr. Moeckel at that meeting or any other time. It is somewhat incongruous now to assert an expectation that the discussion at that meeting was confidential when no effort at the time was made to memorialize that expectation in a legally binding document, as is commonplace when working with third parties in litigation. Moreover, Dr. Moeckel testified that the topics discussed at that meeting did not involve disclosure of confidential information.³⁵³

AstraZeneca also asserts that the selection of materials for the binders sent to Dr. Moeckel in January 2017 reflects attorney thought processes and thus are also

³⁵² AstraZeneca's Mem. to Disqualify Moeckel 12.

³⁵³ Moeckel Dep. 204:7-209:22, July 7, 2021.

confidential information.³⁵⁴ First, Dr. Moeckel testified that he never looked at these notebooks.³⁵⁵ The fact that he submitted no bills to AstraZeneca for time spent reviewing them tends to support that testimony. Additionally, AstraZeneca has not presented any evidence that the materials included in the notebooks were not publicly available. The fact that 28 out of 30 of them were referenced in Dr. Moeckel's expert report, according to AstraZeneca, does not prove that he was using confidential information provided to him by AstraZeneca's counsel in his work for plaintiffs; it merely shows that what he was provided were materials relevant to the issues in this litigation.

The factual record does not support an "objectively reasonable" belief that Dr. Moeckel had been retained by AstraZeneca under the criteria utilized by courts in the Third Circuit. Accordingly, I recommend that AstraZeneca's motion to disqualify Dr. Moeckel be denied.

2. Motions to Exclude Dr. Moeckel

AstraZeneca and Takeda argue that Dr. Moeckel's testimony should be excluded under *Daubert* on the grounds that he is not qualified to give the proposed testimony, his methodology is not reliable, and his proposed testimony does not fit with the issues presented in these cases. For the reasons set forth below, I recommend that the motions to exclude Dr. Moeckel's expert testimony be denied.

³⁵⁴ AstraZeneca's Mem. to Disqualify Moeckel 12.

³⁵⁵ Moeckel Dep. 209:20-22, July 7, 2021.

a. Qualifications

Defendants' fundamental argument is that Dr. Moeckel is not qualified to give the proposed testimony because his primary expertise is in human, not animal, renal pathology.³⁵⁶ While it is correct that his primary expertise is in human pathology, Dr. Moeckel has also conducted and reviewed animal pathology on multiple occasions throughout his lengthy career.

Dr. Moeckel's general qualifications are undoubtedly impressive. He is a Professor of Pathology at the Yale School of Medicine, where the University named a research laboratory after him.³⁵⁷ He is board-certified in pathology and has over thirty years of medical experience. He has served as a peer reviewer for the National Science Foundation and the American Heart Association and is on the Editorial Board for several medical journals, including the Journal of the American Society of Nephrology, Nephrology Dialysis & Transplantation, and the Kidney International Scholarly Research Network.³⁵⁸ He has authored over 100 reports and publications related to CKD.³⁵⁹ Additionally, his deposition testimony makes clear

³⁵⁶ AstraZeneca's Mem. to Exclude Moeckel 8; Takeda's Mem. to Exclude Moeckel 8.

³⁵⁷ AstraZeneca's Mot. to Exclude Op. Test. from Dr. Moeckel, Ex. A, [hereinafter Moeckel Expert Report (AstraZeneca)] No. 2:19-cv-00850, ECF No. 35-3; Takeda's Mot. to Exclude Dr. Moeckel, Ex. B [hereinafter Moeckel Expert Report (Takeda)] No. 2:17-cv-06124, ECF No. 80-4.

³⁵⁸ Moeckel Expert Report (AstraZeneca) 3; Moeckel Expert Report (Takeda) 4.

³⁵⁹ Moeckel Expert Report (AstraZeneca) Ex. A 7, 9-10; Moeckel Expert Report (Takeda) Ex. A 7, 9-10.

that he has conducted and reviewed studies relating to renal toxicity in animals on multiple occasions throughout his career.³⁶⁰ He has been a speaker on a number of topics involving renal toxicity in animals.³⁶¹

The fact that Dr. Moeckel may not have precise expertise relating to beagle kidneys, as argued by AstraZeneca, does not render him unqualified to offer any opinions about preclinical animal studies conducted by the Defendants in the six Bellwether Trial Cases. Rather, the extent of his experience is an appropriate topic for cross-examination at trial. Likewise, Dr. Moeckel's opinions about the presence or absence of CPN in some of the rat studies differ from those of Defendants' experts. Because the Court's gatekeeping function extends only to the reliability of an expert's methodology, not the Court's opinion on the correctness of the expert's conclusions, the discrepancies between the opinions of Dr. Moeckel and Defendants' experts can be addressed through cross-examination at trial.

Third Circuit law makes clear that an expert need not be the best or most qualified to testify at trial.³⁶² It is quite possible that there are other experts who are

³⁶⁰ See Moeckel Dep. 72:11-23, July 7, 2021 (testifying that he looked at hundreds upon hundreds of rat and mouse kidneys and is very familiar with their kidney pathologies).

³⁶¹ Moeckel Expert Report (AstraZeneca) Ex. A, at 7, 9-10 (Dr. Moeckel has given presentations on the protective effect of Citrate on renal phosphate crystal formations in rats, and the effect of dietary phosphate and dehydration of crystal formation in rats).

³⁶² See *Pineda*, 520 F.3d at 244 (“[I]t is an abuse of discretion to exclude testimony simply because the trial court does not deem the proposed expert to be the best

better able to address the animal studies and what they do or do not show. That, however, is not a basis for excluding entirely the testimony of an expert with robust credentials like Dr. Moeckel's.³⁶³

b. Reliability

Defendants challenge Dr. Moeckel's methodology of reviewing slides of animal kidneys, particularly that the slides were not blinded as to drug administration, he did not use a numerical grading system, he kept only "mental notes" and did not create a written record of his review process, and he only looked at certain studies, excluding ones that were "negative."³⁶⁴ Essentially, they argue

qualified or because the proposed expert does not have the specialization that the court considers most appropriate." (citing *Holbrook v. Lykes Bros. S.S. Co.*, 80 F.3d 777, 782 (3d Cir. 1996)).

³⁶³ It also seems rather incongruous for AstraZeneca to argue on the one hand that Dr. Moeckel should be disqualified because of AstraZeneca's prior communications with him and expressed desire to have him work with them and on the other hand that he is not qualified to testify. Counsel at oral argument attempted to explain this apparent incongruity by asserting that it was their intent to have him testify only as to human pathology. Oral Args. 53:14-16, Apr. 4, 2022. But, since there is no retention agreement spelling out what he was to do, this cannot be confirmed. Furthermore, the materials provided to Dr. Moeckel by AstraZeneca included at least one animal study. Moeckel Expert Report (AstraZeneca) Ex. B; Moeckel Expert Report (Takeda) Ex. B.

³⁶⁴ AstraZeneca's Reply in Supp. of Defs.' Mot. to Exclude Expert Test. of Dr. Gilbert Moeckel 7, No. 2:19-cv-00850, ECF No. 48 [hereinafter AstraZeneca's Reply Br. on Moeckel] (noting that Dr. Moeckel "specifically stated that he did not take any notes, other than 'mental notes,' and only took screenshots of the slides that looked interesting to him, not all 1,100 available slides"); Takeda's Mem. to Exclude Moeckel 2 (stating that "Dr. Moeckel simply selected a handful of slides that he knew were not in the animal studies control group, made 'mental notes,' and used

that Dr. Moeckel “cherry-picked” data that supported his conclusions and had no discernable methodology.³⁶⁵

Defendants have raised legitimate concerns about the objectivity and replicability of Dr. Moeckel’s methodology. The question is whether his methodology is so unreliable as to warrant exclusion. While this is a close call, I recommend that the testimony be allowed, recognizing that these methodological issues can be raised during cross-examination to challenge his conclusions.

Defendants rely on *In re Diet Drugs*, which excluded an expert’s proposed testimony that utilized a scientifically unreliable methodology.³⁶⁶ In that case, the expert, Dr. Colin Bloor, visually observed pathology slides from a particular study and recorded narrative descriptions of what he saw in each. He organized those descriptions into verbal categories and then collapsed and converted the categories into numerical scores. Each step was done without reexamining the slides. Because the slides were not prepared in a manner that would best reveal heart structures, Dr. Bloor could only comment to a reasonable degree of medical

them in his report, discarding the thousands of other slides that did not support his conclusion.”).

³⁶⁵ AstraZeneca’s Reply Br. on Moeckel 2 (arguing that Dr. Moeckel’s methodology lacks scientific basis, and his report is premised upon cherry-picked data and litigation-driven, preformulated opinions); Takeda’s Mem. to Exclude Moeckel 2.

³⁶⁶ See AstraZeneca’s Mem. to Exclude Moeckel 13 (citing *In re Diet Drugs Prods. Liab. Litig.*, No. 99-cv-20593, 2001 U.S. Dist. LEXIS 1174 (E.D. Pa. Feb. 1, 2001); Takeda’s Mem. to Exclude Moeckel 13 (citing same)).

certainty as to the myocardium of each rat's heart, not the valves that were the heart structure at issue in that case.³⁶⁷

The court in *In re Diet Drugs* emphasized the fact that Dr. Bloor's semi-quantitative scoring methodology had not been demonstrated to have a known or potential rate of error, was not shown to be replicable (because Dr. Bloor scored his recategorizations of the narrative descriptions and never actually assigned a numerical score to any of the slides), and did not have any control standards in place for application of the scoring system.³⁶⁸

Dr. Moeckel's methodology is distinguishable from Dr. Bloor's in *In re Diet Drugs*. As noted above, Dr. Moeckel's thirty years of experience in reviewing pathology and review of relevant literature informed his analysis. He states that he reviewed thousands of histopathology slides and compared his findings between dosed groups and control groups, males and females, and adults and neonatal animals.³⁶⁹ He did not create a subjective numerical valuation of data as Dr. Bloor did. His purpose was to evaluate lesions identified by Defendants' pathologists in

³⁶⁷ *In re Diet Drugs Prods. Liab. Litig.*, No. 99-cv-20593, 2001 U.S. Dist. LEXIS 1174, at *31 (E.D. Pa. Feb. 1, 2001).

³⁶⁸ *Id.* at *37.

³⁶⁹ Moeckel Expert Report (AstraZeneca) 7-8; Moeckel Expert Report (Takeda) 6-7.

their review of Defendants’ preclinical studies and determine whether he concurred in their characterization.³⁷⁰

Dr. Moeckel’s methodology is also distinguishable from that described in *Carnegie Mellon Univ. v. Hoffmann-LaRoche, Inc.*, also relied upon by Defendants.³⁷¹ In that case, the expert, who had a significant financial interest in the outcome of the litigation, departed from standard practices by reinterpreting published data without considering the quality of the data, experimental controls that refuted his opinion, and more probable explanations for the published results.³⁷² Unlike that expert, Dr. Moeckel states that he reviewed every slide in the forty studies provided to him by AstraZeneca and Takeda, documented his own pathological findings, and compared his findings to a large body of scientific literature and related materials, ultimately selecting a handful of studies to discuss in his expert reports.³⁷³ Thus, Dr. Moeckel’s methodology is “ground[ed] in the methods and procedures of science” and can be appropriately addressed on cross-examination.³⁷⁴

³⁷⁰ See Moeckel Expert Report (AstraZeneca) 6; Moeckel Expert Report (Takeda) 5-6.

³⁷¹ AstraZeneca’s Reply Br. on Moeckel 8 (citing *Carnegie Mellon Univ. v. Hoffmann-LaRoche, Inc.*, 55 F. Supp. 2d 1024, 1034 (N.D. Cal 1999)). Takeda’s Mem. to Exclude Moeckel 13.

³⁷² *Carnegie Mellon Univ. v. Hoffmann-LaRoche, Inc.*, 55 F. Supp. 2d 1024, 1034 (N.D. Cal 1999).

³⁷³ See Moeckel Expert Report (AstraZeneca) 4-8; Moeckel Expert Report (Takeda) 5-6.

³⁷⁴ Daubert, 509 U.S. at 590.

The Third Circuit in *Paoli* held that to determine reliability, a court must look at the scientific validity of the methodology upon which the expert bases an opinion.³⁷⁵ The expert must, at a minimum, identify the methodology or procedures used or explain how they reached their conclusions.³⁷⁶ While Dr. Moeckel's description of his methodology is not perfect, its flaws can be addressed and highlighted for the jury through cross-examination. On balance, I do not believe the flaws pointed out by Defendants as to Dr. Moeckel's methodology rise to the level of its probative value being substantially outweighed by its prejudicial effect.³⁷⁷

c. Fit

The crux of Defendants' argument regarding lack of fit is that Dr. Moeckel's opinions about the presence of CPN versus acute tubular injuries in rat kidneys would not be helpful to a trier of fact in trying to make determinations about the presence or absence of data supporting a link between PPIs and CKD in humans.

Defendants' position seems to be that there is a lack of fit because (1) Dr. Moeckel is opining only about what he sees occurring in the dosed animal group in the preclinical studies, not about the ultimate issue of whether PPIs can cause CKD in humans, and (2) Dr. Moeckel's conclusions about those preclinical studies are that

³⁷⁵ *Paoli*, 35 F.3d at 742.

³⁷⁶ *See Sikkelee*, 522 F. Supp. 3d at 158; *see also Buzzerd*, 669 F. Supp. 2d at 514.

³⁷⁷ *See Bruno*, 2015 U.S. Dist. LEXIS 156339, at *140 (internal quotation omitted).

the animals experienced acute tubular lesions (rather than CPN as AstraZeneca concluded) and that findings of acute lesions are irrelevant to discussions of CKD.

I recommend that these arguments be rejected for two reasons: First, Dr. Moeckel reviewed pathology from animals in preclinical studies submitted to FDA in support of the manufacturers' NDAs for these PPIs. Defendants may not agree with Dr. Moeckel's conclusions and can challenge them on cross-examination, but there is no dispute that animal studies provide FDA, the scientific community, and juries with important information about a drug's safety and efficacy. That Dr. Moeckel is not being offered to testify as to whether PPIs can cause acute or chronic injuries in humans, per the stipulation by the PSC, does not render his observations about these preclinical studies and their proper interpretation irrelevant.

Second, a key issue in this litigation is the relationship between a finding of AKI and CKD. Dr. Moeckel opines that some dosed animals experienced acute lesions in the preclinical studies and that these lesions were incorrectly identified by Defendants as CPN.³⁷⁸ Defendants will have an opportunity to cross-examine Dr. Moeckel on the significance, if any, of these opinions to the issues in these cases. The fact that they involve acute injuries does not mean they do not fit with the issues

³⁷⁸ Moeckel Expert Report (AstraZeneca) 26-27; Moeckel Expert Report (Takeda) 21.

in this case, in particular given Dr. Ross's testimony regarding untreated AKIs.³⁷⁹

In *Paoli*, the court noted that the standard for valid scientific connection to the pertinent inquiry is higher than bare relevance and must help the trier of fact understand the evidence.³⁸⁰ Dr. Moeckel's work may not help the jury in making determinations about the presence or absence of a link between PPIs and CKD, but it may be helpful in understanding the nonclinical studies relied upon by Defendants.

V. CONCLUSION

For the reasons set forth herein, I recommend that the *Daubert* and related motions discussed in this Report and Recommendation be decided as set forth above.³⁸¹

A proposed order is attached.

Respectfully submitted,



ELLEN REISMAN
Special Master

³⁷⁹ Compare Moeckel Expert Report (AstraZeneca) 25-27, and Moeckel Expert Report (Takeda) 21, with Ross Expert Report 94.

³⁸⁰ See *Paoli*, 35 F.3d at 743, 745; *Daubert*, 509 U.S. at 591 (“Rule 702’s ‘helpfulness’ standard requires a valid scientific connection to the pertinent inquiry as a precondition to admissibility.”).

³⁸¹ To the extent the parties have raised in their briefing any arguments not expressly addressed in this R&R, I have considered them and recommend that they be rejected.

EXHIBIT 1

1 UNITED STATES DISTRICT COURT
2 DISTRICT OF NEW JERSEY

3 _____
4 IN RE: PROTON-PUMP 2:17-MD-2789(CCC)(MF)
5 INHIBITOR PRODUCTS (MDL 2789)
6 LIABILITY LITIGATION

7 Judge Claire C. Cecchi

8 This Document Relates to:

9 All Actions
10 _____

11 - - -

12 REMOTE HEARING

13 BEFORE SPECIAL MASTER ELLEN REISMAN

14 Monday, April 4, 2022

15 - - -

16 This is the Remote Hearing In Re:

17 Proton-Pump Inhibitor Products Liability Litigation,
18 commencing at 10:00 a.m., Monday, April 4, 2022,
19 before Juliana F. Zajicek, Registered Professional
20 Reporter, Certified Shorthand Reporter and Certified
21 Realtime Reporter.

22 - - -

23

24

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1 THE SPECIAL MASTER: All right. So let's go on
2 the record. And so what we are doing today is oral
3 argument on the various Daubert motions and on our
4 defense motions for summary judgment. And a couple of
5 things I just wanted to say upfront.

6 I looked at the outline that we did, the
7 procedures outline, and I think we left out the
8 Mann -- Mann's name on -- on the oral argument on
9 plaintiffs' omnibus motion to exclude experts. I
10 think it should have been on there.

11 I also noted that it looks to me like we
12 are having argument on four plaintiff experts and five
13 defense experts and I -- you know, the timeframes are
14 a little bit longer as to the plaintiffs' experts,
15 shorter as to the defense experts. I'm obviously, you
16 know, if need be will allow people to have some
17 additional time, although I'm really hoping that we
18 don't end up using all of the time. I think, as I was
19 sitting down and calculating this this morning, it is
20 a lot of time, and believe it or not I have actually
21 read all of this stuff. There are many large
22 notebooks strewn around this room, and because I -- I
23 have to read things in hard copy. So we killed a lot
24 of trees here.

1 I would appreciate, and I think we said
2 this in the procedures, if there are particular points
3 that you think might be unappreciated from the -- the
4 papers, that you emphasize those, but other --
5 otherwise, you know, I don't -- you don't need to
6 rehash everything that's in the papers because I've
7 read them and my partner Andy has read them, and so,
8 you know, I think -- I think maybe we could not spend
9 all day together, as delightful as I'm sure that will
10 be.

11 One thing -- one thing I wanted to raise
12 just in the way of full disclosures upfront, there
13 is -- I don't know any of these experts personally
14 except one who I did meet years ago, somewhere between
15 15 and 20 years ago, and that's Mary Ann Mann, and I
16 think I had one meeting with her in connection with a
17 case I was working on at the time. Not surprising,
18 I've been doing this for 37 years. Honestly, I would
19 have thought more of them might have crossed my path,
20 but -- but I just wanted people to know that in the
21 interest of full disclosure.

22 So with that, let's get started and
23 somebody should raise their hand, whoever is going to
24 address the motion.

1 I think Wells is the first one?

2 Okay.

3 MS. DU PONT: Good morning, Special Master. My
4 name is Julie du Pont. I'm going to be speaking on
5 behalf of AstraZeneca.

6 And if I have your permission, do you mind
7 if I share some slides to assist with my argument?

8 THE SPECIAL MASTER: Sorry, I'm not the most
9 technologically sophisticated. Yes, it is fine for
10 you to share some slides. Okay.

11 MS. DU PONT: Can you see those?

12 THE SPECIAL MASTER: Yes, I can.

13 MS. DU PONT: Good morning, Special Master.
14 Defendants' brief on Dr. Wells, I think, clearly sets
15 forth the defendants' argument as to why Dr. Wells
16 should be excluded under Daubert, and consistent with
17 what the Special Master just said, I'm not going to
18 belabor and repeat all of those arguments that were
19 set forth in our motions. I think my point today is
20 simply to briefly underscore a few key issues for the
21 Special Master. And that's what I will be doing.

22 First, the central issue in both Rieder
23 and in Bales that the jury will need to decide is
24 whether PPIs caused each of these plaintiffs' chronic

1 kidney disease. Tellingly here, we know that
2 Dr. Wells is not offering an opinion about whether
3 PPIs cause chronic kidney disease.

4 At his deposition he was asked:

5 "...are you offering an opinion that --
6 that your calculation and the change in eGFR
7 establishes to a reasonable degree of medical
8 certainty that PPI use can cause kidney injury?"

9 His answer: "No."

10 And plaintiffs acknowledge in their motion
11 that they are not offering causation -- that he is not
12 offering causation opinions with respect to PPIs and
13 CKD.

14 They likewise state --

15 THE SPECIAL MASTER: Can I ask you a question,
16 can I interrupt and ask you a question?

17 MS. DU PONT: Sure.

18 THE SPECIAL MASTER: Are you saying that any
19 expert who says they are not offering causation
20 opinions should be excluded?

21 MS. DU PONT: No, that's not what I'm saying.
22 What I'm saying is that Dr. Wells' testimony needs to
23 provide -- needs to be relevant to the issue and the
24 issues in this case, and I will add that not only is

1 he not offering causation opinions, he admits he is
2 not doing any hypothesis testing and that he admits
3 that his opinions don't offer any clinical
4 significance.

5 THE SPECIAL MASTER: But aren't there a lot
6 of -- I mean, there are other experts, I mean, I've
7 been through all of them now, who are -- who are
8 offering opinions that do not reach the ultimate
9 conclusion of whether a PPI product caused the
10 plaintiff's CKD and they are still providing relevant
11 and admissible evidence, I believe.

12 So I'm not -- I'm not sure why that would
13 be an -- especially given his field, he is a
14 biostatistician, and they often don't provide
15 causation evidence, they just tell you about the data.

16 MS. DU PONT: Well, Dr. Wells has in other cases
17 provided causation testimony before, but as you can
18 see, he has not offered that here. And not only is he
19 not offering any causation testimony, as I just
20 mentioned, he is -- he is not even testing any
21 relevant hypothesis through his metaanalysis,
22 including the -- the particular hypothesis that PRAC
23 looked at, and that was plaintiffs' argument, was that
24 he was offering some sort of rebuttal to PRAC's --

1 PRAC's opinion, but, in fact, he repeatedly admitted
2 that he wasn't doing any hypothesis testing
3 whatsoever, and that he had no knowledge of what PRAC
4 really does generally or specifically did with respect
5 to PPIs here.

6 So not only is he not offering causation
7 opinion, he doesn't provide any fit to the relevant
8 issues in this case whatsoever.

9 THE SPECIAL MASTER: Well, one question I had,
10 in the plaintiffs' papers, I think they said that the
11 analyses that he is performing were ones that had been
12 requested by PRAC and not done by AZ, is that correct?

13 MS. DU PONT: I don't believe that is correct.

14 What -- what Dr. Wells did was he first
15 conducted the meta-analysis doing what essentially AZ
16 did and PRAC reviewed, which was including the
17 four-week studies. He then did an analysis where he
18 excluded those less than four-week studies, and
19 finally got the opinion that he wanted, that there was
20 a decline in eGFR.

21 THE SPECIAL MASTER: And so are you saying that
22 there was no legitimate scientific basis for him to
23 exclude -- to exclude the four-week studies and
24 that's -- and is that the basis -- I know in your

1 papers you say that his methodology was result driven.

2 Is that the basis for why you say it was
3 result driven?

4 MS. DU PONT: I mean, I think that -- that
5 Dr. Wells offers the explanation that he spoke with
6 some of the plaintiffs' expert nephrologists and they
7 believed that the four-week studies -- the less than
8 four-week studies, I should say, would not add
9 anything, but that is at odds with what PRAC itself
10 said, first of all. And the fact of the matter is the
11 way in which Dr. Wells conducted his analysis suggests
12 it was with -- it was results driven. And what I mean
13 by that is he -- he says -- he puts in his report only
14 the metaanalysis where he excludes the four-week data.

15 When asked after the fact at his
16 deposition whether he had conducted analyses including
17 the four-week data, he explained that he actually did
18 that analyses first and that then didn't find a
19 significant decline in kidney function with that
20 analysis. So he did the second analysis excluding
21 those studies and actually found a decline in kidney
22 function.

23 What is bothersome about that approach is
24 if you thought he was going to conduct the

1 metaanalysis with his -- the intent to exclude those
2 four-week studies, shouldn't he have done that first
3 and then pressure test it by adding them back in? He
4 did not do so. So his after-the-fact explanation sort
5 of defies common sense.

6 If it is okay, Special Master, I can move
7 on to our second argument in the brief?

8 THE SPECIAL MASTER: Yes, go right ahead. Thank
9 you.

10 MS. DU PONT: And here, and I'll just stop
11 sharing my screen, I just want to emphasize the two
12 courts that have recently excluded Dr. Wells for
13 similar results driven meta-analyses. The first is
14 the In Re Incretin case in the Southern District of
15 California decided just last year, where the court
16 found that he had no adequate scientific reason for
17 his metaanalyses, that his method was arbitrary and
18 not scientifically sound. The second case is In Re
19 Byetta, California Supreme -- Superior Court, also
20 decided last year, again, the court found no
21 scientifically reliable basis for Wells' litigation
22 decision-making where he arbitrarily changed his
23 analysis by excluding certain data from his
24 metaanalysis and got a different result.

1 Here we know that Dr. Wells arbitrarily
2 excluded several four-week studies after first
3 conducting an analysis that included them. It was
4 only after excluding those studies that he got the
5 significant decline in kidney function. He then only
6 presented that second analysis in his report.

7 The Special Master should follow the
8 reasoning of In Re Incretin and In Re Byetta and
9 similarly exclude Dr. Wells' opinions here.

10 And I'll reserve the rest of my time.

11 Sorry. Do you have another question?

12 THE SPECIAL MASTER: Okay. Yeah. I assume that
13 you expect to be offering the PRAC data at trial, is
14 that right?

15 MS. DU PONT: That -- that is not necessarily
16 true. I think the part -- that AstraZeneca intends to
17 move to exclude foreign regulatory. Now, whether or
18 not we win that motion is a -- is a decision yet to be
19 decided, but, no, I would not assume that we will be
20 relying on PRAC at trial.

21 THE SPECIAL MASTER: I don't think I have any
22 other questions for you. Thank you.

23 MS. DU PONT: Thank you.

24 THE SPECIAL MASTER: Who is up next?

1 Okay, James.

2 MR. MIZGALA: Good morning, Special Master. I
3 just want to just emphasize a point about PRAC.
4 Takeda did not put PRAC in their preemption and we did
5 our own analysis, our epidemiologist has done his own
6 analysis of the clinical trial data. So we won't be
7 offering the PRAC data, but even if we were, the fact
8 is, is that Wells can't tell you what his analysis
9 mean in terms of the safety of PPIs and no other
10 expert on plaintiffs' side has taken his analysis and
11 said, This is what it means. So what's a jury
12 supposed to do with that when he can't even tell you
13 what the clinical significance of his data is. And
14 I'll reserve the rest of my time unless you have a
15 question.

16 THE SPECIAL MASTER: Okay. Thanks, Jim.

17 Who from plaintiffs' side is going to be
18 responding?

19 Stephanie. Hi.

20 MS. O'CONNOR: Hi, Ellen. Hi.

21 THE SPECIAL MASTER: Okay.

22 MS. O'CONNOR: Stephanie O'Connor for the
23 plaintiffs. And I will be arguing in opposition to
24 both AstraZeneca and Takeda's joint motion, as I

1 understand it to preclude or exclude Dr. Wells.

2 First of all, let me say that all

3 Dr. Wells did was take the same data that -- with

4 regard to AstraZeneca, that AstraZeneca produced to

5 PRAC and conducted a metaanalysis that the PRAC

6 actually asked about in the incident of signal CKD

7 detection back in September of 2016. They asked to

8 receive data on all clinical trials that had looked at

9 kidney function data, gave as examples estimated

10 glomerular filtration, or GFR, and asked for a

11 metaanalysis if available.

12 Now, what the companies did was they

13 provided essentially summary arithmetic measures,

14 summary statistics. They didn't provide individual

15 patient-level data. They provided summaries across

16 studies.

17 In the case of AstraZeneca, who has

18 conducted over 1600 studies, perhaps even 2,000

19 studies, up to that number, they submitted 22 studies

20 in response to Question No. 3 from PRAC seeking

21 information on kidney function.

22 Takeda has conducted hundreds of studies

23 across the three products that they submitted data

24 for, that being lansoprazole, dexlansoprazole, and

1 pantoprazole, submitted a total of seven studies. All
2 right.

3 So to the extent that we hear that there
4 was cherry-picking or selection of studies, it is the
5 defendants actually who have engaged in cherry-picking
6 and selective process in providing information to the
7 PRAC.

8 And the reason it is relevant, not having
9 to do with whether or not PRAC is a foreign regulatory
10 agency, but they cannot use it as both a shield and a
11 sword. They can't say that Dr. Wells can't talk about
12 his statistical interpretation of the same data that
13 was submitted to the regulatory authorities in Europe
14 and yet hold that data up, including in communications
15 with the FDA, to say that the clinical trial data is
16 clean.

17 In the preemption motion they do talk
18 about the significance of the clinical trial data. I
19 heard your question and answer from Ms. DuPont, and as
20 we sit here today, we don't know what the answer is to
21 that. But Dr. Wells should be able to and the
22 plaintiffs should be able to rebut claims by the
23 manufacturer defendants that their clinical trial data
24 is clean and that there is no problem.

1 We've heard it throughout this litigation.
2 It started on science day and it has continued through
3 the depositions of practically every expert that I
4 have defended in this case.

5 THE SPECIAL MASTER: Can I -- can I ask you a
6 question, Stephanie?

7 So they've made the point that, you know,
8 he is not going to talk about, you know, whether PPI's
9 cause CKD in a particular case or more generally
10 and -- and that I think Mr. Mizgala made a comment
11 that he wouldn't be able to tell what the safety
12 data -- what the data mean for safety purposes.

13 What exactly is the testimony that you
14 envision this witness offering and how is that
15 relevant to the case.

16 MS. O'CONNOR: So basically, as we know, and you
17 pointed out in your questioning, Dr. Wells is not a
18 medical doctor. He has conducted a biostatistical
19 analysis, as biostatisticians do, on data, again,
20 submitted by both the manufacturers to PRAC in support
21 of their claim that there is nothing in the clinical
22 trials to be concerned about.

23 By the time Dr. Wells would testify at
24 trial, we will likely have heard from at least two

1 nephrologists, board certified nephrologists, and the
2 jury will have learned through the course of the
3 plaintiffs' case what estimated glomerular filtration
4 rate means, or eGFR. And we all know, sitting here,
5 that a reduction in eGFR is associated with renal
6 disease, all right, a reduction of, I believe it is
7 less than 60 milliliters per minute squared for a
8 period of greater than three months.

9 By the time Dr. Wells gets on the stand,
10 the jury will know what GFR is and he would present
11 the forest plots that are attached as Exhibit A to
12 show where it is the reductions are seen. It is a
13 statistical analysis.

14 He will explain that everything to the
15 left of 1 as seen in every one of the forest plots for
16 both AZ and for Takeda shows a statistically
17 significant reduction in glomerular filtration rate.

18 Now, he is not going to, as a nonmedical
19 person, testify about the significance of that. That
20 will be left to the plaintiffs' nephrology experts of
21 whom two have been designated in Mr. Rieder's case.

22 THE SPECIAL MASTER: I thought I heard one of
23 the -- either Julie or James say that none of the
24 other experts are going to rely on his testimony, his

1 data.

2 Is that -- is that correct?

3 MS. O'CONNOR: I think it is a misstatement of
4 the situation. All of the experts had Dr. Wells'
5 report on their materials considered list.

6 Dr. Ross discusses, because his report was
7 due about a month later, discusses in detail at Pages,
8 I believe it's 363 and 364 of his report, discusses in
9 detail the Wells' metaanalysis, pointing out that
10 while the defendants could have done it, they didn't,
11 and Dr. Wells did the very type of statistically
12 sound, methodologically sound metaanalysis of their
13 clinical trial data.

14 The experts have reviewed Dr. Wells' data,
15 they didn't dispute the data, they formed their own
16 opinions, of course, as experts must and do, but they
17 did consider Dr. Wells' analysis.

18 THE SPECIAL MASTER: Okay. Before we run out of
19 time, I wanted to ask about those two cases where he
20 was excluded. And I don't remember which was which,
21 but one of them did involve, I think, one of the same
22 criticisms the defendants are making here, which is
23 that data were arbitrarily excluded from -- from an
24 analysis and, you know, it seems -- we looked at those

1 cases as well, and it seems somewhat analogous,
2 frankly, to the facts here.

3 Do you have any response to that?

4 MS. O'CONNOR: Yes, I do.

5 First of all, both of the decisions that
6 they cite to concern Byetta, also known as incretin or
7 vice versa. The first of those two cases, which is
8 the incretin decision, came out in March of 2021
9 followed within a month by the Byetta decision. The
10 incretin decision is a District Court of California
11 trial court, and the Byetta decision, again, it's the
12 same product or -- same product, is the State Court in
13 California.

14 So first and foremost, neither of these
15 are Circuit Court cases, appellate-level cases.

16 I think that there is a difference, if you
17 read -- essentially they are saying the same thing,
18 both the State Court and the -- and the Federal Court.

19 First and foremost, the claim that there
20 was no scientific basis for the exclusion of the
21 studies that Dr. Wells excluded in that case, all
22 right. Here we have a much, much different situation.
23 As Dr. Wells described, all right, he did three --
24 basically three things.

1 First, he reviewed the Signal Assessment
2 report by the rapporteur as well as comments by the
3 member states. That is attached as an exhibit to --
4 Exhibit 4 to the Wells opposition.

5 And what I'd like to do, Ellen, if I may,
6 since I think I do have some time left, is read from
7 Page 13 of 26 of Exhibit 4, which is an assessor's
8 comment in a dialogue box in which they are looking at
9 the Takeda data, which is the 12-week or more studies
10 in terms of the duration. And they note that there is
11 a difference, that they submitted studies no less than
12 12 weeks of duration, and the statement, and I read
13 from that document in the dialogue box:

14 "It is reasonable to suppose that shorter
15 trials would tend to be less likely to detect events
16 of interest or evidence of changes in kidney function
17 than longer trials because of their shorter duration.
18 It is unlikely that excluding such trials would bias
19 the results of the analysis away from detecting an
20 association between lansoprazole and CKD or kidney
21 dysfunction."

22 Obviously it includes by definition the
23 four-week studies, the shorter duration studies that
24 Dr. Wells ultimately excluded from his analysis in

1 arriving at his opinions.

2 So he saw this information, then he saw
3 that Takeda itself, in submitting its data and its
4 response to the PRAC, indicated that it was relying
5 upon the KDIGO definition of CKD, which I mentioned
6 earlier, that being a GFR less than 60 milliliters per
7 minute squared for a period of greater than three
8 months. By definition, the four-week studies have no
9 relevance.

10 And finally, the third thing that
11 Dr. Wells did as distinguished from what occurred in
12 the Byetta and the incretin cases is he consulted with
13 two nephrologists who told him, and he disclosed it,
14 they had the opportunity to ask him about it, they
15 asked very little, but they told him that the
16 four-week studies were unlikely to yield any change in
17 GFR that would inform a nephrologist or anyone looking
18 at data like this as to whether there really was a
19 change in renal function.

20 THE SPECIAL MASTER: Okay. Thanks, Stephanie.
21 I think your time is up, but thank you.

22 Julie or James, do you want to respond?

23 MS. DU PONT: I would like to respond, if that's
24 okay.

1 THE SPECIAL MASTER: Yes, go ahead.

2 MS. DU PONT: I first just want to point out
3 that Dr. Ross was specifically asked at his deposition
4 whether he was relying on Dr. Wells' analysis and he
5 specifically answered no.

6 Plaintiffs seem to suggest that Dr. Wells
7 is offering a rebuttal opinion about the kind of
8 analysis that the defendant should have submitted to
9 PRAC, but Dr. Wells has repeatedly admitted that he is
10 not doing any sort of hypothesis testing, including
11 whether he was testing the hypothesis that PRAC was
12 looking at. And, in fact, he has admitted that he
13 doesn't have specific knowledge about what PRAC
14 actually did here or general knowledge about what PRAC
15 does generally.

16 I'd also add that the preemption issue is
17 a legal issue for the court to decide and does not
18 provide a basis for Dr. Wells to offer any opinions to
19 the jury. The Supreme Court held in Albrecht that:

20 "We here decide that a judge, not the
21 jury, must decide the preemption question.

22 "In those contexts where we have
23 determined that the question is 'for the judge and not
24 the jury,' we have also held that 'courts may have to

1 resolve subsidiary factual disputes' that are part and
2 parcel of the broader legal question."

3 Simply put, the jury will not be
4 addressing preemption and so what Dr. Wells said about
5 PRAC has no relevance here.

6 And then, finally, just -- just with
7 respect to -- I'll -- I'll stop there. Thank you.

8 THE SPECIAL MASTER: Okay. James?

9 MR. MIZGALA: Just quickly.

10 Ms. O'Connor mentioned that Wells is going
11 to get up and talk about his analysis and then the
12 jury is going to hear that and somehow the jury is
13 going to know what the clinical significance of an --
14 of his findings are, because these nephrologists,
15 which she didn't name, but the two at issue are Fine
16 and Powers, and I'm looking at Dr. Powers' deposition
17 transcript, and he says that Dr. Wells' report is not
18 one that he had reviewed in connection with this case.

19 So there -- those opinions have never been
20 disclosed, that any one -- any one of their experts
21 has relied on Dr. Wells' analysis. It is not in their
22 response. You'll notice there is a footnote that
23 starts going down that road, but it is incomplete, and
24 so they can't point to any affirmative evidence that

1 any of their experts have relied on Dr. Wells'
2 analysis.

3 What they want to do is throw it out there
4 and let the jury speculate as to what it means, and
5 that's -- that's just not right.

6 THE SPECIAL MASTER: Okay. Thanks.

7 MS. O'CONNOR: Ellen, I'm sorry, may I just
8 address one thing?

9 THE SPECIAL MASTER: Sure.

10 MS. O'CONNOR: Please allow me. Thank you. I
11 appreciate it.

12 With respect to -- I'll just address AZ's
13 argument, I think I've already said what it is that we
14 would prepare, how we would present Dr. Wells. I've
15 heard more than once and I've seen in the papers this
16 business about hypothesis testing.

17 Dr. Wells -- first of all, the EMA didn't
18 ask for hypothesis testing. They asked for a
19 metaanalysis and a metaanalysis includes significance
20 testing, the calculation of confidence intervals.
21 That is something that neither AZ or Takeda did, but
22 Dr. Wells did it.

23 And why did he do it? Because you just
24 can't, to use an analogy, have a jigsaw puzzle with a

1 thousand pieces, put it on the table and say here it
2 is. What you have to do is you've got to connect the
3 dots, you've got to put the pieces together, present
4 the picture and show what it means. And you do it in
5 a statistical interpretation and analysis by doing
6 calculations of confidence intervals by doing
7 significance testing, none of which was done by either
8 of the defendants in this case.

9 THE SPECIAL MASTER: Okay. Thank you.

10 All right. Let's move on to Gilbert
11 Moeckel, and I think there are two motions pending
12 with regard to him. One is the qualification motion
13 and one is a motion to exclude his testimony.

14 And who is going to argue that one?

15 Okay. Katherine, go ahead.

16 MS. ALTHOFF: Hi, good morning, Special Master.
17 My name is Katherine Althoff. I don't think we've met
18 before. So I am pleased to meet you today.

19 THE SPECIAL MASTER: Nice to meet you.

20 MS. ALTHOFF: Nice to meet you. I am
21 representing AstraZeneca on these motions and my
22 colleague James Mizgala from Takeda is also going to
23 be, I think, speaking on these motions as well.

24 As you saw, the motion to disqualify

1 really relates to AstraZeneca, but the motion to
2 exclude addresses both defendants. So I actually have
3 a few slides that I'm going to share as well here.

4 THE SPECIAL MASTER: I'd like to start with
5 the --

6 MS. ALTHOFF: Sure.

7 THE SPECIAL MASTER: -- the motions to
8 disqualify, if we can, because I think, you know, that
9 obviously is -- is -- well, I'd just like to start
10 with that one.

11 MS. ALTHOFF: I agree, because if the -- you
12 know, if he is disqualified then in fact there is not
13 much to talk about on a motion to exclude. So I think
14 you should -- do you have it in front of you, can you
15 see it?

16 THE SPECIAL MASTER: Yes, we see it.

17 MS. ALTHOFF: Okay. Great.

18 So, your Honor, again, with regard to --
19 Special Master, with regard to the motion to
20 disqualify, this one relates to AstraZeneca, and I'm
21 not -- for some reason it is not wanting to -- let's
22 see if I can get it to go down here. Well, it worked
23 this morning. There we go. All right.

24 And specifically here with regard to the

1 motion to disqualify, Special Master, what I tried to
2 do on this opening slide was really say for you really
3 why this should be granted.

4 And here we have Dr. Moeckel's own
5 statement, which is: "I am very interested in working
6 with Ice Miller and Katherine," that Katherine is me,
7 "on the interesting Astra[Z] legal cases."

8 And this, of course, statement was made by
9 Dr. Moeckel a very long time ago at the very inception
10 of this litigation when we were starting to look for
11 general causation-type experts in this litigation, not
12 knowing who our particular plaintiffs were, there was
13 no bellwethers yet, we did not know about Mr. Rieder
14 yet or Mr. Bales, but we were looking for general
15 kidney pathologists and in particular human
16 pathologists, and that's why I was reaching out to
17 Dr. Moeckel.

18 So it's important here, I think --

19 THE SPECIAL MASTER: Okay. Can I --

20 MS. ALTHOFF: Yes, go ahead.

21 THE SPECIAL MASTER: You may have this already,
22 but, I mean, we've looked at some of the case law,
23 and, I mean, I guess one of the key issues is I saw
24 in, I guess it was your papers, a consulting agreement

1 that he sent over to you.

2 MS. ALTHOFF: Yes.

3 THE SPECIAL MASTER: Was there ever a consulting
4 agreement -- I mean, I assume in cases like these you
5 have a standard consulting agreement that you sign
6 with all of your experts.

7 Was such a consulting agreement ever
8 signed by both parties or was -- did you ever sign the
9 agreement that he sent over?

10 MS. ALTHOFF: So, that's a good question, and
11 what happened here was Dr. Moeckel, and actually if we
12 go to this next slide we should be able to get it
13 here. So, in fact, that consulting agreement I think
14 is up on the screen right now, and --

15 THE SPECIAL MASTER: Yeah.

16 MS. ALTHOFF: Yeah. And so Dr. Moeckel sent
17 that to us and we responded with an e-mail that said,
18 Yes, we absolutely would like to engage you as a
19 consultant.

20 So did we sign the same document that he
21 sent us, no. Instead we responded with an e-mail and
22 it actually came from me. And then, thereafter, you
23 know, in reliance on that we went forward and met with
24 him.

1 THE SPECIAL MASTER: Do you have a copy of your
2 e-mail in the PowerPoint here?

3 MS. ALTHOFF: Not in the PowerPoint, but it
4 would be an exhibit to our motion, Special Master,
5 because it would be attached to my declaration.

6 THE SPECIAL MASTER: Okay. And -- okay. Keep
7 going.

8 MS. ALTHOFF: Yeah, sure.

9 So what happens next. Let's see here. I
10 don't know why this is not advancing correctly. All
11 right. There we go.

12 So I met with Dr. Moeckel. This was not
13 simply a case as some of the ones that have been cited
14 in some of the motion with regard to a single phone
15 call or where you blast a bunch of experts with
16 materials. This is not that case.

17 I actually flew to New Haven, Connecticut
18 and met with Dr. Moeckel. I spent two hours in his
19 office and I had a roadmap of things I wanted to talk
20 to him about and met with him for two hours. We
21 talked about everything from his background and
22 expertise as a human kidney pathologist, not working
23 for the plaintiffs in this case, but then also talked
24 with him about who we had retained, who we were

1 thinking about retaining. These were not only experts
2 that would ultimately be disclosed in this case but
3 also consulting experts.

4 We talked to him about the plaintiffs,
5 what we expected to be their mechanistic theories, we
6 talked to him about our mechanistic theories, and at
7 the end of that two-hour meeting, I asked him again if
8 he continued to want to meet with us and he said he
9 did.

10 And so I asked him what next steps would
11 be, and he said, Please send me some materials, which
12 I did. I sent him two binders of materials of
13 literature, medical literature and scientific
14 literature from this case, which ultimately I would
15 say showed up on his materials considered list.

16 THE SPECIAL MASTER: Okay. Can I ask you a
17 question?

18 MS. ALTHOFF: Absolutely.

19 THE SPECIAL MASTER: Was he paid? Have you
20 ever -- has AstraZeneca ever paid him for any of the
21 time he spent meeting or reviewing that literature?

22 MS. ALTHOFF: That's a good question. I mean, I
23 will tell you no, we did not send him payment. He
24 told us he would expect payment. He sent us his fee

1 schedule, which is in our papers, told us how much he
2 would charge us.

3 As is the case often with these experts,
4 until they get closer to writing their report they
5 don't send a bill and he didn't. He didn't send a
6 bill, he didn't tell me he didn't want to, he didn't
7 tell me that he didn't expect to be paid. He told me
8 he expected to be paid. He just never sent a bill.

9 THE SPECIAL MASTER: Did you ever ask him for a
10 bill?

11 MS. ALTHOFF: Not that I recall. No, not that I
12 recall.

13 THE SPECIAL MASTER: Okay. Okay. I mean, I'm
14 just trying to go through the criteria that I think a
15 lot of the case law has looked at.

16 Let me ask you, there is a long period,
17 and I can see it on your -- on your timeline from '17
18 to '20. That's a long time not to be in touch.

19 Was there any contact between anyone on
20 your side of the table with him in that roughly
21 three-year period checking in with him, that kind of
22 thing, any of that?

23 MS. ALTHOFF: No, and here is why. Dr. Moeckel
24 was not going to be someone who looked at particular

1 bellwether cases and looked at medical records or even
2 biopsies. We only have one case in the initial
3 bellwethers that has a biopsy. And so really we
4 wanted him to look at medical literature and give
5 general testimony, if called, from a pathologist's
6 perspective.

7 And so there really was no reason during
8 that period of time to check back in with him. We had
9 talked with him, we knew what his preliminary opinions
10 were, and the parties were busy in the bellwethers
11 taking depositions, looking at particular plaintiffs
12 and that really wasn't going to be his role.

13 And I think the questions that your
14 Honor -- that, Special Master, you are asking, really,
15 go to the Syngenta factors or, you know, whichever
16 type of case you want to look at, and whether we had
17 an objectively reasonable belief that we had retained
18 him.

19 And what I would say to that is, I think
20 the best piece of evidence there is not only the
21 consulting agreement that he signed, but also the fact
22 that I reached back out to him in November of 2020.
23 If I didn't think I had retained him, why would I
24 reach out to him again and ask him to, you know, start

1 meeting with me to put together an expert report.

2 THE SPECIAL MASTER: Um-hum, okay. I think we
3 found Exhibit D. And is this the e-mail that says:

4 "We thank you for your e-mail and fee
5 schedule. Please do not hesitate to contact me or
6 Katherine for any questions. We look forward to
7 working with you and will be in touch."

8 Is that what you're -- I just want to make
9 sure that's the document?

10 MS. ALTHOFF: I think so. There were several
11 e-mails around that time, but that was -- yeah, that
12 works.

13 THE SPECIAL MASTER: And when did you first --
14 maybe you have this in your timeline. When did you
15 first find out that he was working with plaintiffs'
16 counsel? I guess the expert report was submitted in
17 2021, right?

18 MS. ALTHOFF: Correct. Yeah, in April of 2021
19 we got his expert reports and I was as shocked as
20 anyone to see his report in their stack.

21 We had reached out to him, you know, in
22 November of 2020 and received back, I guess you would
23 say a cryptic e-mail, which is only really cryptic in
24 hindsight where he said he is not available for legal

1 consultation in the foreseeable future. But if we
2 take ourselves back to November of 2020, I will tell
3 you we were hearing that kind of thing from lots of
4 healthcare providers who were busy with COVID or their
5 organizations were limiting, you know, their contact
6 outside of the hospital because of COVID. And so when
7 I got it, I was disappointed because we were
8 interested in working with him as a human renal
9 pathologist, but I was -- it didn't tell me, Boy, I
10 think he has switched sides. It never, never crossed
11 my mind until I got the expert report.

12 THE SPECIAL MASTER: Okay. And then at that
13 point what did you do?

14 MS. ALTHOFF: Well, we noticed his deposition
15 along with, you know, all of the other experts, and I
16 took his deposition.

17 THE SPECIAL MASTER: Okay.

18 MS. ALTHOFF: And asked him about it.

19 THE SPECIAL MASTER: And did you reach out to
20 plaintiffs' counsel at that time to say, What's going
21 on here or anything like that?

22 MS. ALTHOFF: No. We took the deposition and,
23 frankly, I wanted to hear what the expert had to say
24 with regard to, you know, was he going to say I told

1 them all along or any such thing. It was a bit of an
2 awkward situation.

3 THE SPECIAL MASTER: Okay. I think we are down
4 to about 15 seconds according to my timekeeper here.

5 Is there anything else that you wanted to
6 add, take another minute or two?

7 MS. ALTHOFF: No. I think, you know, if you
8 look at the situation, I do think we have an
9 objectively reasonable belief that we had a
10 confidential consulting relationship based on the
11 facts here, and this is just not the type of behavior
12 that this -- that the court should countenance. We
13 think he should be excluded on this basis because this
14 is -- you know, it's not going to look good to the
15 jury when you see this and it looks poorly on the
16 judicial process.

17 THE SPECIAL MASTER: Okay. Thank you.

18 Who is going to respond for plaintiff
19 side?

20 MR. PENNOCK: Good morning, Special Master.
21 Paul Pennock for the plaintiff.

22 THE SPECIAL MASTER: Hi Paul, how are you doing.

23 Katherine, we still have your screen up, I
24 think.

1 Still up. There we go. Okay.

2 All right. Go ahead, Paul.

3 MR. PENNOCK: Thank you.

4 First, I probably -- I probably should say
5 and remind the Special Master, at least, as you saw in
6 the papers that we -- I did not know that this contact
7 had taken place, so -- in terms of her -- in terms of
8 her going to meet in Connecticut or anything of that
9 type. I never had, therefore, any conversations with
10 them about those discussions, neither did Bess
11 DeVaughn or Tracy Finken who had been working with
12 him. We knew that a reach out had occurred years
13 earlier and that's it and we didn't question him about
14 it.

15 THE SPECIAL MASTER: When did you start meeting
16 with him, Paul? When did your team start meeting with
17 him and did you ask him about, you know, whether he
18 had been contacted by any other party?

19 MR. PENNOCK: So it was in November of 2018 that
20 we first started having contact with him. I was not a
21 part of that at that time. And there was -- as I
22 understand it, he did say the other side reached out
23 to him a couple of years earlier and that's the extent
24 of it from what we knew.

1 You know, the further exposition of the
2 contact all happened at the deposition. You know, I
3 was surprised by it, on the one hand, but on the other
4 hand I'm glad I hadn't had any discussions with him
5 about it.

6 So he had really no recollection of it.
7 He didn't even recognize counsel that had been at this
8 meeting. I mean, counsel has testified that it was a
9 two-hour meeting. You know, I don't know that that's
10 borne out. But in any event, he had really no
11 recollection of it, any materials that were sent he
12 did not have, and as far as he was concerned it all
13 ended almost as fast as it began.

14 And to -- so that's sort of just the
15 context that we were not understanding what had
16 occurred with respect to that until the deposition
17 took place.

18 I -- you know, we were not told when the
19 report came out what had happened. I can't really lay
20 too much fault at that. You know, I'm just, like,
21 look, she wanted to come him and question him cold on
22 it, take me by surprise, well, that worked, she did.

23 And I don't lay a lot of blame there, but
24 I think the fundamental issue, at least the first

1 fundamental issue is whether or not there was this
2 contract. I suppose someone, particularly lawyers,
3 somehow could read into that responsive e-mail that
4 there was a meeting of the minds to form a consulting
5 relationship. I mean, I would suggest it's ambiguous
6 at best, sending that to a doctor saying, he says I'm
7 very interested in going forward and then -- and
8 working with Ms. Althoff and then they respond, We
9 look forward to working with you.

10 You know, I can tell you that certainly
11 from Dr. Moeckel's point of view, he did not have a
12 consulting relationship with them. They had left it
13 there. They never went forward and they did not sign
14 the document that he sent to them asking them to sign,
15 which to him, you know, you can see why to him that
16 would indicate they don't want me. I've sent them my
17 deal. They've not signed it. They just sent me an
18 e-mail and that was the end of it. So --

19 THE SPECIAL MASTER: Was that a stated -- his
20 stated position, that he did not think that he had
21 a -- he had been retained by him?

22 MR. PENNOCK: He absolutely did not think he had
23 in any way been retained by them. He didn't even
24 review the literature that was provided to him. And

1 the reason is because there was no follow-up on what
2 he asked them to do. I mean, he took the initiative
3 to say, Here is my deal, this is my consulting deal
4 with a signature line and it never came back.

5 So then in the intervening time period, of
6 course, we are doing the same kind of reach out and we
7 get in touch with him.

8 And I just want to note a couple of other
9 things, Ellen. Again, I'm sorry. I'm regurgiting
10 (sic) -- regurgiting the papers a little bit,
11 regurgitating it. They didn't have him sign a
12 protective order, they didn't have him sign any
13 confidentiality agreement, they didn't make any
14 payments, those things that you were asking about.

15 And so this, to me, is sort of the same
16 type of instance that I've had myself, where I've
17 reached out to somebody and had a conversation with
18 them and they said, Oh, thank you, and then they never
19 responded to my further inquiries and then they show
20 up on the defense side. That's happened more than
21 once, several times. And I don't think that it in any
22 way compromises or reflects badly on the integrity of
23 the trial process because these conversations took
24 place. And, you know, whether --

1 THE SPECIAL MASTER: I thought I read in
2 someone's papers that there was a notebook of studies
3 that was given to him with, I don't know what the
4 number is, like 30 studies, and that in his -- his
5 report that he did for plaintiffs he utilized, I don't
6 know, 28 of them. I might not have the exact numbers
7 right, but I thought I read that.

8 And doesn't that indicate that at least --
9 at the very least he looked at the materials that the
10 other side had culled for him?

11 MR. PENNOCK: No, and the reason is because
12 these are materials in common. These are publicly
13 available published literature which are -- you know,
14 there is a certain volume, as you know, of literature
15 that's always, you know, revolving around the core
16 issues in a case and these were some of those
17 articles, particularly as they concerned the issues on
18 both animal and human pathology. And so we had the
19 same selection that they had or some portion of the
20 same selection.

21 So that was overlap due to the fact that
22 these are, indeed, the articles that you would provide
23 to somebody to take an initial look, but I don't know,
24 other than what they've told me, what they sent to

1 him, because he did not have it.

2 And after the deposition, that was one of
3 my first questions: Do you have anything still? And
4 he did not.

5 So -- so that is -- you know, if we looked
6 at really any of the experts, I think Special Master,
7 you know, whether -- if you look at a nephrologist, a
8 general causation nephrologist, if they had one, you
9 would look and you would see they have all of the same
10 epidemiological articles. It is in that vein and I
11 would suggest that it's -- to say it's common would be
12 an understatement. So he did not utilize what they
13 sent him in any way.

14 So I don't think that the integrity of the
15 trial process is in any way reflected upon -- or badly
16 reflected upon because of this. It was really, I
17 think, innocent on both our part for sure and -- and I
18 would suggest equally for sure on Dr. Moeckel's part.
19 He is a doctor. He didn't think he had any agreement,
20 we hadn't heard from them in two years and we reached
21 out to them and he said, Okay, I'll take a look at
22 what you want me to look at, and it proceeded from
23 there.

24 You know, if -- I think that the court has

1 seen -- you've seen, Special Master, there needs to be
2 specific and unambiguous confidential disclosures, I
3 don't think there is any record that that took place.

4 And so if you take this record on its
5 whole, I would suggest, I really don't think they even
6 get close to being able to disqualify him for these
7 communications that happened. He didn't think he had
8 an agreement, he didn't look at anything they had, he
9 doesn't even remember the meeting, he didn't even
10 remember Ms. Althoff who was sitting there across the
11 table from him, and furthermore, we had a span of two
12 years until he consulted with us and another two years
13 before they reached out to him again.

14 You know, to suggest that, Well, we just
15 really didn't need to talk to a pathologist until four
16 years later, okay, I would say that if you have a real
17 relationship with an expert of any caliber, let alone
18 a world class expert like this and you really wanted
19 to work with him and you thought you had a
20 relationship with him, you would have had some contact
21 in between and had provided some payment to him for
22 whatever work you thought he had done, although they
23 never checked to see if he did the work that they
24 thought he was doing, which was reviewing these

1 literature articles and, in fact, he had not been.

2 So I think that if you look at all of the
3 case law, it just really doesn't cross the bar in
4 terms of disqualifying this expert that has done a
5 massive amount of work on behalf of plaintiffs in this
6 case. Thank you.

7 THE SPECIAL MASTER: Thanks, Paul.

8 Katherine, do you want to respond?

9 You are muted, Katherine.

10 Can you unmute her?

11 Can you unmute yourself, Katherine?

12 MS. ALTHOFF: Yep, there we go.

13 THE SPECIAL MASTER: Yep, there we go.

14 MS. ALTHOFF: Yeah, I don't want to regurgitate
15 what we've already talked about. Judge, just a couple
16 quick points.

17 I mean, Paul's big point was really the
18 doctor sent her a consulting agreement and she didn't
19 sign it and so he didn't believe that there was any
20 relationship. Unfortunately that sort of belies the
21 timeline.

22 The doctor sent the consulting agreement
23 in 2016 and then I met with him for two hours after
24 that, two months after that. So, you know, I think

1 that the fact, you know, whether we signed the
2 agreement or whether we sent him an e-mail saying,
3 Yes, we want to work with you and then I met with him
4 for two hours, I think, is -- it certainly does not
5 make -- does not break the case for sure.

6 Paul also raises the issue that there was
7 no protective order sent to Dr. Moeckel. Well, of
8 course there was no protective order yet in the case
9 at that point in time. And we didn't send Dr. Moeckel
10 any confidential records designated in the case, in
11 other words, we didn't send him any of the plaintiffs'
12 medical records, so there was no reason for him to
13 sign a protective order. And once again, that is not
14 dispositive of the issue.

15 And, you know, finally, there were a
16 number of assertions made about whether, you know,
17 what Dr. Moeckel told them and what Dr. Moeckel's
18 impression was during the deposition. None of this is
19 evidence and it is not in the record. There is
20 nothing in the record with regard to whether
21 Dr. Moeckel told the plaintiffs that he had been
22 previously retained or didn't or what his contacts
23 were. In fact, I heard for the first time today that
24 he told Paul that he had -- had a reach out but didn't

1 disclose the two-hour meeting. That's all news to me
2 and it's certainly not in the record. And this, you
3 know, he didn't know who I was. I think he did know
4 who I was at the deposition, but regardless, that's
5 not in the record that he didn't.

6 So, again, I think these --

7 THE SPECIAL MASTER: Can I ask one more question
8 of you?

9 MS. ALTHOFF: Sure.

10 THE SPECIAL MASTER: Do you -- I mean, do you
11 have a standard consulting agreement that you normally
12 give to your experts, I mean, because the one that he
13 has that's there doesn't look -- I've done a lot of
14 consulting agreements over the years -- doesn't look
15 like any that I would normally have done. I mean, do
16 you -- is that something you normally would do if you
17 were going to use the expert?

18 MS. ALTHOFF: Not necessarily. At the beginning
19 stages of an expert consultation, I typically meet
20 with them, I often retain them via e-mail and then at
21 some point in time sometimes I will provide a more
22 complex one, but not necessarily. And certainly with
23 regard to the experts in this case, in this MDL, not
24 all of them have, you know, big, long complex

1 consulting agreement. It's -- I just -- I don't
2 necessarily do it. I don't think it's necessary. And
3 so, no, I wouldn't typically sign his agreement, which
4 is why, you know, we retained him via e-mail.

5 THE SPECIAL MASTER: Okay. Thanks very much to
6 both sides.

7 And I guess now do we want to move on to a
8 discussion of your motion to exclude testimony?

9 MS. ALTHOFF: Sure.

10 THE SPECIAL MASTER: Okay. Are you going to do
11 that too, you and James?

12 MS. ALTHOFF: Yes. Let me just advance through
13 here.

14 THE SPECIAL MASTER: By the way, while you are
15 doing that, I just wanted to ask that to the extent
16 that anybody is using slides, using PowerPoint slides
17 in -- in connection with their arguments, can you,
18 when the arguments are done, send those to me, please,
19 by e-mail, I'd appreciate it.

20 MS. ALTHOFF: Sure.

21 MR. PENNOCK: If we could get a copy as well.

22 THE SPECIAL MASTER: And send that to opposing
23 counsel as well.

24 Yeah, I was just going to say that, and to

1 opposing counsel as well.

2 MR. PENNOCK: And the court reporter.

3 THE SPECIAL MASTER: And the court reporter,
4 obviously, as well.

5 Okay. Go ahead, Katherine.

6 MS. ALTHOFF: Great.

7 Special Master, again, Katherine Althoff
8 on behalf of AstraZeneca, and again, I believe James
9 Mizgala is going to be maybe adding some comment on
10 behalf of Takeda.

11 So pivoting from the motion to disqualify
12 to the motion to exclude, and, again, on this first
13 slide what I tried to do was sort of sum up in a
14 sentence why our motion should be granted and why
15 Dr. Moeckel should be excluded.

16 And here, specifically, Dr. Moeckel
17 testified that his job in this case for the PSC was to
18 review pathological findings, if any, in the kidneys
19 of test animals. So, in other words, he was retained
20 to be an animal pathologist. And when asked at his
21 deposition about that, he told us: "I am not an
22 animal pathologist."

23 It's really pretty simple. Is this a
24 qualifications case? Sort of. But what you really

1 find out is that because he is not an animal
2 pathologist and because this isn't what he does, he
3 has done some testing, but this isn't what he does in
4 his ordinary life, he did not have a reliable
5 methodology that he used, and ultimately his
6 qualifications don't fit. And then, lastly, of
7 course, we can get to the fact that if, in fact, he
8 can render testimony about what he saw in the slides
9 of animal kidneys, he has testified he can't link that
10 up to humans. And it's just simply his observations
11 of what he saw in the animals.

12 And, unfortunately, plaintiffs have nobody
13 else. This is a little bit like Wells, but here --

14 THE SPECIAL MASTER: Can I ask a question?

15 MS. ALTHOFF: Uh-huh.

16 THE SPECIAL MASTER: Can I ask a question. I
17 mean, you are saying he is a human pathologist, not an
18 animal pathologist, but we -- and God knows I'm a long
19 way from being a pathologist, but don't we often in
20 these kinds of situations regarding drugs, we look at
21 animal pathology data because it provides some
22 information that might or might not be relevant to --
23 to humans.

24 So, I mean, I just -- I wonder, you know,

1 and maybe I'm wrong about this, but that a pathologist
2 who can look at human path slides probably could look
3 at animal path slides as well, especially in this
4 context where we do use animal data all of the time in
5 evaluating drugs?

6 MS. ALTHOFF: Yeah, that's -- that's a very good
7 question, Special Master, and here is why that's not
8 the case here: Because the key issue here is a
9 condition called "chronic progressive nephropathy."
10 Chronic progressive nephropathy, if you look in the
11 textbooks, is a rat-specific or for sure a
12 rodent-specific disease.

13 So if you only look at humans and if you
14 only look at human pathology, you've never seen
15 chronic progressive nephropathy. And, in fact,
16 Dr. Moeckel has never seen chronic progressive
17 nephropathy. And as a human pathologist that is not
18 surprising.

19 However, here the key testimony and the
20 critical issue is AstraZeneca and Takeda, in their
21 animal studies, reported to the FDA that what was seen
22 in terms of findings on the kidney pathology was
23 chronic progressive nephropathy.

24 Now, Dr. Moeckel, who has never seen it

1 and who is not an animal pathologist, wants to come in
2 and testify, Oh, I looked at those slides and I did
3 not see chronic progressive nephropathy, the
4 rat-specific condition. That requires an animal
5 pathologist.

6 THE SPECIAL MASTER: Let me ask you another
7 question. I mean, you were -- you either retained him
8 or were considering retaining him, as we've discussed
9 previously.

10 What -- why if he is -- why if he is
11 someone who is not qualified to give an opinion in
12 this case?

13 MS. ALTHOFF: Oh, I'm not saying he is not
14 qualified to give an opinion in this case. We wanted
15 to retain him and did retain him as a human
16 pathologist. So to testify as to what, for instance,
17 acute interstitial nephritis looks like in a human on
18 biopsy. And as a human animal -- or excuse me -- as a
19 human kidney pathologist, you know, what drug-induced
20 interstitial nephritis looks like and what causes it.

21 That's not what he is doing here. Here he
22 is looking at rats and dogs and he says he has never
23 looked at a dog before, and telling you what he sees
24 on the slides and whether it is consistent with a

1 rat-specific condition or not. And his testimony is
2 it's something else.

3 THE SPECIAL MASTER: Okay. Thank you.

4 Anybody -- is James going to address this
5 or...?

6 MS. ALTHOFF: Yeah, I'm happy to have James
7 comment as well.

8 THE SPECIAL MASTER: I didn't know. I didn't
9 know. I'm just asking. If not, we can go to the
10 plaintiff side.

11 MR. MIZGALA: Just quickly, Special Master, this
12 is really very similar to the Wells situation. I
13 mean, again, you have -- you have this expert who says
14 I've done -- I've looked at all of these slides and
15 made mental notes about them and -- and then -- I
16 can't -- but I can't tell you what that means with
17 respect to humans.

18 I mean, if you look back, yes, there are
19 cases where, you know, animal testimony -- or
20 testimony regarding animal studies has been allowed in
21 cases, but that's where somebody says, Oh, and what
22 that means with respect to the humans having a
23 condition is it's more likely than not or something.
24 There is some sort of expert opinion tethered to that

1 analysis. We don't have that here.

2 The plaintiffs have conceded that he is
3 not opining that the use of PPIs causes CKD in humans.
4 He is not opining that the animal findings prove that
5 PPIs cause kidney injury, and he is not opining on
6 mechanisms of PPI toxicity.

7 Again, so what's a jury to do? They
8 want -- they want -- and none of their expert -- other
9 experts say, Oh, I looked at what Dr. Moeckel did and
10 that's -- and that -- and what it means is this in my
11 analysis of causation. We don't have that anywhere.

12 So, again, we are left with the jury
13 speculating as to what these animal findings mean.

14 Thank you.

15 THE SPECIAL MASTER: Thanks.

16 Okay. Who is talking for plaintiff side?
17 Paul, is that you again?

18 Okay. It's Paul.

19 MR. PENNOCK: Thank you.

20 THE SPECIAL MASTER: Can you unmute, Paul. You
21 are muted.

22 MR. PENNOCK: Oh, I'm sorry.

23 THE SPECIAL MASTER: There you go.

24 MR. PENNOCK: Oh, okay.

1 THE SPECIAL MASTER: No problem.

2 MR. PENNOCK: I guess I'll just first quickly
3 address what I -- the qualifications assertions that
4 defendants are making.

5 It is in the record, Special Master, and
6 it is certainly in our brief, Dr. Moeckel is
7 extensively experienced in animal pathology and
8 conducting research regarding animal pathology and
9 including rats. There has made -- much has been made,
10 as it often is, sound bites here or there, he had not
11 seen CPN in rats, and that's a very relevant lack of
12 finding by him because he has always been -- or almost
13 always been dealing with younger rats. And the
14 position and one of the bases of his opinions, that
15 these lesions he is seeing in the Takeda and
16 AstraZeneca younger rats are not CPN is because you
17 don't see it in younger rats. And so if you are
18 looking at these lesions, and he had other
19 pathological features, histopathological features that
20 he didn't see in these lesions, then that's -- that's
21 the point. You see these lesions in older rats.

22 And so the fact that he hasn't seen older
23 rats very often and, therefore, he hasn't seen a lot
24 of CPN. But that's a little bit of a side note.

1 The qualifications, I think, you know,
2 best might be summed up at Page 18 of the brief. I
3 know you probably don't want me to regurgitate this,
4 but I think it bears pointing out. You've had -- I
5 don't know how anyone could have possibly read all of
6 this briefing.

7 THE SPECIAL MASTER: It is a lot of paper, for
8 sure.

9 MR. PENNOCK: It is the most paper I've ever
10 seen, I think.

11 You know, the Yale University has named a
12 research laboratory after Dr. Moeckel, the Moeckel
13 Lab, where: Students doing post docs are exposed to a
14 wide variety of physiologic, biochemicals, cell
15 biological, molecular and cell biology experimental
16 protocols, as well as different transgenic and
17 knockout technologies to generate animal models for
18 tubular injury regeneration, end quote. And this is
19 the mission statement of the lab created at Yale and
20 named after Dr. Moeckel.

21 Moreover, this is also a quote: "The
22 student will be exposed to human kidney biopsy
23 material in an attempt to correlate findings in the
24 animal and cell culture models with actual

1 pathology" -- "or pathological mechanisms in patient
2 kidney biopsy tissue."

3 So, you know, the rest of the record is
4 replete with his qualifications that I think are
5 really about as strong as you can get, which is borne
6 out by his CV and all of the work that he has done
7 which has included a great deal of animal work.

8 In terms of the next issue that has been
9 raised, which is -- I think by James -- kind of hit
10 the point most pointedly, Dr. Moeckel is coming in to
11 testify, as histopathologists do, that -- let me
12 withdraw that, Special Master. Let me approach it
13 from the other direction.

14 What if the only evidence in this case
15 were all of the animal studies from two different
16 defendants were looked at by pathologists and there
17 were no findings of any lesions that might be
18 correlated with a human lesion, that the only findings
19 in all of the pathology were chronic progressive
20 nephropathy in the rats and that only has to do with
21 rats, what if that were the only testimony in the
22 case? That would be a big issue for any case where
23 you are claiming that a compound has caused a toxic
24 effect in a human in the kidneys.

1 So what do we have? We have an expert who
2 is coming in to say, No, hold the phone. That's not
3 correct. When I look at all of this pathology, I do,
4 in fact, see lesions that -- in these rats that are
5 not chronic progressive nephropathy that appear to be
6 a tubular interstitial nature -- type of
7 histopathology, lesion, and in addition I've seen
8 evidence in these slides that that injury has, in
9 fact, caused chronic kidney disease in the rats that's
10 unrelated to chronic progressive nephropathy.

11 I mean, to say that that has no --

12 THE SPECIAL MASTER: How do you -- how do you
13 link it, though? I mean, I think the question that
14 Takeda's counsel, James, was raising is who is going
15 to link that testimony on the part of, you know,
16 Dr. Moeckel to an effect in humans? I think that's
17 the point -- at least a point that James was making
18 that, you know, it is all well and good to talk about
19 what happened to the rats, but how do you link that to
20 impact on humans?

21 MR. PENNOCK: Very good. So to answer that
22 specific relevance question, but I think there is
23 another relevance point, both of our experts, both
24 Dr. Charytan and Dr. Fine, have, of course, applied a

1 Bradford Hill analysis to causation, general causation
2 of these -- of this disease entity with these
3 compounds. And both of them in walking through the
4 well accepted Bradford Hill approach and criteria have
5 identified that in addition to all of the clinical
6 evidence that we see, in addition to the evidence that
7 we see in clinical trials, in addition to the evidence
8 that we see in the many case reports, in the case
9 series and, of course, all of the epidemiological
10 studies that have come out, in addition to all of
11 that, there is evidence of -- of an effect in animals
12 and they will say and have said and it is something
13 that is routinely testified to that when you are
14 assessing human causation, you do look to the animal
15 to see what, if anything, was occurring in the animal
16 regarding the organ of interest and the disease of
17 interest in the animal.

18 And it's -- and in some ways it's -- it is
19 a matter of looking at it to see if there is nothing,
20 because if there is nothing, as I started out, if
21 there is nothing in the animal evidence at all and
22 it's a competent body of animal evidence, that
23 certainly raises a question in a Bradford Hill
24 analysis of, if we are having this effect in humans,

1 why is there no biologically plausible preclinical
2 evidence that we are seeing in the animals or in
3 vitro, why does that not exist.

4 And it confounds, without the animal
5 evidence or the -- and/or the in vitro evidence, it
6 somewhat confound the Bradford Hill method or, I'm
7 sorry, analysis of all of the evidence that exists.
8 It certainly raises a question if there is no animal
9 evidence that needs to be explained by the doc -- the
10 medical doctors who are giving -- who are giving
11 causation opinions.

12 So -- so the importance of the animal
13 evidence and the fact that there are some indicia of
14 renal toxicity in the animal reports that these other
15 experts read does -- does play a role in the
16 evaluation of causation. And I say these other
17 experts, I -- it was either Fine or Charytan that went
18 through this -- went through this evidence or both,
19 and probably Stephanie can answer that, but it's part
20 of the Bradford Hill. So that's how it is connected
21 up as to the relevance for human causation. It is in
22 the general causation piece.

23 In addition -- and I hope that's answered,
24 that question or at least --

1 THE SPECIAL MASTER: It answers it, yes.

2 MR. PENNOCK: -- or at least appears to, okay.

3 So the second, I think, relevance
4 consideration for this evidence is, of course, in the
5 conduct of the company, not just in what should have
6 occurred when you have -- if you have properly
7 evaluated your animal evidence, what should have been
8 occurred -- what should have flowed from your
9 identification of possible renal toxicity of a chronic
10 nature in your animal models, other than something
11 specific to the animal model.

12 Well, if that comes out, if you find that,
13 if you identify it, if you properly evaluate it and
14 assess it, then you should, and I think we see this
15 throughout Dr. Ross's description of what happened
16 here, that should give you some kind of signpost on
17 the road, not that you don't put the drug on the
18 market, not -- not that you're -- you're going to put
19 in a warning of renal toxicity when you launch of the
20 drug, but it is a signpost that, you know, there might
21 be a bridge out ahead and -- and so now you are alert,
22 which is why we do animal studies, first we do them to
23 see if something ridiculous happens, like they all get
24 cancer and die, but really, we are looking to create

1 signposts of what might happen in the clinical
2 setting, what might happen postmarketing. And so if
3 we had properly done our work, we say, Oh, there might
4 be some renal toxicity in there. Oh, that might be
5 relevant to humans.

6 Well, guess what, you launch the drug and
7 suddenly you are getting case report after case report
8 published in reputable journals saying, Hey, I just
9 had a -- I had a patient, two patients, three
10 patients, seven patients, which is what happened, as I
11 think the Special Master knows, throughout the '90s,
12 of renal effects and ultimately chronic toxicity.
13 Well, that's why those signposts exist in the animal
14 studies and that is the other relevant aspect of
15 Dr. Moeckel's testimony in this case and in any case.

16 THE SPECIAL MASTER: Okay. Thank you, Paul. I
17 think our time is up.

18 MR. PENNOCK: Thank you.

19 THE SPECIAL MASTER: I think you might have a
20 few minutes for rebuttal if Katherine or James want to
21 say something.

22 Katherine does, okay.

23 MS. ALTHOFF: Yeah, just a couple of quick
24 points.

1 Paul identifies on Page 18 the extensive
2 animal qualifications of Dr. Moeckel. What's very
3 important here is Dr. Moeckel, to the extent he works
4 with animals, he works with models of injury of
5 animals. So where they try to take an animal and
6 simulate what they see in humans. So they'll clamp
7 off a kidney and simulate acute kidney injury. That's
8 what he does. That's why he is not seeing chronic
9 progressive nephropathy.

10 What he has a very, very little experience
11 at all in is toxicity studies where you take an
12 animal, you give them a drug and you see what happens.
13 He does models of kidney injury. It is a totally
14 different deal than -- than he does within toxicity
15 studies.

16 Next, with regard to the link up, if there
17 is a link up, it's not in the record. I saw nothing
18 in the plaintiffs' briefs that say Charytan relies on
19 Moeckel, there is nothing that says that Dr. Fine
20 relies on Moeckel. I'm not aware of that.

21 So, you know, do they talk about animal
22 evidence? I'm sure they do, as does their other
23 expert Dr. Smith who reviewed AstraZeneca's own
24 preclinical filings with the FDA and reached certain

1 opinions about that. And there is no Daubert motion
2 pending on Dr. Smith.

3 But what we are talking about here is
4 Dr. Moeckel reviewing slides that he is not qualified
5 to do and didn't use the correct methodology to do and
6 then nobody relying on him to connect that up to what
7 does that mean for humans.

8 THE SPECIAL MASTER: Thank you.

9 James, did you want to add anything?

10 MR. MIZGALA: No. Well, just, you know,
11 Ms. O'Connor earlier pointed out when talking about
12 Wells, you have to have somebody connecting the dots
13 and that is just not happening here. No one is saying
14 I -- I took Dr. Moeckel's analysis and that means that
15 I can use that in my Bradford Hill analysis. It is
16 just not happening.

17 THE SPECIAL MASTER: Okay. Thank you. All
18 right.

19 I guess where we are now is Ross, is that
20 right? And who is going to speak to that one?

21 Okay. Mr. Horowitz.

22 MR. HOROWITZ: Yes.

23 MR. RUTTINGER: Also Mike Ruttinger for Takeda.

24 THE SPECIAL MASTER: How are you?

1 MR. HOROWITZ: Good. How are you?

2 THE SPECIAL MASTER: Good.

3 MR. HOROWITZ: So, Special Master, again, Jeff
4 Horowitz, Jeffrey Horowitz on behalf of AstraZeneca
5 and I'm going to argue the motion to exclude
6 plaintiffs' regulatory expert Dr. Ross, along with
7 Mike Ruttinger, who is going to speak on behalf of
8 Takeda, as he said.

9 I know that you are more than well versed
10 in the world of Daubert and FDA expert or purported
11 FDA expert testimony, so I think -- you know, I think
12 we can --

13 THE SPECIAL MASTER: I have done a little of
14 that work over the years, yes.

15 MR. HOROWITZ: Yes, I am well aware.

16 THE SPECIAL MASTER: And, I mean, I want to
17 start out by saying, you know, you really -- you
18 aren't really disagreeing that Ross is qualified as an
19 FDA expert, are you?

20 MR. HOROWITZ: Not as an FDA expert, of course
21 not, no.

22 THE SPECIAL MASTER: All right.

23 MR. HOROWITZ: This is a unique -- you know, it
24 seems that in today's day and age, you know, everybody

1 wants to talk about Parisian and the Trayslol opinion
2 and courts tend to try to find ways not to go full,
3 you know, full Parisian Trayslol.

4 I think this is a unique situation, a
5 unique case, and that may just be merited here for two
6 reasons. No. 1, you have a stunningly fulsome
7 regulatory record on the very issues that are at the
8 core of these cases. It's -- it's going to be laid
9 out, I think, in some detail more for you tomorrow
10 when William and Mike argue preemption, but you can't
11 get away from it.

12 And then the second piece is the absence
13 of fit, I think, is really stunning here as well,
14 which is the real opinions that Ross purports to offer
15 don't really fit the facts of these cases where the
16 claim is really for CKD and yet he really doesn't
17 opine, certainly not clearly, that that's what was
18 missing from the label. He talks about ATIN and CTIN
19 in this mythical reference to sequela that really has
20 no support in what he cites.

21 THE SPECIAL MASTER: Yeah, I think -- can I just
22 say I think there is something, and maybe when it is
23 his turn to speak we can address it, of a disconnect
24 here about exactly what they are claiming should have

1 been disclosed, warned of, et cetera.

2 I mean, it seems to me that ATIN and CTIN
3 are distinct from CKD. But you don't dispute, do you,
4 that they can lead to -- to CKD and that's why they
5 are relevant?

6 MR. HOROWITZ: I don't know that -- I don't
7 think it's as clean as you are suggesting, which is
8 what plaintiffs and Ross would like that to be the
9 case. And the best, I think, answer to that is in the
10 FDA's review analysis, particularly in 2019 and 2020,
11 or really even post 2016, once you get the -- the
12 Lazarus literature report, because the CKD is unique
13 and it is a defined renal injury that is separate and
14 apart from CTIN and ATIN.

15 And I think this really underscores the
16 problem with Ross's report, which is he is not the
17 person to make that connection and it is certainly the
18 methodology that he applies to try and make that
19 connection through this prism of, Well, I'm the
20 regulatory guy, so I can -- I can -- I can make that
21 connection. It doesn't work. You can't do it.

22 Let me -- let me -- if it's okay, Special
23 Master, I want to start with some context on Ross,
24 which is --

1 THE SPECIAL MASTER: Okay.

2 MR. HOROWITZ: -- you may recall he came in to
3 replace, you know, Dr. Kessler when Dr. Kessler went
4 back to the company, we can talk about that
5 separately, and he comes in on March 15th. Two months
6 later he serves a report that is 274 pages long. And
7 that is sort of one of the mantras, if you look at the
8 plaintiffs' opposition brief, Well, you know, I wrote
9 this 274-page report in two months. And when I asked
10 him, this is Page 117, Line 24 of his deposition to
11 Page 118, Line 5:

12 "Before you were retained by the lawyers
13 in March of this year to provide a report on May 15th
14 of this year, I think I told -- I think you told me
15 you didn't know anything about PPIs and CKD, right,
16 that's what you said?

17 "Answer: I think that's a fair
18 statement."

19 So he comes in, and in two months purports
20 to do a comprehensive fulsome regulatory review of
21 this record that has been subject to scrutiny by FDA
22 for the number of years it has been, it's -- the
23 contrast between reality and the role that Dr. Ross is
24 purporting to play is stunning.

1 And then the second piece is, you know, it
2 has become popular for the FDA experts to sprinkle
3 this sort of like, I call it the ipse dixit fairy dust
4 of, Well, I was an officer at FDA and so I just
5 applied the same methodology, you know, that I would
6 have had I been at FDA.

7 Well, of course they are going to say
8 that, but the real question is: Did they do it, did
9 they really dig in and review the materials and
10 actually apply the regulations and explain how they
11 are applying the regulations.

12 And it is eminently clear from Dr. Ross's
13 report, and then, you know, his deposition, frankly,
14 he almost makes Parisian look responsive. You know,
15 you've got to alligator wrestle him on every single
16 question. The reality is he cites the kinds of
17 materials, I'm not going to dispute that, that you
18 would expect an FDA officer, you know, medical officer
19 or medical reviewer to look at. Of course he does.
20 But there is no explanation as to how he truly applies
21 the standards. It is really just a recitation of
22 studies, adverse event reports, case reports and then
23 there is an immediate leaping to these conclusions,
24 you know, arguing the plaintiffs' case, the oath

1 swearer testimony, if you will, that doctor -- and
2 that the Judge Kapel (phonetic) pointed out way back
3 when. I mean, that's really what this report is.

4 And then, if you actually contrast what he
5 says and in, you know, the opinions that he offers
6 with the actual record, the documents themselves that
7 the jury can look at, the jury can review, you know,
8 he offers this idea about severe sequela that should
9 have been in the label even pre 1996 even in the
10 context of acute IN.

11 Well, the 2014 label change, the FDA
12 specifically, in response to the citizen petition
13 specifically chooses not to include that language. He
14 may disagree with it, but he doesn't even address it.

15 THE SPECIAL MASTER: I have a question on that.

16 Isn't the point, I think, that plaintiffs
17 are making, and I think you -- again, I think you guys
18 may be talking past each other to some extent, is the
19 plaintiffs' point I think is that a warning about ATIN
20 and CTIN would highlight that there is a risk to --
21 there is kidney toxicity, there is a risk to the
22 kidneys and, I mean, he does, in quite some detail in
23 his report, and, you know, I don't know how it was put
24 together or whatever, but he goes through and refers

1 to all of these earlier reports, challenge,
2 rechallenge stuff, and concludes from that that an
3 earlier warning was required.

4 I mean, I do think, you know, whether you
5 agree that he -- he dug into the data the way you
6 would like him to or did the review you would like him
7 to, I do think that's the point he is making, is it
8 not?

9 MR. HOROWITZ: I agree that's the point he is
10 trying to make, but the manner -- it is the
11 methodology, the manner in which he gets there is
12 deficient because he doesn't explain, he doesn't say
13 how he leaps from, you know, a discussion of a single
14 dechallenge -- rechallenge, dechallenge case to
15 reasonable evidence of a causal association.

16 And in particular, again, he mixes -- I
17 think one of the great examples I wanted to show you,
18 and it is not really set forth directly in the papers,
19 if you look at Paragraph 598 of his report, which is
20 something that the plaintiffs cite in their opposition
21 on Page 9 and emphasizing exactly what you just
22 referred to, if you look at what he actually says, he
23 says that:

24 "A warning of a risk of acute interstitial

1 nephritis with the potential to cause permanent renal
2 impairment, including chronic kidney disease, should
3 have been submitted before 1996."

4 Respectfully, that makes no sense. And,
5 again, you know, CKD is separate and apart, it is
6 distinct from ATIN and CTIN and it's just a perfect
7 example of what's happening here. It is just leaping
8 to these conclusions, mouthing the regulations. I
9 mean, any -- any -- any regulatory expert, even
10 Parisian now knows that you have to mouth the words
11 "reasonable evidence of a causal association" and, you
12 know, to cite to 201.57, but you've got to lay it out,
13 you've got to explain how you get there.

14 And the problem here is he is doing it in
15 the face of an FDA record like the 2014 label change
16 where exactly what Ross is saying was not included,
17 the sequela, and he doesn't even address it.

18 And then you have the 2017 TSI conclusion.
19 I mean, it is publicly available. And I asked him
20 about that also at his deposition. He didn't even
21 know about it, and he doesn't address it in his report
22 where the FDA's TSI review concludes specifically no
23 action is necessary with respect to CKD.

24 And then you get to 2019 and '20, and

1 although he cites to some of the documents and
2 purports to put forth a regulatory record, it is
3 cherry-picking and he doesn't address head on the
4 documents that say 180 degrees the opposite of what he
5 says.

6 That's not a methodology. He just ignores
7 the fact that there are statements by FDA, by the
8 epidemiology group that's doing the review, by the TSI
9 group that's doing the review, that specifically says,
10 We have a reason and a rationale for not offering a
11 CK -- or for not including a CKD warning. He just
12 ignores it.

13 That is ipse dixit on steroids, that is
14 Joiner, it's a gap, it is an analytical gap.

15 THE SPECIAL MASTER: Okay. I think -- I think
16 we've got -- we called time.

17 Who from plaintiff side is going to
18 address?

19 It looks like Paul again.

20 MR. PENNOCK: I will, yes.

21 MR. HOROWITZ: I'm sorry. Did I take Mike's
22 time as well?

23 THE SPECIAL MASTER: Oh, I'm sorry. I
24 apologize. I forgot. Sorry, Mike.

1 MR. RUTTINGER: The Takeda motion is a separate
2 motion, Special Master, so we can do it in whatever
3 order you want.

4 THE SPECIAL MASTER: No, no, no, go ahead. I
5 think it's better -- Paul, unless you disagree, I
6 think it is better to let defendants have their say
7 and I think it will abbreviate things if you can
8 respond to both together.

9 Is that okay?

10 MR. PENNOCK: Yes, I absolutely agree to that.

11 THE SPECIAL MASTER: Okay.

12 Go ahead, Mike. I'm sorry.

13 MR. RUTTINGER: Good morning, Special Master,
14 Mike Ruttinger for Takeda. I'll try do keep it fairly
15 brief because Takeda's motion is confined to the Bales
16 case, but there are a couple of unique issues relevant
17 to the Bales case that are kind of implicated by some
18 of your questions that I think we can had address.

19 So I want to begin with Takeda's fit
20 argument as to Dr. Ross's testimony in the Bales case.

21 Special Master, you raised this question
22 that a lot of the issues implicated by plaintiffs'
23 opposition to the Daubert question is, you know, this
24 kind of blurring of lines between acute TIN, chronic

1 TIN and chronic kidney disease. And I'm going to
2 share a slide here that reflects Dr. Ross's testimony
3 on this point that I think helps to address this.

4 So chronic kidney disease is a distinct
5 kidney injury characterized by an irreversible loss of
6 kidney function over 90 days. In this it is distinct
7 from the other kidney injuries discussed by the
8 plaintiffs in Dr. Ross such as acute kidney injury,
9 TIN, acute TIN, chronic TIN, and this is a fact that
10 Dr. Ross himself acknowledged during his deposition
11 testimony.

12 Now, I want to emphasize this distinction
13 because Dr. Ross also said the first published report
14 in evidence associating a distinct condition of
15 chronic kidney disease with PPIs did not come out
16 until 2016.

17 Well, with respect to the Bales case, the
18 last instance of Plaintiff Freddy Bales's use of
19 Takeda's product was 2007. So to the extent that
20 Dr. Ross's opinions about CKD are premised on evidence
21 that doesn't come out until nine years after
22 Plaintiff Bales used -- last used Takeda's Prevacid
23 drug, it doesn't strike us that there is any actual
24 fit between his CKD-specific opinions and the facts of

1 the Bales case.

2 Now, with respect to the evidence that has
3 come out regarding Bales's own conditions, it is clear
4 that --

5 THE SPECIAL MASTER: Can I interrupt you there
6 for a minute, Mike?

7 MR. RUTTINGER: Of course.

8 THE SPECIAL MASTER: Can I interrupt you there
9 for a minute?

10 I have seen that quote used many times in
11 the papers, and, I mean, no doubt he says -- he says
12 what he says. He says that the Lazarus, et al.
13 studies were the first group of studies to report on
14 the relationship between PPI and CKD, but if you look
15 at his report, as the point I was making earlier, you
16 go back to, I don't know, Paragraph 445, 443,
17 somewhere around there, and he really does talk about
18 earlier reports. And I think taking that one
19 statement about 2016 is a little bit out of context.

20 Now, that may be the CKD versus ATIN and
21 CTIN distinction that we've talked about, but I do
22 think there is -- there -- and you can disagree with
23 it, but I think there are statements in his report
24 that suggest that risks were known earlier.

1 MR. RUTTINGER: So this gets to the second
2 question I kind of wanted to address that you
3 raised -- or Mr. Horowitz, I'm sorry, raised, which is
4 the distinction between chronic kidney disease
5 specifically and this notion that plaintiff advocates
6 of a generalized notion of renal toxicity.

7 So if you look at the information
8 predating 2016 and Lazarus that Dr. Ross looks at, he
9 talks a lot about TIN and potential sequelae of TIN.
10 But, again, those are actually clinically distinct
11 conditions, whereas in most instances the evidence
12 shows and the reports show that AIN, ATIN, CTIN, for
13 example, are, you know, inflammation of the
14 interstitia that actually is often reversible.

15 Chronic kidney disease as a distinct
16 medical condition is actually considered to be
17 irreversible. And so chronic kidney disease is also
18 the only condition, not only alleged by Plaintiff
19 Bales, it is the only one he has ever been diagnosed
20 with, but I think most importantly to this point, no
21 witness and no evidence in this case has ever
22 attributed Plaintiff Bales's chronic kidney disease to
23 any of those other conditions that Dr. Ross talks
24 about, such as the TINs.

1 So the Daubert fit analysis, when you look
2 at the case law, normally requires a nexus between the
3 expert's testimony and the facts of the case, such
4 that it is going to be helpful to the trier of fact in
5 resolving that disputed issue. Dr. Ross's testimony,
6 however, won't add anything to the discussion of CKD,
7 at least in 2007, since he himself has admitted there
8 is no reported association between PPIs and CKD before
9 2016.

10 Now, I do want to add a little bit to what
11 Mr. Horowitz has already said about reliability, just
12 kind of pointing this -- pointing you, Special Master,
13 to a couple of the actual examples of this that I
14 think are really quite fitting.

15 So, you know, plaintiff at length, as we
16 discussed, in their brief details a lot of the
17 materials that Dr. Ross looked at, case reports,
18 challenge, dechallenge reports, but the Daubert
19 reliability analysis requires more from a regulatory
20 expert than just simply, you know, recite the
21 standards.

22 So if you look at Dr. Ross's report, in
23 Paragraphs 32 and 153, he acknowledges that both the
24 newly acquired information standard and the causal

1 association standard. So 21 CFR 314.3 and 201.57.

2 You are going to hear a lot more of those about that
3 in the preemption arguments tomorrow. I'm not going
4 to go into detail on that, but suffice it to say that
5 both of those regulatory thresholds have to be met
6 before a drug manufacturer can make a label change.

7 Now, Dr. Ross says, Well, the information
8 I looked at is newly acquired information, but other
9 than saying early on in Paragraph 153, newly acquired
10 information as defined by the FDA is information
11 showing a greater severity or frequency of risk, the
12 rest of the report is silent as to whether any of
13 those reports, studies or articles he cites actually
14 show a greater severity or frequency of risk.

15 So if he is not doing a comparison of what
16 he is alleging to a baseline of the knowledge that was
17 already known, he can't support an opinion that that
18 was newly acquired information meeting the regulatory
19 threshold. So that, I think, is where in our view the
20 reliability of his methodology breaks down is while
21 he's cited the correct standards and he has looked at
22 much of the information he might have looked at as a
23 medical officer of the FDA, he has never -- you have
24 heard several times today already -- connected the

1 dots. He never connects the dots between that
2 regulatory standard and the data he is looking at and
3 whether it actually meets the metric of a greater
4 severity or frequency of risk. In short, he is
5 skipping the most important step that as a regulatory
6 expert you take, applying the regulatory standards
7 that he learned and experienced in his time at the FDA
8 to the data.

9 Now, I do want to mention just two more
10 quick adjacent points on Dr. Ross specific to the
11 Bales case. He does in his report express an opinion
12 that in 1995 there was already existing information
13 that would support a label change with respect to
14 acute TIN. He says that information existed by the
15 time that Takeda's Prevacid came on the market in
16 1995. So by definition, Dr. Ross's opinion as to
17 acute TIN is related to a pre-approval claim, there is
18 a lot of case law out there in the preemption context
19 that more or less uniformly acknowledge that
20 pre-approval claims are preempted.

21 So regardless of what else we said about
22 Dr. Ross, we don't think that he should be allowed to
23 offer that opinion as to ATIN with respect to the
24 Bales case for Takeda.

1 And there are also a number of different
2 areas within his report where he claims that Takeda
3 was failing to carry out pharmacovigilance obligations
4 under the regulations. It is very clear there is no
5 private right of action to enforce those various
6 regulatory obligations under the FDCA. So to the
7 extent he is offering testimony that would suggest
8 Takeda failed to carry out, say, pharmacovigilance
9 obligations under the regulations, we think that's
10 clearly preempted under a fraud on the FDA Buckman
11 preemption theory.

12 So with that I'd like to reserve just a
13 couple of remaining minutes for rebuttal. Thank you.

14 THE SPECIAL MASTER: Okay. Thank you. All
15 right.

16 Paul, go ahead.

17 MR. PENNOCK: Thank you.

18 First, I think I have to note that I feel
19 like I'm hearing a lot of new arguments and points in
20 the two arguments by counsel. One I would just like
21 to make mention of specifically, although there were
22 quite a few, that is this seeming innuendo that
23 somehow Dr. Kessler prepared all of -- you know, some
24 substantial portions of this report because of when

1 Dr. Ross was engaged. It is simply not true, A, and,
2 B, it is not part of the record, and, C, really should
3 not have been in this record, this transcript
4 shouldn't have been littered with that. I don't think
5 it's something that should have been part of this
6 discussion. I would move to strike it.

7 And Dr. Ross, hopefully he will testify at
8 trial and when he does I think anyone attending will
9 be struck by his brilliance. He is a -- he is a
10 brilliant person.

11 In any event, so let's talk first about
12 qualifications. You know, somebody mentioned he is a
13 medical reviewer and so as a medical reviewer he, you
14 know, claims he knows how to approach all of these
15 pharmacovigilance issues.

16 Well, yes, he was a medical reviewer. He
17 also rose to the level of Deputy Director within FDA
18 in CDER. So, you know, his CV needs to be re-looked
19 at, I think, and these statements as to snippets of
20 his alleged lack of qualifications, although they -- I
21 think they said at the beginning they are not really
22 challenging his qualifications, so.

23 THE SPECIAL MASTER: I think my first question
24 was: You are not really challenging that he is

1 qualified to be an FDA expert? And I think
2 Mr. Horowitz said no to that, so, that they were not
3 challenging that.

4 MR. PENNOCK: Okay. Thank you.

5 So I'd like to turn next to the
6 methodology employed and described in the report
7 regarding his evaluation of the evidence in this case.

8 He is initially looking at, in this entire
9 body of evidence, as to whether or not there was a
10 basis under the law, under the regs for a warning that
11 had to be issued by these companies regarding anything
12 about renal toxicity and, you know, well, these drugs
13 and renal toxicity or chronic kidney.

14 THE SPECIAL MASTER: Well, that's something --
15 Paul, I don't mean to interrupt you.

16 MR. PENNOCK: That's all right.

17 THE SPECIAL MASTER: But that's something that,
18 as I said earlier, I feel like there is a disconnect
19 between the two sides on this, and if you can, I'd
20 like you to state what exactly your failure to warn
21 claim is. Is it just that the word, you know,
22 "chronic kidney disease" had to appear? I mean, your
23 expert seems -- Ross seems to say that ATIN and CTIN
24 are things that should have been warned of earlier.

1 I mean, I do -- I think the papers talk --
2 I mean, at least having sat down and read them, they
3 seem to talk past each other on that, and, you know,
4 their points -- the points that Mr. Horowitz and
5 Mr. Ruttinger were making were that -- that it is not
6 the same thing, and I get that it is not the same
7 thing, but I think it would be helpful if you could
8 address sort of what exactly is your failure to warn
9 claim here?

10 MR. PENNOCK: Absolutely, Special Master, and I
11 was getting to that and I apologize I was unclear.

12 I was talking about we initially asked
13 him, look at this evidence that exists and he applied
14 his methodology to look at it and see if there were
15 any evidence of renal toxicity and then I will talk
16 about what he found. And I know exactly the question
17 that you are asking, and I think I can adequately
18 address it.

19 But as far as his methodology is
20 concerned, I'll quickly say, it is laid out numerous
21 times in the report at Paragraph -- he discusses it at
22 Paragraph 69, 71, he discusses it at Paragraph 255,
23 120, 123, 270, 259, all of these places he discusses
24 how, if you are trying to evaluate if there is

1 reasonable evidence of a causal association between a
2 drug exposure and anything, these are the steps that
3 you go through in looking at the evidence and the type
4 of evidence that you looked at. And he did that.

5 I'm not entirely sure there is quarrel
6 with whether or not he followed that particular
7 method. It looks at temporality, biologic
8 plausibility, mechanism of injury, similarity to other
9 drugs, the, you know, nonclinical evidence, and then,
10 of course, case reports and challenge, rechallenge and
11 all of the things that we see in his description, but
12 he laid out as a method that's what you do.

13 Now, I'll turn to the conclusions. So
14 based upon his review of the evidence, Dr. Ross found
15 that by 1995 there was reasonable evidence of a causal
16 association that these drugs -- with these drugs and
17 acute interstitial nephritis, also known as acute
18 tubulointerstitial nephritis.

19 This is a disease entity or an injury
20 entity that has been known for a very long time, it is
21 associated with other drugs as well, prominently
22 NSAIDs, and by 1995, and there is -- this is in the
23 record throughout this case, by 1995 it was black
24 letter medicine that if you suffer from a severe

1 enough case of acute interstitial nephritis, you can
2 have damage to your kidney that will ultimately
3 continue to compromise your kidney throughout your
4 life and result downstream in chronic kidney disease.
5 That cannot realistically be disputed by defense
6 experts.

7 AIN, if it is severe enough, can cause
8 downstream chronic kidney disease, that one event over
9 a period of what, days or weeks, can happen. Okay.
10 So he says, if you look at the evidence that existed
11 to the companies, both internally and the published
12 evidence, there is no question that there was a
13 reasonable causal association between AIN and the use
14 of these drugs and, therefore, that's why he
15 mentioned, therefore, in his opinion the sequelae
16 should have also been mentioned in a warning that
17 should have gone into effect, that the warning should
18 have said, reasonably -- these drugs potentially can
19 cause AIN and AIN can potentially cause downstream
20 chronic kidney disease, the sequelae.

21 Now, there is a final common pathway to
22 chronic kidney disease that is itself a chronic kidney
23 disease and that is chronic tubulointerstitial
24 nephritis. The definition, as was mentioned earlier

1 by Stephanie, of chronic kidney disease when looked at
2 by nephrologists, they look and they say, Okay, does
3 my patient have an estimated glomerular filtration
4 rate of less than 59 -- I'm sorry -- less than 60 and
5 if he or she does I'll repeat it in three months and
6 if it is still such I'm going to say she has chronic
7 kidney disease. This is a clinical description of
8 what's happening in a patient. But what the
9 underlying process is for those instances,
10 particularly in PPI, what underlying processes for
11 certain drug-exposed cases and PPIs is chronic
12 tubulointerstitial nephritis. It is a condition that
13 is being created by the drug year after year after
14 year after year and ultimately all of that reserve
15 that you are born with in your kidneys has been
16 destroyed and now you present to your doctor and
17 you've got an eGFR of 58, 56. Now you are in that
18 realm. It repeats and you've gone chronic kidney
19 disease.

20 So the final -- but this -- so what --
21 what the process is from these drugs that results in
22 that clinical diagnosis is chronic tubulointerstitial
23 nephritis, and that is what Dr. Ross identified in the
24 case reports that that had come out by the, you know,

1 approximately 14 or 15 of them, by early 2003. And in
2 addition to the published reports, reports from a
3 clinical trial, I believe it was from Takeda, in early
4 '03. They found in the histopathology evidence of
5 this chronic damage to the kidney that was occurring,
6 it is called chronic inter -- tubulointerstitial
7 nephritis. That's what it is. That's what was
8 happening in a number of patients. That is what was
9 identified histopathologically and that together with
10 the other evidence that he describes in this section
11 of his report is what led him to conclude that by
12 early '03 a warning should have gone in place that
13 said, these drugs, something along the lines, and I
14 don't have the exact language here, but the -- these
15 drugs have the potential -- these drugs potentially
16 cause chronic interstitial tubulo nephritis.

17 Now, at that time, and this is important,
18 and it was Riggs, and I think, Special Master, you
19 pointed it out, I think, but in case we were missing
20 each other, there had not yet been epidemiology that
21 was extant that found an association between diagnosed
22 chronic kidney disease in people at that time, that
23 did not occur indeed until 2016. That's when the
24 first published literature came out saying -- and by

1 the way, that published literature didn't happen by
2 accident. It happened because of all of this other
3 evidence that was building in the medical literature
4 that the companies never warned about.

5 And so they go out and they look and they
6 say, Hey, if these drugs really are causing an acute
7 interstitial nephritis in a lot of people or if they
8 are causing a chronic -- a chronic interstitial tubulo
9 nephritis, then let's look at and see whether this is
10 showing up in the diagnostic codes. You are not going
11 to get diagnosed with chronic tubulointerstitial
12 nephritis. You'd have to do a kidney biopsy and some
13 pathologist will have to say that. You are going to
14 get diagnosed with chronic kidney disease. So if
15 you're going to say let's see if that's showing up in
16 the epidemiology -- in the diagnoses of patients, then
17 that's where the epidemiology came in. And they came
18 in -- there is a plethora of it, as you know. Study
19 after study.

20 THE SPECIAL MASTER: Can I ask a question, and
21 we are almost out of time, but, you know, his
22 experience is not as a nephrologist, right, Ross's
23 experience, and, I mean, I think a lot of his argument
24 and that you've described and that I've read is that,

1 you know, there -- these other conditions are --
2 result in chronic kidney disease or chronic kidney
3 disease is a sequelae of these other conditions. And
4 I think he is qualified as an FDA expert, but is he
5 qualified to make that judgment and, if so, why?

6 MR. PENNOCK: Yes. And the -- well, the reason,
7 it is multifactorial.

8 No. 1, if you look at his training and
9 experience, I mean, this is an immensely qualified
10 individual. We are talking about somebody that he --
11 you know, he got his bachelor at NYU in biochemistry,
12 he then went on to -- I'm sorry -- bi -- he got his
13 Bachelor of Science at Yale in molecular biophysics
14 and biochemistry. Then he went on ultimately to get
15 his MD at NYU, and went on from there to a fellowship
16 at Yale in infectious disease. I mean, but the
17 breadth and depth of his understanding of various
18 aspects of science, medical science and -- and in
19 particular internal medicine I think really can't be
20 questioned.

21 Now, specifically, though, when you get
22 to -- when you get to the FDA, you are working, they
23 don't have -- they are not sitting around with
24 nephrologists reviewing everything that happens or a

1 cardiologist reviewing everything that happens. When
2 you are reviewing case reports that are coming out,
3 adverse event reports and all of the other evidence
4 that you mentioned that is relevant to a review as to
5 whether there should be a warning, that is being done
6 by various types of internal medicine doctors,
7 typically, in FDA, which he did. You know, they are
8 not specifically limited to the fields that they may
9 have been trained and specialized in.

10 And one reason is, and this is the punch
11 line, if you will, Special Master, they are not
12 calling causation. I don't -- I would not argue that
13 I could necessarily bring Dr. Ross in to say, These
14 drugs indeed caused this problem. They are calling
15 reasonable evidence of a causal association.

16 It is the very reason why Dr. Kessler has
17 been approved and has testified so many times
18 throughout the country in many different courts. He
19 doesn't have -- he is not board certified nor does he
20 even practice in many of the fields that he has
21 testified in. He testified in our case in Actos that
22 involved urology and bladder cancer. He has testified
23 in cardiology cases, he has testified in -- probably I
24 can't name them all, but I know you realize, Special

1 Master, that when you are a regulatory expert, are you
2 trained to evaluate evidence, scientific and medical
3 evidence to come to an opinion on reasonable evidence
4 of a causal association, which is a step down from
5 saying: In my opinion to a reasonable degree of
6 medical certainty that drug caused that problem. And
7 he will not be giving that ultimate opinion. He is
8 giving the ultimate opinion on the regulatory issue of
9 was your duty to warn triggered, was there enough to
10 trigger that warning. And that's what he did, forgive
11 the expression, all day long when he was at FDA. I
12 hope that at least begins to answer your question.

13 So I don't know if I'm out of time,
14 Special Master.

15 I think you are on -- let's not mute the
16 Special Master.

17 MR. BROWN: Ellen, you are on mute.

18 MR. PENNOCK: You are on mute, Special Master.

19 THE SPECIAL MASTER: Okay. Sorry. Hi.

20 You are past time but that was because I was
21 asking questions.

22 Mr. Horowitz or Mr. Ruttinger, do you want
23 to give a short response.

24 MR. HOROWITZ: I would like to address very

1 briefly two points and then turn it over to Mike if
2 that's okay.

3 THE SPECIAL MASTER: Sure.

4 MR. HOROWITZ: The first is I just want to
5 briefly address the quote/unquote innuendo that
6 Kessler wrote the report. I don't know how he got to
7 that. That certainly was not what I was suggesting.

8 My only point was that he -- "he" being
9 Dr. Ross slept at a Holiday Inn in the two-month
10 period between when he was retained and generated his
11 274-page report and how that contrasts with the years
12 and years of FDA attention to this issue.

13 Secondly, the other point I'd like to
14 address is you asked very directly: What is your
15 failure to warn claim and, honestly, Ellen, I'm still
16 not clear, it was very -- it sounded very similar to
17 what I heard from Dr. Ross during his deposition, but
18 suffice it to say, and I think Mike laid this out
19 clearly, our position, and it's the reality of the
20 science and the medicine as reflected in the FDA
21 reviews, that Dr. Ross does not address head on, CKD
22 is a distinct condition and this idea that ATN with --
23 ATIN with sequela or CTIN is somehow the same thing is
24 not true, that's not the science.

1 And, you know, that -- I guess I'll leave
2 you with this, Ellen, it is very much like when I was
3 fussing with Dr. Ross or he was fussing with me about
4 the 2020 label change and where that landed. And, you
5 know, he said, not basically, he clearly said, I asked
6 him: Do you think FDA doesn't know the difference
7 between CTIN and ATIN for purposes of labeling, and he
8 said: Yes, they don't know what -- they don't know.
9 And that's just ipse dixit. That's just a --
10 perfectly sums up what we are dealing with here with
11 Dr. Ross in the context of this regulatory record.
12 Thank you.

13 Mike.

14 THE SPECIAL MASTER: Okay. Thank you.

15 MR. RUTTINGER: Special Master, if I may add
16 just a couple of very brief points.

17 You know, I heard Mr. Pennock say, and I
18 think this really nicely summarizes the moving target
19 that Dr. Ross's own opinions have been, that, you
20 know, chronic tubulointerstitial nephritis is itself a
21 chronic kidney disease. And there is a distinction
22 here between what plaintiffs are referring to as I'll
23 call chronic kidney disease lower case and the actual
24 clinical condition upper case of chronic kidney

1 disease which Dr. Ross himself acknowledges is a
2 distinct condition.

3 Plaintiff Freddy Bales was diagnosed with
4 chronic kidney disease upper case. He was never
5 diagnosed with chronic kidney disease lower case,
6 chronic tubulointerstitial nephritis, acute
7 tubulointerstitial nephritis, or any of these other
8 kidney conditions that plaintiffs are referring to.

9 What it really drives back to me is that
10 point you raised, Special Master, about saying,
11 plaintiffs are really arguing here, you know what,
12 that a warning should have been made about some sort
13 of generalized renal toxicity.

14 Now, we are not arguing preemption today,
15 we'll talk about that tomorrow, but I just want to
16 preview that if that is plaintiffs' failure to warn
17 claim, I think they are in a lot of trouble, because
18 when the FDA reviewed all of the information out there
19 leading up to its 2020 label change and looked at
20 options, including options for potentially warning
21 about chronic kidney disease, what the FDA said in
22 response at that time was: An unqualified chronic
23 kidney disease listing, separate and apart from
24 interstitial nephritis, might communicate a belief in

1 a predictable or a generalized renal toxicity from
2 PPIs which, if found, possibly countered clinical
3 experience.

4 The last point I want to mention with
5 respect to the methodology that Mr. Pennock said
6 Dr. Ross employed, he said he did what he would have
7 done at the FDA in determining that that reasonable
8 causal association threshold was met. I see him say
9 that that is met, I see him cite the documents that he
10 claims meet them, but I don't see any discussion
11 anywhere in Dr. Ross's report as to why those reports
12 actually cross that reasonable causal association
13 threshold.

14 The FDA, as you know, has a lot of
15 different regulatory standards, including different
16 degrees of causal association that might be relevant
17 to, for example, a warnings or precautions indication,
18 as opposed to adverse events. So the FDA knows that
19 it is not just a one short hop from data to a
20 reasonable evidence of a causal association. And
21 that's the leap and inference that Dr. Ross makes here
22 that we believe is so unreliable.

23 MR. PENNOCK: I would ask a minute to respond.
24 Can I have one minute to respond to that?

1 THE SPECIAL MASTER: Yes, yes, go ahead.

2 MR. PENNOCK: Thank you.

3 First, Dr. Ross's opinions as to what the
4 warnings should have been in '95 and 2003 are
5 explicitly stated in his report. And secondly, to --
6 this -- this notion that he had to say chronic kidney
7 disease, this capital letter thing that has just been
8 thrown out, I think that it's -- it's belying their --
9 either their lack of understanding of the medicine or
10 their attempt to just confuse the situation
11 semantically here. It would be like telling me that
12 there is a compound that causes atherosclerosis and
13 there should have been a warning 20 years ago that
14 this compound causes atherosclerosis. And they say,
15 Well, wait a second, all of your plaintiffs suffered
16 heart attacks that required stenting or killed them,
17 so, I mean, what does that have to do -- they suffered
18 myocardial infarctions. What does that have to do
19 with atherosclerosis.

20 And so his -- the warning is clearly
21 stated in his report, I think the Special Master has
22 seen that. Thank you.

23 THE SPECIAL MASTER: Okay. Thank you. So I
24 think we are going to Dr. Fine now, and who is arguing

1 for the defendants?

2 MS. RYDSTROM: That's me, Special Master,
3 Jessica Rydstrom of Williams & Connolly.

4 THE SPECIAL MASTER: Okay. Hello, nice to meet
5 you.

6 MS. RYDSTROM: Nice to meet you as well.

7 So I am -- I will try and be brief because
8 I know I am in that coveted before-lunch spot.

9 THE SPECIAL MASTER: That's a bad spot to have.

10 MS. RYDSTROM: It really is. So I prefer to
11 think of it as I'm batting cleanup here, right, this
12 is the fourth, I'm batting cleanup here. But I'm not
13 going to tread any ground that the Special Master
14 obviously knows well about specific and general
15 causation, and I, candidly, I don't think I need to
16 because there is no real dispute here that they have
17 to be separate inquiries and that the opinions that
18 are submitted here in the Rieder case, which is the
19 focus of this motion, have to be separately
20 admissible.

21 And, of course, I would assume that there
22 is also no dispute that plaintiffs understand that it
23 is, of course, their burden to prove specific
24 causation. So not just that Nexium could cause CKD

1 but, of course, that Nexium did cause Mr. Rieder's
2 CKD.

3 And part of that inquiry is that they have
4 to adequately address the alternative risk factors.
5 And so where, as defendants have done here, we point
6 to alternative causes there aren't just plausible but
7 that are, in fact, likely and conceded, they have to
8 put something up to show that those alternative causes
9 weren't causation here. And I think the most -- one
10 of the things that makes this case different is that
11 the alternative causes that are raised and are not
12 just hypothetical alternative causes, right, they are
13 not just run-of-the-mill alternative causes, they are
14 among the most common causes of CKD and -- and that's
15 hypertension and obesity.

16 And honestly, Special Master, I don't
17 think that that is fairly disputed either. So what we
18 have here is an expert, Dr. Fine, who not only agrees,
19 as of course he has to, that those risk factors can
20 cause chronic kidney disease, but he goes on to say
21 that they did contribute to Mr. Rieder's chronic
22 kidney disease.

23 And the quote from his report is at
24 Page 11 and he says, and I'm quoting here:

1 "More likely than not hypertension and
2 obesity," so the hypertension from which Mr. Rieder
3 had suffered for the vast -- the majority of his adult
4 life, and his obesity, his swinging from overweight to
5 obese during this period of time, that those "more
6 likely than not contributed to his development of
7 CKD."

8 So they weren't just everyday risk factors
9 here, Special Master. They were enough that
10 plaintiffs' own expert, Dr. Fine, thinks that it is --
11 that they would have given him chronic kidney disease
12 regardless.

13 THE SPECIAL MASTER: Well, I think, can I ask --
14 can I pause you there for a minute, because, I mean, I
15 think, you know, a lot of is made of that "it's hard
16 to say" quote that -- that -- from I guess his
17 deposition. And, I mean, I went and looked at that
18 and it seems to me that what he is -- I agree with you
19 that he is not disputing that hypertension and obesity
20 are -- are causes of -- of his chronic kidney disease,
21 but I think what he is saying, and unless I'm
22 misreading it, isn't what he is saying is that the
23 taking the Nexium precipitated the -- the development
24 of chronic kidney disease or that it caused it to

1 occur sooner than it -- you know, it might have
2 happened anyway had he not taken Nexium but it might
3 not have happened at that time or it might have
4 happened down the road further or something like that.
5 And isn't that -- I mean, isn't that the kind of thing
6 you deal with in cross-examination, the extent to
7 which one cause versus another is more likely to be,
8 you know, that there is multiple factors and, you
9 know, what the role of the Nexium was is -- is
10 something I think you can deal with on
11 cross-examination here.

12 Isn't that the way to address this,
13 instead of excluding his testimony?

14 MS. RYDSTROM: So, I suppose I -- a couple of
15 things. The first is, and I agree with you, that
16 there is a lot baked into that "it is hard to say"
17 quote, right? And it is certainly the case that he
18 goes on, after saying "it's hard to say," and one of
19 the things that he clarifies, Special Master, is that
20 it's -- he thinks that this GFR at 60, which we know
21 is very low, he is very careful to say that it is
22 normal for him, right. He can't, of course, say that
23 that's a normal GFR for a man in his 40s because it's
24 not. It is quite low. And -- and what's missing

1 there on this -- on this -- his attempt to sort of
2 save the role of Nexium is whether what's normal for
3 him is normal for others, right?

4 And that's the question that considers
5 those risk factors, exactly the ones that he doesn't
6 get to, this hypertension and the obesity. And what
7 you are asking, really, is, is this a weight and not
8 an admissibility question. And I think that is --
9 that goes back to the cases that we've cited in the
10 brief, right, that talk about, as I know you were well
11 aware, this really fundamental nature, gatekeeper
12 nature, of course, that is as appropriate in the
13 specific causation question as it is in the general
14 causation, and I suppose the reason that it's
15 admissibility and not weight here, why this isn't
16 something that can be adequately addressed on
17 cross-examination but really needs to be held out at
18 this stage, Special Master, is because these aren't
19 obscure risk factors that we are talking about. These
20 are among the main risk factors for chronic kidney
21 disease and they are the ones that he doesn't
22 adequately address in his report or at his deposition
23 testimony.

24 So when you look at the main question

1 here, which is: What does he leave us with, right?
2 If it is -- if you take away, why does he tell us that
3 hypertension and obesity are not what is actually
4 causing chronic kidney disease, why those aren't the
5 sole causes of Mr. Rieder's kidney disease.

6 And he goes back to this temporal
7 relationship. That's really what he resorts to. And
8 he looks at the time that Mr. Rieder was taking the
9 medicine and he says, Well, he got worse while he was
10 on it and he stopped getting worse when he stopped
11 taking the medicine.

12 And what we know, of course, is that that
13 temporal relationship isn't enough. It is not
14 sufficient except in very, very rare circumstances.
15 And, of course, this isn't the case that fits those
16 circumstances, this isn't, you know, someone going to
17 work in a cloud of chemicals and getting sick and then
18 going home and feeling fine and getting sick when he
19 shows up again for work the next day.

20 There are two data points in the timing.
21 There is two data points in this analysis. The start
22 of the medicine and the stopping of the medicine.
23 And -- and what is not addressed here is why on that
24 second data point, the timing of the removal of the

1 medicine when he goes off Nexium, what's not
2 adequately addressed is all of the other factors that
3 are at play, all of the other steps that Mr. Rieder is
4 taking to improve his lifestyle, including losing that
5 significant amount of weight.

6 THE SPECIAL MASTER: Yeah, I -- I hear your
7 point here, but it seems to me, just looking at this
8 expert, is that he does acknowledge that hypertension
9 and obesity are also contributing factors and he puts
10 the Nexium into the mix as well. I mean, I don't
11 think -- you know, the fact that he doesn't conclude
12 that those are the sole causes, I don't think that's
13 necessarily a basis for exclusion. Again, I go back
14 to, I think, isn't -- you know, maybe it's not the
15 strongest causation opinion in the world, but don't
16 you deal with that on cross-examination?

17 MS. RYDSTROM: Well, one thing I would say is if
18 the question is: What is the opinion that he is
19 giving here, right? And what is what he is trying to
20 say? Is he saying that the Nexium caused his CKD to
21 progress, because that's not necessarily the opinion
22 that he articulates in his report.

23 In his report he says it caused it to
24 develop, right? And the evidence that he gives for

1 that is really just this temporal relationship that he
2 started taking the medicine and that his GFR declines.
3 So that is, I could suppose, one opinion.

4 That is clearly unsupported because the
5 only evidence that he gives for that is this temporal
6 relationship, the start and the stop, and that's what
7 we see repeatedly in these cases is not enough, right?
8 That's what the Eleventh Circuit says in -- in Gwyn,
9 that's what the court in Lipitor, in the Lipitor case
10 had to deal with, this question of when you start and
11 when you stop, if the stopping is confounded by these
12 other things, then the expert has to do what Dr. Fine
13 has not done here, and that is to take some effort to
14 explain why it wasn't the obesity, why it wasn't the
15 hypertension, and if he concedes, as he does, that
16 those two things played a role, he has to explain to
17 the court so that he can helpfully explain to the jury
18 what percentage or how much of it is due to his
19 stopping Nexium versus those other two factors, and he
20 doesn't do that.

21 What he does is he admits those two other
22 factors are at play as, of course, he has to, because
23 they are among the two biggest factors in -- for
24 someone developing chronic kidney disease, and he

1 basically says, Okay, so why wasn't it those things,
2 well, his hypertension was treated, his obesity was
3 mild. And what we see in those other cases, what we
4 see in the Lipitor case, what the Eleventh Circuit
5 told us in Gwyn is that you have to do more than hand
6 wave at the other two -- at the other factors, you
7 have to explain why it is that those aren't the sole
8 cause.

9 And as, Special Master, as you pointed out
10 earlier, he can't even really do that. He struggles
11 with this, and that's what that "it is hard to say"
12 quote is about, right. He is struggling to explain
13 and really provides no explanation for why in the
14 absence of his hyper -- in the absence of taking the
15 medicine he wouldn't have gone ahead and developed
16 that -- that chronic kidney disease in any event.

17 And so what we have here is -- is a
18 question where courts who have been presented with
19 these similar situations, what they tell us is that
20 the experts have to do more than what Dr. Fine has
21 done here in order for their opinions to be helpful.
22 And that's particularly true where we aren't dealing
23 with these obscure risk factors, we aren't dealing
24 with having to rule out some very hypothetical risk

1 factor, but these are -- this is a disease that has
2 clear and well articulated risk factors that no one,
3 of course, not even Dr. Fine, denies were at play and
4 they are not just any risk factors but they are among
5 the most prominent ones, and Dr. Fine ought to have
6 known that in order to get past causation here he
7 needed to meaningfully engage with those risk factors
8 and he did not.

9 So with that, I'll reserve the remaining
10 time for rebuttal. I'm happy to take, of course, any
11 questions that you might have.

12 THE SPECIAL MASTER: Okay. Thank you.

13 Okay. I'm guessing, Stephanie, are you
14 doing this one?

15 MS. O'CONNOR: I am.

16 THE SPECIAL MASTER: Good guess, right.

17 MS. O'CONNOR: So I think one of the first
18 things I want to say is I'm less interested in what
19 the Eleventh Circuit has to say than I'm interested in
20 what the Third Circuit has to say. And I think the
21 Third Circuit is a lot less dogmatic, if you will,
22 about what it is that the plaintiffs need to show.
23 And I would point out that the Heller case relied on
24 by the defendants actually supports that Dr. Fine did

1 a proper analysis, a proper differential diagnosis
2 that rests on, I believe the expression might be "good
3 grounds."

4 But let me go back a little bit, if I may,
5 Ellen. I want to address some of the more specific
6 issues that were raised by counsel.

7 First of all, Dr. Fine, as I think you
8 know, is a board certified nephrologist. He is at the
9 Johns Hopkins University and is most recently an
10 associate professor of medicine there. He has been
11 treating patients for 30 years, nephrology patients in
12 particular, and is absolutely qualified to offer
13 opinions here from the outset.

14 In terms of how he approached the
15 differential diagnosis, he reviewed all of the records
16 that were available to him, the same ones as the
17 defense experts reviewed, he mapped out, very
18 significantly, he mapped out certain parameters that
19 he thought were key to arriving at his differential
20 diagnosis and ruling in Nexium, ruling out other
21 factors and ruling in certain factors as contributing.
22 And the two facts, he ruled in PPIs definitively and
23 he also states at Page 11 of his report that both
24 hypertension and obesity may have played a role.

1 Now, counsel is completely incorrect in
2 taking the position or stating it, she obviously
3 didn't read Dr. Fine's report, general report or any
4 of the other experts, for that matter, hypertension
5 and diabetes are the main causes of chronic kidney
6 disease, not obesity.

7 And by the way, at Page 11 cited by
8 counsel of Dr. Fine's report, he indicates under this
9 section called Obesity, which is Section B at Page 11,
10 that:

11 "While it's been implicated in the
12 development of CKD, the role of obesity in the
13 development of CKD is somewhat controversial."

14 All right. Now, he doesn't say it doesn't
15 cause it, but he says it is controversial. That is
16 far and away from being one of the most important or
17 one of the two most important risk factors for CKD.
18 And, in fact, diabetes has been ruled out both by
19 Dr. Fine as well as his treating doctor, Dr.
20 Stoycheff.

21 That being said, Dr. Fine at Exhibit D of
22 this report that we have -- can we bring up Dr. Fine's
23 report, and I would like to go to, if I may, Special
24 Master --

1 And if we go to Exhibit D, all right, and
2 just come down.

3 As you can see, Special Master, Dr. Fine
4 mapped out Mr. Rieder's weight with all of the data
5 that he had available to him at the time starting with
6 April 25th, 2002, when we have the first note that he
7 started Nexium, up through March 15th of 2021, which
8 will be the last page, all right.

9 And you can see as we scroll through and
10 Dr. Fine actually describes Mr. Rieder's weight as not
11 being really bad, that he hovers, if you will, he is
12 on the side of obesity at times and other times not,
13 but basically, his -- and if we can just go back a
14 little bit, his BMI, body mass index, hovers at the
15 30, sometimes above -- keep going, please -- sometimes
16 below.

17 So the obesity that all of the hand waving
18 is about is at best borderline obesity, sometimes
19 obese, sometimes not obese. And given Dr. Fine's
20 opinion that obesity itself is controversial, this is
21 not the level of obesity that doctors, nephrologists
22 are worried about when looking at causes for CKD, and
23 I believe that Dr. Fine says that.

24 I'd also like to talk about hypertension.

1 Can we go to Exhibit E of this report. And let's come
2 down. This is a chart entitled "Blood Pressure," and,
3 Special Master, Dr. Fine has mapped out and,
4 therefore, considered Mr. Rieder's blood pressures
5 beginning as early as April of 2002.

6 And if we can continue going down all of
7 the way through March of 2021.

8 He looked at all of these blood pressures,
9 not just two or three snippets of blood pressures that
10 were taken out by defendants' experts, but all of the
11 blood pressures over time. And, in fact, in his
12 deposition, counsel may remember, he referred to
13 Mr. Rieder's blood pressure as being beautifully
14 controlled at times and not being that high to cause
15 such concern. And that is throughout his deposition
16 and in his report.

17 Now, contrary to what counsel says, he
18 does rule out the two causes that he admits may have
19 contributed, but he does rule them out as the sole
20 cause.

21 And how does he do that? He does it, for
22 hypertension, by saying: Given the patient's
23 continuous use, PPI use, in conjunction with the
24 patient's underlying treated hypertension, in my

1 opinion PPI use is the, not are, is the substantial
2 factor in causing the development of CKD, but his
3 hypertension may have contributed in that it was an
4 underlying condition.

5 He has clearly ruled it out as the sole
6 cause.

7 The same thing with obesity, after telling
8 us in the same page, at Page 11, after indicating that
9 it is controversial, he also goes on to say it's more
10 likely that it associates with diabetes and
11 hypertension and that any association of obesity of
12 renal injury is driven by obesity's impact on these
13 two health conditions. And, again, I remind Special
14 Master that he does not have diabetes.

15 He goes on in the same paragraph to talk
16 about: "Mr. Rieder exhibited mild obesity that tended
17 to wax and wane at times, albeit he weighed more in an
18 earlier period of time when he was ingesting Nexium
19 daily."

20 Now, this is very key.

21 "The stabilization of his kidney function
22 after his discontinuation of Nexium is more consistent
23 with the removal of that exposure than with the effect
24 of his weight loss. His kidney disease is currently

1 progressing and weight loss does have a role in
2 slowing that progression."

3 Mr. Rieder's weight is not that much
4 different today or in 2015 or earlier years when he
5 stopped taking Nexium.

6 What I'd like to do is, can we put up the
7 graph from Page -- I think it is Page 4.

8 In addition to mapping out all of the
9 parameters that address Mr. Rieder's health
10 conditions, Dr. Fine in Figure 1 entitled "Estimated
11 GFR Changes Over Time" shows us in a pictorial form, a
12 picture is worth a thousand words, that prior to 2006
13 Mr. Rieder's GFR is in the normal range. Counsel may
14 not like that. Their experts may not like that, but
15 Dr. Fine has opined that it was within the normal
16 range.

17 And, again, I spoke to this issue earlier,
18 CKD as an entity, and I'm not going to talk about
19 upper or lower case, but CKD as an entity is defined
20 as a GFR less than 60 for a period greater than three
21 months.

22 In this case we do not see this decline in
23 GFR until 2006 where it is at 51, according to the
24 graph, and this is fully four years after Mr. Rieder

1 began taking Nexium.

2 Now, his weight is pretty much the same,
3 his blood pressure, there are some rises, there are
4 some dips, but if you look at this graph, what you see
5 is a downward trajectory, clearly, of his kidney
6 function. There are a few dips here and there and the
7 doctors will explain that these are physiological
8 differences, but the redline that we get to is in
9 2015.

10 Now, Mr. Rieder was taking PPIs daily and
11 continuously until his last prescription filled in
12 January of 2015 for 90 pills, he ingested 79 of those
13 90 pills, as the deposition testimony shows, which
14 took him to the end of March of 2015.

15 And then what happens? We see a
16 stabilization, as Dr. Fine pointed out, of the GFR.
17 Blood pressure, weight, yeah, there was some weight
18 loss, yeah, maybe he is working a little bit harder on
19 his hypertension control. Now he is under the care of
20 a nephrologist.

21 But look at that as you go across, it is
22 very, very stable until we get to about 2020 and now
23 we are seeing a downward decline, nothing else has
24 changed, his weight is pretty much the same, blood

1 pressure is pretty much the same, but by this point in
2 time he has advanced kidney disease.

3 Dr. Fine explains that aging does cause
4 loss of nephrons, but in someone who already has CKD,
5 and in our position induced by Nexium, that person
6 will get to the point of no return, and, in fact, that
7 is where Mr. Rieder is today. He is on a transplant
8 list at age, I think 63 years old.

9 THE SPECIAL MASTER: How do you square this with
10 the -- the -- the testimony where he says, you know,
11 "it's hard to say," because, I mean, they did -- he
12 was asked sort of the, Okay, is it your position that
13 but for the Nexium this wouldn't have happened to him.
14 And he says, you know, "it is hard to say." And it is
15 a lengthy and somewhat complicated answer, but it
16 seems to me that, you know, there is an argument that
17 by saying, I can't -- he does say, I can't say that he
18 wouldn't have be here if he hadn't -- he wouldn't be
19 here today perhaps if he hadn't taken the Nexium?

20 MS. O'CONNOR: One thing I would say is I'm not
21 aware that the Third Circuit is a but-for state in
22 analysis. I believe it is a substantial factor
23 analysis.

24 THE SPECIAL MASTER: Substantial factor, yeah.

1 MS. O'CONNOR: I would also point out, I would
2 also point out that Dr. Fine, in his comprehensive
3 general opinion report, which by the way is not
4 challenged by the defendants, so Dr. Fine's opinions
5 on general causation come in no matter what if we
6 choose to put him on, but what he does also do in his
7 general opinion report is he addresses not only those
8 studies, of which there are droves of them that find a
9 connection between PPI exposure and chronic kidney
10 disease, chronic renal insufficiency, other forms of
11 kidney disease, including AKI, but there are several
12 studies that he cites here at Page 11 of his report
13 that show that in people that already have kidney
14 disease or at risk of it, it will actually enhance or
15 exacerbate the progression.

16 So Dr. Fine has given two opinions, one
17 that it caused the development of CKD and that it may
18 have played a role in the progression, more likely
19 than not played a role in the progression of his
20 disease. It is a pretty rapid trajectory for a man
21 this age.

22 THE SPECIAL MASTER: Okay. Did you want to
23 respond, Jessica?

24 MS. RYDSTROM: Very briefly, Special Master.

1 I guess I would start where Ms. O'Connor
2 stopped, which is, it is true, we are not challenging
3 Dr. Fine's general causation report here, but, of
4 course, he has to do more than the general causation
5 report to explain why it is that, if he believes that
6 Nexium can cause CKD, why in this case on these facts
7 with a plaintiff, Mr. Rieder, who had this particular
8 health history and these preexisting risk factors,
9 Nexium actually did cause Mr. Rieder's CKD.

10 And that's what he hasn't done. He hasn't
11 explained why the other two -- it wasn't the
12 hypertension and it wasn't the obesity that caused
13 Mr. Rieder's CKD, and that's exactly what he is doing
14 with this quote. That is the question that he is
15 struggling with, that is the question that he can't
16 adequately address.

17 So very briefly, Special Master, if I
18 suggested that obesity was the most common risk factor
19 for chronic kidney disease, then I misspoke. What
20 I -- what I -- if it is, in fact, so controversial,
21 it's presumably not so controversial, Special Master,
22 that Dr. Fine didn't think it was necessary to say
23 explicitly in his report that obesity was more likely
24 than not contributing to Mr. Rieder's development of

1 CKD, not the progression of his CKD, but the
2 development of his CKD.

3 And that's the question that you asked me
4 earlier, is the opinion here that these risk factors
5 were simply making the CKD worse or is it that they in
6 the absence of Nexium wouldn't have led to his
7 developing CKD anyway. And the opinion that he gives
8 us in his report is that hypertension and obesity more
9 likely than not contributed to his development of CKD.

10 And what he doesn't do, Special Master, is
11 tell us, when he says: "Given the patient's
12 continuous PPI use," and this is in the report at
13 Page 11, "in conjunction with the patient's underlying
14 treated hypertension, in my opinion the PPI use is the
15 substantial factor in causing the development of his
16 CKD."

17 So what does he give us there, Special
18 Master? He only gives us two things, that he
19 continuously used PPI, that's the temporal
20 relationship, right, that's collapsing the general
21 causation and the specific causation here, and that he
22 had an underlying treated hypertension.

23 And that's simply not what we see when we
24 look at the graph that Ms. O'Connor put up. That is

1 not what we see when we look at Dr. Fine's own data
2 and chart. We don't see that this person, this
3 Mr. Rieder who had suffered from hypertension since
4 his 30s, so since he was a young man, who was being
5 treated with multiple medicines for hypertension and
6 who is still experiencing the blood pressure spikes
7 that Dr. Fine records in his chart, what we don't see
8 it treated hypertension. We see an individual who was
9 struggling to treat that hypertension.

10 And so if you take out, as the cases say
11 that we have to, that temporal relationship, we aren't
12 left with an explanation as to why the hypertension
13 would not in and of itself have been enough, given his
14 long history of this and other risk factors for
15 Mr. Rieder to develop chronic kidney disease.

16 THE SPECIAL MASTER: Okay. Thank you.

17 So I think, happily, we are at lunch break
18 time, and I guess what we suggested is we'd come back
19 at 1:20. I don't know if that assumed a 12:30
20 conclusion or not.

21 Okay. All right. Well, let's -- I don't
22 know, should we stay with the 1:20? Yeah, does that
23 sound okay? Does that work for folks? Does anybody
24 have a problem with that?

1 Okay. All right. So let's get back on at
2 1:20, okay.

3 (WHEREUPON, a recess was had
4 from 12:32 to 1:20 p.m.)

5 THE SPECIAL MASTER: Let's go back on the
6 record. And I think the first thing up on our
7 schedule is AstraZeneca's motion for summary judgment
8 on other grounds for Rieder.

9 Who is going to handle that for AZ?

10 Hi Mike. Go ahead, Mike Schissel.

11 Is he on mute?

12 You need to unmute yourself, Mike, I
13 think, I'm being told.

14 MR. SCHISSEL: Okay. I've done it.

15 THE SPECIAL MASTER: There you are.

16 MR. SCHISSEL: Can you hear me now?

17 THE SPECIAL MASTER: Yeah.

18 MR. SCHISSEL: Nice to see you, Special Master.

19 THE SPECIAL MASTER: It is nice to see you too.

20 Okay. Go ahead.

21 MR. SCHISSEL: Okay. So this is our motion on
22 summary judgment based on the issue of proximate cause
23 and we think that the issue has been adequately
24 briefed, but there were just a few points that we

1 would like to highlight for you, and I can do that, I
2 think, in a few minutes, and I have a PowerPoint that
3 hopefully you can see. Okay.

4 THE SPECIAL MASTER: Yes, I can see it.

5 MR. SCHISSEL: Yeah, so just a few -- just a
6 couple of foundational issues.

7 Obviously the plaintiff has the burden to
8 prove that his ingestion of Nexium was proximally
9 caused by an inadequate warning, and if the plaintiff
10 can prove that the label was inadequate, and we, of
11 course, disagree that it was inadequate, we believe
12 that it was fully adequate, but if the plaintiff bears
13 that burden then under Ohio law there is a rebuttable
14 presumption that the failure to adequately warn was
15 the proximate cause for the ingestion, and then we
16 have an opportunity to rebut it if this so-called
17 adequate warning would have made no difference in the
18 decision -- the physician's decision to prescribe the
19 drug, and we can do that with unequivocal testimony
20 from the physician that he would have prescribed the
21 drug despite the adequate warning.

22 Now, there are two doctors, two
23 prescribers in this case that matter. The first one
24 is Dr. Konold. He was the original prescriber. He

1 passed away before the litigation was filed and,
2 therefore, by no fault of either party his testimony
3 is unavailable to us.

4 The plaintiff argues that Dr. Konold's
5 death would preclude us from the ability to rebut the
6 presumption, and, therefore, summary judgment should
7 be denied. And what they are trying to do,
8 effectively, if that -- if that was to occur and if
9 that was the law, then a rebuttable presumption under
10 Ohio law would be turned into an un rebuttable
11 presumption merely because the prescriber happened to
12 pass away before the litigation was filed. And we
13 think that would be an unfair result, particularly
14 since I don't think anybody disputes that the -- that
15 the ultimate burden of proof on proximate causation
16 lies with the plaintiff. And of course the plaintiff
17 doesn't have to --

18 THE SPECIAL MASTER: What do you do when -- when
19 a doctor dies with the ceding presumption?

20 MR. SCHISSEL: So, you know, we don't have a lot
21 of cases in this particular situation. We've cited a
22 number of cases in, I think it was Footnote 6 of our
23 reply brief, where the case is made clear if the
24 prescriber's testimony is unavailable, either somebody

1 decides not to take his deposition, you know, he dies
2 during the litigation itself and his testimony is
3 unavailable, the cases do say that at the end of the
4 day the burden to prove causation lies with the
5 plaintiff and, therefore, they have to prove it
6 somehow.

7 And, you know, different jurisdictions can
8 deal with it different ways, reasonable doctor or some
9 other standard, but in no -- and we haven't found a
10 single case, and I don't think the plaintiffs have
11 cited a single case that said in a burden shifting
12 situation that just because the prescriber dies it
13 somehow turns the rebuttable presumption into an
14 un rebuttable presumption.

15 THE SPECIAL MASTER: Okay.

16 MR. SCHISSEL: And so that's the first doctor,
17 and that's really very much, I think, an issue for the
18 court.

19 The second doctor is Dr. Wallin, and he
20 took over the prescription from Dr. Konold
21 effectively. He began prescribing in 2008 until
22 sometime in 2010. His deposition was taken. The
23 plaintiff took it first and then we examined the
24 doctor after the plaintiff took the deposition.

1 And his testimony, we think, is un -- is
2 unequivocal. He says that he thinks that Nexium is --
3 was a safe and effective drug, it still is a safe and
4 effective drug, and, you know, he was examined by the
5 plaintiff and the plaintiff obviously, you know, in
6 the questions was suggesting that Nexium caused kidney
7 disease. And then we asked him when we had a chance
8 to examine him whether there is anything that he has
9 seen or heard today that would cause him to question
10 his decision to prescribe Nexium and he unequivocally
11 and affirmatively said no.

12 And so we think that, you know, based on
13 this record, one, they can't carry the burden on the
14 first prescriber and the second prescriber we think we
15 have overcome the presumption based on the deposition
16 of the prescriber, which is what the cases allows us
17 to do.

18 THE SPECIAL MASTER: Am I correct that he also
19 testified that if there had been a warning he would
20 have communicated that to Mr. Rieder and that
21 Mr. Rieder testified that if warned he wouldn't have
22 taken Nexium.

23 Does that -- does that change things?

24 MR. SCHISSEL: I don't think so because even if

1 we go back to the rebutting -- or the rebuttable
2 presumption -- or rebutting the presumption, the
3 warning, we rebut the presumption if the warning, an
4 adequate warning would have made no difference in the
5 physician's decision to prescribe. It doesn't say
6 that, you know, whether or not the patient would heed
7 any information passed on by the doctor. The question
8 is whether the doctor would prescribe, and that would
9 be the law -- that is the law in these learned
10 intermediary states.

11 So we think that that is a little bit of a
12 red herring or very much of a red herring in this case
13 because what you have to focus on is whether the
14 doctor would prescribe, and that's what the cases talk
15 about.

16 THE SPECIAL MASTER: Okay. So just to be clear,
17 if Rieder did -- if Mr. Rieder did testify that, you
18 know, if he had been given some kind of a warning he
19 wouldn't have taken it, you are saying that's
20 irrelevant given the learned intermediary doctrine?

21 MR SCHISSEL: Yes, that's our view.

22 THE SPECIAL MASTER: As long as the doctor says,
23 I still would have prescribed?

24 MR. SCHISSEL: That's right. That's right.

1 THE SPECIAL MASTER: Okay. Okay.

2 Sorry. Go ahead.

3 MR. SCHISSEL: No, and really, you know, the
4 third doctor, Dr. Oberlander, you know, the plaintiff
5 concedes that that testimony is -- is not necessarily
6 something that the court has to address, because at
7 the time that that doctor prescribed, Mr. Rieder's CKD
8 was fairly advanced at that point. And so both sides
9 sort of agree that, you know, that's irrelevant.

10 Now, if you want to consider it, you know,
11 that testimony, too, at the end of this long -- this
12 long back and forth, at the end of the day he says
13 that he would still prescribe the Nexium today.

14 So, you know, the testimony is there, but
15 at that point in time the plaintiff is saying, you
16 know, you don't even have to look at that one. Really
17 what matters is Dr. Konold and Dr. Wallin.

18 THE SPECIAL MASTER: Okay.

19 MR. SCHISSEL: And I will save anything else for
20 rebuttal at this point.

21 THE SPECIAL MASTER: Thanks, Mike.

22 Who is talking for the plaintiffs?

23 MR. AUTRY: I am. Good afternoon. Pleasure to
24 meet you.

1 THE SPECIAL MASTER: Nice to meet you.

2 MR. AUTRY: And I also wanted to thank
3 everybody, both defense counsel and yourself, for
4 being accommodating with my schedule a couple of weeks
5 ago.

6 THE SPECIAL MASTER: No problem. My condolences
7 on your family as well.

8 MR. AUTRY: I really appreciate it. It means a
9 lot.

10 Going straight into the argument here on
11 proximate causation for Mr. Rieder, I don't think it's
12 that complicated because we are in the State of Ohio
13 which has a rebuttable presumption that requires
14 defendants to produce evidence, unequivocal evidence
15 if they want summary judgment in their favor to show
16 that a stronger warning would have made no difference
17 in whether Rieder ingested Nexium. That evidence just
18 doesn't exist here. And, in fact, there is
19 substantial evidence, especially viewing the evidence
20 in the light most favor to Rieder, taking all
21 inferences in Rieder's favor, that a stronger warning
22 would have made a difference.

23 You know, starting with the first doctor,
24 which is several years, Dr. Konold, defendants'

1 position is basically that the rebuttable presumption
2 disappears if a doctor has passed away. There is no
3 Ohio law to support that and they are arguing for a
4 change in the law and they should be the ones that
5 should produce cases to say that a death of a
6 physician eliminates their rebuttable presumption.

7 The Ohio Supreme Court --

8 THE SPECIAL MASTER: Well, would you agree with
9 what Mr. Schissel says, that you are basically arguing
10 that it makes a rebuttable presumption irrebuttable
11 because obviously you can't get testimony from him, or
12 are there other ways you are saying that it could be
13 rebutted?

14 MR. AUTRY: You could potentially rebut it with
15 the testimony of plaintiff, you could potentially
16 rebut it with other evidence from the medical records.
17 The -- we are not -- a physician's testimony is not
18 the only possible way for defense counsel or a
19 defendant to present causation evidence. There is
20 plenty of evidence that can go to proximate causation.
21 And the issue right now, when we are talking about
22 what's unfair or fair, is defendants are seeking
23 summary judgment. They are seeking judgment as a
24 matter of law in their favor that they have met their

1 burden of production to overcome this rebuttable
2 presumption.

3 So in the sense of fairness, we are not
4 seeking judgment in Rieder's favor on this
5 presumption. We are asking for a trial. And
6 trials -- they will be able to present their evidence
7 to a jury. We are not seeking directed verdict on
8 this issue at this moment. We are simply saying this
9 is a jury question, viewing the evidence in the light
10 most favorable to Rieder and taking the inferences in
11 his favor, and that's especially true when you factor
12 Rieder's own testimony.

13 You know, the record is not silent as to
14 what would have happened between 2003 and 2008 were
15 there an adequate warning that -- on Nexium's label.
16 Rieder says, If that was conveyed to me from the
17 beginning, I would not have taken the product. If it
18 was conveyed to me after I had started taking the
19 product, I would have stopped taking the product. His
20 testimony is, in fact, unequivocal, even though it
21 does not need to be because we are the party -- we are
22 the non-moving party on a motion for summary judgment.
23 That's just step one.

24 Step two is Dr. Wallin, although you don't

1 have to get there because they have to rebut the
2 presumption as to all three physicians, Dr. Wallin's
3 testimony is that he would have discussed all
4 medications that had a risk of kidney injury when
5 Rieder's GFR dropped. He says that after two distinct
6 tests and he would have wanted to know whether
7 Rieder's medications had a risk of kidney injury.

8 Unfortunately for Dr. Wallin and for
9 Mr. Rieder, defendants did not warn about even acute
10 kidney injuries until the FDA required them to do so
11 in December of 2014, they did not warn about
12 tubulointerstitial nephritis until the FDA required
13 them to do that a year and a half ago. So at this
14 point that Dr. Wallin was meeting with Mr. Rieder, he
15 did not have the information at his disposal in the
16 Warnings and Precautions section to see that this
17 medication carried a potential risk, a reasonable
18 causal association of kidney injury to determine
19 whether or not to take Mr. Rieder off of that.

20 Further, you have, again, Mr. Rieder's
21 testimony. If this information was conveyed to me, I
22 would have stopped taking it.

23 And then you have Dr. Oberlander. And,
24 again, you don't have to get to step three because

1 they have to prove, they have to rebut the presumption
2 at all three steps. But if you get to step three,
3 Dr. Oberlander's testimony is that he had no
4 recollection of Mr. Rieder. His testimony was
5 before -- in November, before the FDA required --
6 November -- sorry -- I'm getting the years mixed up.
7 But at the point of his testimony, he was unaware of
8 the potential risk of long-term kidney injury and
9 would not have associated that with Nexium even at the
10 point of his deposition.

11 When he was asked to assume that Nexium
12 could cause long-term kidney injuries, he gave a very
13 qualified response in which he said, Well, it was a
14 long time ago, I don't really remember Mr. Rieder. It
15 is not the unequivocal testimony that you would need
16 to get judgment as a matter of law in your favor as a
17 manufacturer, viewing the evidence in the light most
18 favorable to the plaintiff, especially -- especially
19 where that plaintiff says, If I was told about this
20 risk, I would have stopped taking it.

21 And when you go to the learned
22 intermediary doctrine, that is important, because
23 defendants want judgement as a matter of law that
24 Rieder's doctors would have said, No, I am going to

1 prescribe this to you anyway even though you don't
2 want it. That is not a reasonable inference, but
3 nonetheless it would be an inference in their favor
4 which they are not entitled to at the summary judgment
5 stage, that Rieder's doctors would have prescribed him
6 Nexium even if Rieder says, I didn't want to take it.

7 This is especially true when you consider
8 the fact that Rieder was able to change his eating
9 habits in 2015 so that he did not need Nexium anymore.
10 When Rieder stopped taking Nexium in 2015 it was
11 because he decided to change his diet, he got his
12 heart rate under control. That could have happened in
13 2014, 2010 or 2006 if Rieder knew that there was a
14 risk of Nexium.

15 So the idea that Rieder's doctors would
16 have continued to prescribe him Nexium when he said he
17 didn't want it and even if he had got his heart rate
18 under control is an unreasonable inference and, again,
19 defendants at this stage are not even entitled to
20 reasonable inferences in their favor.

21 I need to mention a little bit this
22 Footnote 6 that defendants reference from their reply
23 brief. I believe it was Footnote 6. But there is a
24 footnote in their reply brief where they cite a lot of

1 cases to argue that the death of a physician goes
2 against the plaintiff.

3 It's important to recognize that they are
4 citing authority outside of Ohio and they are citing
5 cases that explicitly reject a rebuttable presumption
6 under various states' laws. Defendants conveniently
7 ignore that from their footnote and ignore that from
8 their argument today.

9 They cite a South Carolina case that says:
10 "South Carolina courts would not apply causation
11 presumption." They cite a Pennsylvania Common Pleas
12 County Court decision from 2005 that says:
13 "Pennsylvania courts have consistently declined to
14 apply any heeding presumption." They site an Eleventh
15 Circuit from Georgia, that says: "Deeds," referring
16 to a prior Eleventh Circuit case interpreting Georgia
17 law, "forecloses a holding that Georgia law provides a
18 rebuttable presumption that shifts the burden to the
19 defendant."

20 Defendants repeatedly cite authority in
21 their reply brief that explicitly rejects Ohio law and
22 rejects the rebuttable presumption that we are under
23 in this oral argument.

24 And I believe that is the gist of

1 everything I had to say, but I would be happy to
2 answer any questions, if you have them.

3 THE SPECIAL MASTER: Yeah. One thing, and I
4 don't know if it is necessarily relevant for this
5 motion, but, you know, you've characterized what the
6 warnings should be in a variety of different ways.

7 I mean, for purposes of this motion, I
8 guess, what is it, and I guess we talked a little bit
9 about this this morning, I don't know if you were
10 listening --

11 MR. AUTRY: I was.

12 THE SPECIAL MASTER: -- you know, what is it
13 that plaintiffs in the Rieder case are saying the
14 adequate warning would have been?

15 MR. AUTRY: Sure. And I'm going to give a
16 caveat because under Ohio law we are not required to
17 draft the label language. We are required to
18 demonstrate that the label was inadequate.

19 THE SPECIAL MASTER: Okay.

20 MR. AUTRY: But we do give several examples of
21 adequate -- of language that would be stronger that
22 would have, viewing the evidence in the light most
23 favorable to Rieder, changed the course of his -- of
24 his treatment.

1 So Rieder's doctors say and Rieder says
2 that if they had even -- and this is Dr. Wallin and
3 Rieder himself, if there was even knowledge of the
4 risk of kidney injury at the time, that he would have
5 stopped -- that that would have been relayed to him
6 and he would have stopped taking it.

7 So to the extent the defendants are
8 arguing that to show proximate causation we need
9 certain magic words in the label, viewing the evidence
10 in the light most favorable to Rieder, that is not
11 true. If Rieder's Dr. Wallin had been aware that
12 there was a risk of kidney injury at all and had
13 relayed that to Rieder, Rieder is pretty unequivocal
14 that he would have stopped taking it.

15 But further, if you look at our Dr. Ross,
16 and, again, this was gone into pretty extensively this
17 morning, it will be touched on again tomorrow in
18 preemption because it sort of bleeds through
19 everything, there was reasonable evidence of causal
20 association when it comes to chronic
21 tubulointerstitial nephritis by 2003 and acute
22 tubulointerstitial nephritis by 1995 and at that time
23 there was also, at '95, evidence of downstream risk
24 that acute tubulointerstitial nephritis could lead to

1 chronic kidney disease, and by 2003 there was evidence
2 of the chronic kidney disease risk.

3 And, again, as Paul talked about earlier,
4 chronic kidney disease itself is a term that we
5 ascribe to the nature of results from the tests. So
6 chronic kidney disease is basically a diagnosis that
7 says your GFR has been below 60 for 90 days or more,
8 whereas a lot of the medical literature will use the
9 term "chronic interstitial nephritis" or "chronic
10 tubulointerstitial nephritis" instead because they are
11 more talking about the long-term degradation or
12 deterioration of the kidney or permanent deterioration
13 of the kidney. But when it comes to --

14 THE SPECIAL MASTER: Okay.

15 MR. AUTRY: -- the label language itself, in
16 Rieder's case, viewing the evidence in the light most
17 favorable to him, there was plenty of language they
18 could have used that would have changed the course of
19 treatment.

20 THE SPECIAL MASTER: Okay. Thanks. I didn't
21 mean to take us down a, you know, a path that may not
22 be all that relevant to this, but I was just curious.

23 Mike, did you have anything else you
24 wanted to make?

1 MR. SCHISSEL: Yeah, very briefly just a few
2 points.

3 First of all, the rebuttable presumption
4 is rebutted by testimony from a physician that he
5 would have prescribed regardless of this so-called
6 adequate warning, whatever it is, and I think we still
7 don't know what that is in this case.

8 But what counsel said is that we could
9 rebut it by the testimony of the plaintiff. Well,
10 there is certainly no law to suggest that a plaintiff
11 can get up and say what a doctor would have done,
12 okay. So that's completely inadmissible testimony.
13 It makes absolutely no sense in this case.

14 Secondly, counsel says, Dr. Wallin would
15 have discussed. Well, that's not the standard. The
16 standard in these presumption cases is would he have
17 prescribed it. Doctors discuss adverse effects and
18 warnings with patients all of the time, but what the
19 relevant inquiry is, would he or she have prescribed
20 it.

21 And I think in this case Dr. Wallin's
22 testimony was pretty unequivocal. And they had an
23 opportunity at his -- they took his deposition first.
24 They could have said, If you had the following label

1 in front of you. Well, they didn't do that because,
2 frankly, we still don't know what that label would
3 say, but they didn't even ask that question. So what
4 we have is the un-refuted testimony from Dr. Wallin
5 that he thinks it is a safe and effective drug and
6 would prescribe it today. The same testimony from
7 Dr. Oberlander if you get there.

8 And, you know, I think those are the
9 points. I mean, the key points on the presumptions
10 you focus on, whether the doctor would have
11 prescribed. We know with first doctor, we don't have
12 the benefit of that, and you shouldn't change the law,
13 which is, at the end of the day, says that the
14 plaintiff bears the ultimate burden for proximate
15 causation and you need to focus on the conduct of the
16 doctor and the second doctor says and the third doctor
17 says I would have prescribed it in any event.

18 THE SPECIAL MASTER: You may not have asked this
19 at the deposition, no one may have, but was Dr. Wallin
20 asked whether he would have still prescribed it even
21 if the plaintiff didn't want to take it.

22 MR. SCHISSEL: He was not asked that at his
23 deposition. And -- no, he was not asked that. He
24 just said he would have passed it -- I think he said

1 he would have passed on the information if there was
2 this warning that nobody can really describe to him.

3 MR. AUTRY: Your Honor, if I could briefly
4 respond in less than 15 seconds?

5 THE SPECIAL MASTER: Fifteen seconds or less, go
6 for it.

7 MR. AUTRY: Sure.

8 Viewing the evidence in the light most
9 favorable to Rieder, Dr. Wallin's prescribing habits
10 would have changed. Dr. Wallin did not know even at
11 the time of his deposition that this was a risk of
12 Nexium and Dr. Rieder -- Wallin did change his
13 prescribing habits of NSAIDs because he knew at the
14 time that this was a risk of NSAIDs.

15 So there was a reasonable inference in
16 Rieder's favor that Dr. Wallin would have changed his
17 prescribing habits and he did not testify that had the
18 label warned of CKD or kidney disease at all that he
19 would have prescribed it anyway. That is nowhere in
20 the deposition.

21 MR. SCHISSEL: Can I respond to that in a
22 similar amount of time?

23 Yeah, the cases they cite on a doctor
24 prescribing -- changing prescribing habits is very

1 different from this case. It is not would you have
2 passed on a warning or would you have discussed a
3 warning with the patient. It is things like, in the
4 cases they cite, the doctor says, I would have been
5 more cautious, I would have used maybe less of a dose,
6 I would have eased this patient up to the dose that's
7 prescribed, that's changing a prescribing habit, not
8 passing on information to a patient.

9 So I think it is a very different
10 situation, and there is no record here that any of
11 these prescribers would have actually changed their
12 prescribing habits.

13 THE SPECIAL MASTER: Okay. Thank you very much.

14 MR. SCHISSEL: Thank you, I appreciate it.

15 THE SPECIAL MASTER: So I think we are moving on
16 now to plaintiffs' omnibus motion to exclude experts,
17 and I don't feel strongly about which order we want to
18 go in. I had Mann listed first but don't feel
19 strongly about that if folks on the plaintiffs' side
20 want to go in some other order? Anybody?

21 MR. AUTRY: I think that's fine. I'm going to
22 handle the Mann argument for us.

23 THE SPECIAL MASTER: Okay. I mean, is there
24 somebody who needs to go before you? I don't think

1 that there is any magic to the order, but... No?

2 MR. AUTRY: Speak now or forever hold your
3 peace.

4 THE SPECIAL MASTER: Go for it.

5 MR. AUTRY: Special Master, I think Mann's
6 opinion is a series of conclusions with no
7 methodology. Mann repeatedly praises AstraZeneca,
8 PRAC and the FDA, although testifying in her
9 deposition that she did not review the things that
10 AstraZeneca, PRAC or the FDA reviewed.

11 So she says that AstraZeneca's submissions
12 to PRAC were very thorough and forth going --
13 forthcoming, that AstraZeneca's PRAC submissions were
14 very good. A comprehensive report by AstraZeneca.
15 But she doesn't know what AstraZeneca had at its
16 disposable to submit to PRAC, she doesn't know what
17 AstraZeneca left out, she doesn't know what the
18 clinical trials say that AstraZeneca submitted in
19 writing.

20 She reviewed AstraZeneca's own PRAC
21 submission and said they must have reviewed everything
22 to get to this point. That is like reading a book
23 report and grading it without reading the book. It is
24 not a reliable expert opinion.

1 As an expert, you have to have -- if you
2 are going to have an opinion about an underlying
3 document, you should review that underlying document,
4 and that's what Mann repeatedly needs to do but
5 doesn't do.

6 She says PRAC's review was careful, that
7 PRAC's review was comprehensive and thorough, but she
8 did not know what PRAC considered, she did not know
9 what the records say that PRAC considered, she did not
10 know what the clinical trials say. She ignored the
11 lion's share of the medical literature. She took a
12 head-in-the-sand approach to the record and then gave
13 opinions that PRAC, the FDA and AstraZeneca adequately
14 and thoroughly and well summarized that record. That
15 is not a reliable --

16 THE SPECIAL MASTER: Let me stop you there --
17 let me stop you there, because I read your papers.
18 And a lot of your arguments, it seems to me, seem to
19 rely mostly on her -- her supposed failure -- either
20 the failure to identify certain missing information,
21 and what you are -- you are saying now kind of sounds
22 the same way, that -- I mean, you don't know what you
23 don't know, right. And so she is presented with
24 reports and information that were submitted to the

1 FDA, and if I was reading the papers, they seem to be
2 saying that, Well, somehow she -- she didn't take into
3 account what wasn't there.

4 And I wonder if that's really the right
5 standard to evaluate testimony. I mean, you can only
6 look at what's there and evaluate whether that's
7 adequate or not. And, you know, in her experience as
8 someone at FDA, can only look at a report and say,
9 Would I have found that sufficient.

10 Like I say, I feel like maybe your
11 argument is kind of saying, Well, we have to look at
12 what's not in the report and I'm not sure that's
13 really what experts do.

14 MR. AUTRY: Special Master, I believe that's an
15 incorrect statement of what Mann did at the FDA. When
16 Mann was at the FDA, she reviewed the medical
17 literature, she reviewed the clinical trials, she
18 didn't just review a one-page summary of the medical
19 literature by a manufacturer. She didn't just review
20 a paragraph or two-paragraph summary of the clinical
21 trials, she reviewed the underlying data. This is not
22 what she did at the FDA. She had a methodology at the
23 FDA. That's a reliable methodology. That's not what
24 she did in this case.

1 In this case she reviewed a manufacturer's
2 summary of the record and then said that's a good
3 summary of the record. She says that's a thorough
4 summary of the record, a comprehensive summary of the
5 record. That is not a reliable opinion of praise. In
6 order to say that AstraZeneca did a good job in
7 reviewing the record, you have to actually review the
8 record yourself.

9 THE SPECIAL MASTER: So you are saying that she
10 has to review all of the raw data that went into any
11 report in order to say that that report was adequate
12 or sufficient?

13 MR. AUTRY: Not necessarily all. I mean, we are
14 not talking about --

15 THE SPECIAL MASTER: Where do you draw the line?
16 Where do you draw the line?

17 MR. AUTRY: Daubert says that it needs to be
18 reliable. If you completely take a head-in-the-sand
19 approach to the record, you can't have an opinion on
20 what that record says. She is just regurgitating
21 AstraZeneca's opinions and saying they are her on, and
22 not only that, saying they are good opinions.

23 THE SPECIAL MASTER: So I guess what I'm trying
24 to get to, you are describing it as a completely

1 head-in-the-sand approach.

2 What is that -- what are you saying --
3 where is the line that what the expert needs to look
4 at in the way of raw data, underlying data, studies
5 that support a report and what, you know, obviously
6 they can't review every piece of data that goes into
7 every report, and that's not what FDA reviewers do,
8 but where -- where is the line, that's what I'm trying
9 to understand.

10 MR. AUTRY: Well, when it comes to medical
11 literature, we've identified about, I think, three
12 dozen relevant pieces of published peer-reviewed
13 literature. That's not an insurmountable burden to
14 review those, but we would not be here and we would
15 not be filing a challenge to her if she reviewed 30
16 out of 32, but that's not what she did. She reviewed
17 a summation of the medical literature and then said
18 that's a good summation. You just can't -- that's not
19 a reliable opinion if you don't look at the underlying
20 record being summarized.

21 This is not -- our Daubert is not against
22 her because she should have spent 10,000 hours as
23 opposed to 2,000 hours. You know, we are not going
24 down that road. Her opinion is completely unsupported

1 and she is a mouthpiece for AstraZeneca to say -- I
2 mean, like, look at her opinion that AstraZeneca
3 appropriately labeled Nexium at all times. I cannot
4 for the life of me determine how she reaches the
5 conclusion that AstraZeneca could not have warned
6 about acute interstitial nephritis before 2014. I
7 have no idea how she gets there. I have read her
8 report several times, I have read her deposition
9 several times. How does she reach the opinion that in
10 2013 AstraZeneca's label was appropriate? How does
11 she reach the opinion in 2002 that AstraZeneca's label
12 was appropriate? I'm clueless. And I've read her
13 report several times and I've read her deposition
14 several times.

15 You need a methodology to get from Point A
16 to Point B. Your methodology cannot simply be the
17 manufacturer said it so I agree. That's just not a
18 reliable opinion under Daubert. The manufacturer can
19 say it to the jury just without an expert hired to say
20 the same thing and say we did a good job. And if the
21 manufacturer -- and if the expert is going to say we
22 did a good job, the expert needs to review the same
23 thing you were reviewing as the manufacturer to come
24 to the conclusion that your summary was a reasonable

1 one.

2 I mean, she says it was correct,
3 thoughtful, extensive, comprehensive and careful. I
4 don't know how she is reaching those opinions without
5 reviewing the underlying literature. She is just
6 rubber stamping assessments without reviewing those
7 assessments. Again, it is like saying a book report
8 is good without reading the book and this is not what
9 she did at the FDA.

10 THE SPECIAL MASTER: Okay. Let me ask you: Can
11 she -- do you think she can testify as to what --
12 whether the process that FDA followed in certain
13 circumstances was appropriate?

14 MR. AUTRY: I think her FDA opinions suffer the
15 same flaw as her AstraZeneca and PRAC opinions. She
16 did not look at the underlying data to determine what
17 was being considered or not considered. So I don't
18 think she can give a reliable opinion that the FDA
19 thoroughly reviewed what was out there because she
20 didn't and she didn't try to. Like, how can you give
21 an opinion that the FDA conducted a thorough review if
22 you don't even attempt as an expert to conduct a
23 thorough review yourself. I mean, it is not like she
24 made an effort and failed, it is not like she made an

1 effort and fell short, she just didn't try to conduct
2 a thorough review herself. She just jumped straight
3 to the conclusion that PRAC, the FDA and AstraZeneca
4 conducted a thorough review.

5 THE SPECIAL MASTER: All right. Anything else?

6 MR. AUTRY: I believe that's it, your Honor.

7 THE SPECIAL MASTER: Okay. Thanks. Who is
8 going to respond?

9 MR. MILLER: I'll respond to those.

10 Can you hear me okay, Special Master
11 Reisman?

12 THE SPECIAL MASTER: I can. Nice to meet you.

13 MR. MILLER: And for the record, I am Jake
14 Miller on behalf of AstraZeneca.

15 So there's a few things I'd like to say in
16 response to Mr. Autry's presentation. The first is he
17 did not even mention, from what I could tell, anything
18 related to the first two arguments that are actually
19 made in their briefing. So I will take from that that
20 plaintiffs have conceded that those two arguments have
21 been adequately and fully addressed and that they are
22 appearing to now shift the focus of their arguments.

23 For Mr. Autry's presentation, you might be
24 led to believe that Dr. Mann is somehow being put up

1 as an expert whose sole job is to opine on PRAC
2 issues. And I just want to point out some context,
3 right. Dr. Mann is offering a regulatory opinion
4 about the appropriateness of FDA's decisions vis-à-vis
5 the content of the Nexium label when it comes to
6 kidney disease. PRAC is one piece of the data that
7 goes into that analysis, it is just that, a piece of
8 data. And I'm going to talk about that but I just
9 want to make sure that we are talking about the
10 correct context. You know, Mr. Autry's presentation
11 seems to suggest or leave the listener with the view
12 that this is somehow an auditing opinion or something,
13 which it is not, it is a regulatory opinion.

14 Now, Mr. Autry said a couple of times that
15 Dr. Mann is simply regurgitating opinions or rubber
16 stamping opinions without doing her own analysis.
17 Frankly, Special Master Reisman, this is an absurd
18 position. I'm going to start just by talking about
19 the FDA side of things and then I'll go into the PRAC.

20 Mr. Autry said that Dr. Mann essentially
21 didn't do any of her own homework, so to speak, failed
22 to review any of the relevant underlying information
23 and simply just regurgitates what FDA concluded, and
24 that is a gross, gross misrepresentation of the record

1 here.

2 So just as an example, if you look at both
3 Dr. Mann's written report and importantly her
4 materials considered list, it is littered, littered
5 with the leading studies discusses a potential
6 association between PPIs and kidney disease, the very
7 studies that form the basis of FDA's own analysis.
8 She reviewed the Lazarus study, which is MCL No. 103;
9 she reviewed both the Xie studies, which is MCL Nos.
10 160 and 161; she reviewed the Attwood publication,
11 which is MCL No. 14, which discusses the randomized
12 Zofran and Lotus studies; she reviewed the Moayyedi
13 publication, which discusses the randomized COMPASS
14 study. And I don't mean to just make this a long list
15 of things that she reviewed, but just because I think
16 this was the focus of plaintiffs' presentation here,
17 she reviewed Simpson, MCL No. 153; Tomlinson, MCL
18 No. 157; Wu, MCL No. 159; Antoniou, MCL No. 1; Arora
19 MCL No. 3.

20 Special Master Reisman, I can go on and on
21 and on. I don't want to belabor the point. What I
22 want to suggest to you -- well, not suggest. What I
23 want to affirmatively say is Mr. Autry's assertion
24 that Dr. Mann essentially didn't do any of her

1 homework and didn't review any of the underlying
2 studies herself is simply a misrepresentation of the
3 record and the report.

4 Now, in addition --

5 THE SPECIAL MASTER: How do you respond -- hold
6 on.

7 How do you respond to plaintiffs' claim
8 that -- where -- that she reached conclusions without
9 supporting documentation for, I think some examples
10 that I saw were the PRAC submission and data relevant
11 to FDA's 2020 conclusion, and I think her deposition
12 testimony was cited by plaintiffs with regard to those
13 as areas where she did not -- or she said she did not
14 review support documentation.

15 Do you agree with them, disagree?

16 MR. MILLER: I don't agree with plaintiffs'
17 characterization at all. So there was a few -- there
18 were a few things that you flagged there, Special
19 Master Reisman. I'll try to address them all. If I
20 forget one, please remind me to address it.

21 But you mentioned, for example, the FDA
22 2020 decision. So, you know, I started my
23 presentation by talking about all of the underlying
24 studies that she herself reviewed, not just FDA's

1 analyses but the actual studies themselves, and those
2 leading studies are the very things that FDA itself
3 was -- was primarily and principally focused on in its
4 sort of 2016 to 2020 timeframe in evaluating whether
5 there needed to be a label update in 2020.

6 Now, in addition to reviewing those
7 studies, Special Master Reisman, Dr. Mann also
8 reviewed internal FDA analyses themselves, right. She
9 reviewed, for example, the FDA's internal analyses of
10 the Lazarus study, of the Xie study, of the Antoniou
11 study. She reviewed FDA's 2018 mechanism paper by
12 Dr. Fanti, which by the way notes that FDA had and
13 considered the PRAC analysis, which I'll get to. And,
14 I mean, again, not to belabor the point, Special
15 Master Reisman, but Dr. Mann reviewed copious
16 materials demonstrating FDA's analysis of the kidney
17 safety issues over many, many years. Just as an
18 example, Item No. 66 on Dr. Mann's materials
19 considered list consists of more than 500 pages of
20 internal FDA analysis of renal safety issues spanning
21 many, many, many years. And Dr. Mann's written
22 report, which Mr. Autry gives very short shrift to,
23 fully discusses the careful and thorough FDA analysis,
24 again, over many, many, many years. I mean, we are

1 talking going back to, you know, the mid-'90s all of
2 the way up through 2020, the FDA performed numerous
3 internal analyses of these issues. And the materials
4 that Dr. Mann reviewed clearly, clearly gives her an
5 adequate basis to say that the FDA was appropriately
6 and carefully assessing these issues and going over
7 them.

8 Now, Special Master Reisman, I believe
9 your question all touched on PRAC, and, okay, so let
10 me address that now.

11 You know, Mr. Autry, I think, really
12 ignores the scope of the information that is available
13 from the documents that Dr. Mann herself reviewed.
14 And I think it is important to mention those because,
15 again, plaintiffs would have you believe that what
16 happened is something completely different than what
17 actually happened.

18 Now, Dr. Mann's report includes an
19 in-depth discussion of PRAC's CKD assessment, the
20 accuracy of which plaintiffs do not and cannot
21 dispute. And the PRAC materials that Dr. Mann
22 reviewed established the following undisputed facts, I
23 want to underscore that point, Special Master Reisman.

24 Now, first, PRAC's review was prompted by

1 the publication of the Lazarus and Xie articles in
2 2016, again, both of which Dr. Mann reviewed and
3 discussed in her report. The information that
4 Dr. Mann reviewed establishes that AstraZeneca
5 submitted renal safety data to PRAC on more than ten
6 thousand patients and identified in that the number of
7 renal events observed in that universe of patients.

8 Now, the information that Dr. Mann
9 reviewed also shows that in addition to AstraZeneca,
10 Takeda and Eisai also submitted renal safety data to
11 PRAC. And in reaching its conclusion, PRAC, this is
12 PRAC now talking, said that this is the information
13 that we reviewed. And this can be found in the final
14 PRAC report. I believe it is on Page 22 in
15 Section 3.2.

16 PRAC says across all submissions for all
17 PPIs 64 trials, 64 trials, including over two --
18 excuse me -- containing over 22,000 patients were
19 included. They say 14 of these trials were more than
20 a year long and they included over 3400 patients and
21 four trials -- of those, four were more than three
22 years in length or three years or longer and included
23 over 1100 patients.

24 And PRAC went on to explain, Special

1 Master Reisman, that these trial timeframes are more
2 than sufficient to reach conclusions here because the
3 Xie study, which is one of the two studies that caused
4 PRAC to look into this, said that -- or showed that
5 the peak in the relative risk of renal outcomes,
6 including CKD, occurred after one to two years of
7 cumulative exposure.

8 So it was only after assessing all of this
9 data that PRAC reached its conclusion. And this
10 universe of information, again, all of which Dr. Mann
11 had available to her and considered, it plainly and
12 clearly provides sufficient grounds for Dr. Mann to
13 offer her opinion here.

14 And, again, I want to underscore
15 plaintiffs do not and cannot dispute the accuracy of
16 the PRAC discussion in Dr. Mann's written report.
17 Instead, you know, what they've done, Special Master
18 Reisman, is they've sort of pivoted to this theory
19 that plaintiffs have about AstraZeneca purportedly,
20 you know, manipulating is the word they used,
21 manipulating the data, and, you know, they claimed
22 that essentially, as I understand it, it is tough to
23 fully understand the argument, but as I understand it,
24 they are basically saying that in order for Dr. Mann

1 to be able to offer any opinion at all, she has to
2 essentially effectively audit AstraZeneca's submission
3 in order to affirmatively rebut plaintiffs'
4 manipulation theory, for which, again, there is no
5 evidence or basis in the record.

6 And I just want to emphasize one or two
7 other quick things, Special Master Reisman, with
8 respect to this. The materials that Dr. Mann reviewed
9 make clear that AstraZeneca enumerated the selection
10 criteria it was using to identify responsive
11 information to PRAC's request, and it is undisputed,
12 undisputed that PRAC has never raised concerns with
13 AstraZeneca's submission or AstraZeneca's selection
14 criteria.

15 And Dr. Mann also made clear in her
16 testimony that it is common for companies in response
17 to broad requests for data like it to identify a
18 universe of data in responding and that is precisely
19 what occurred here. I hope that was responsive to the
20 Special Master's question.

21 THE SPECIAL MASTER: Yes. Thank you.

22 MR. AUTRY: Your Honor, if I could briefly
23 respond?

24 THE SPECIAL MASTER: I kind of thought you

1 might.

2 MR. AUTRY: Thank you.

3 Your Honor, I have no idea what
4 AstraZeneca's counsel is talking about when he says
5 that Dr. Mann reviewed the clinical trial data because
6 she explicitly says in her deposition she did not.

7 You know, on Page 300 of her deposition:

8 "I looked at the summary of those trials.

9 "Okay. You looked at the discussion of
10 those trials in AstraZeneca's submission to PRAC?

11 "Correct, along with PRAC's review as well
12 as their assessment of those data."

13 She did not look at the data. I don't
14 care what's on her clinical trials list. She
15 testified under -- or what's on her materials
16 considered list. She testified under oath as to what
17 she considered and what she didn't. And under oath
18 she said she did not look at the clinical trial data.

19 Now, even though she didn't look at the
20 clinical trial data, her report in her deposition is
21 full of opinions about what the clinical trial data
22 shows or does not show.

23 "In clinical trials no significant
24 imbalances were observed for renal function and no

1 cases of interstitial nephritis were observed."

2 She did not look at the data to reach that
3 conclusion. She looked at what AstraZeneca said about
4 the data to reach that conclusion.

5 "No cases of interstitial nephritis have
6 been observed in clinical trials."

7 She did not look at the clinical trials to
8 reach that opinion about what the clinical trials
9 showed. She looked at AstraZeneca's summary of the
10 clinical trials to reach that opinion about what is in
11 the clinical trials. That is not a reliable opinion.

12 THE SPECIAL MASTER: Hold on. I just want to
13 ask -- I just want to ask you a question.

14 When you talk about clinical trial data,
15 are you talking about raw patient-by-patient data?
16 What exactly? I'm just trying to understand what the
17 documents are that you think she really did need to
18 review.

19 MR. AUTRY: Okay. So there are -- when you have
20 a clinical trial there is obviously thousands of
21 potential pages to review. All she reviewed was what
22 AstraZeneca put in as their summary to PRAC of what
23 those clinical trials show. She did not go even one
24 step beneath that. And then she looked at what PRAC

1 responded to AstraZeneca in their letter response.

2 These are summaries of summaries of summaries that --

3 and she is just taking them not only as face value.

4 She is saying they thoroughly, accurately and

5 correctly summarized the level beneath them. That is

6 an unreliable opinion because she is not looking at

7 the level beneath them. She looked at the summary.

8 THE SPECIAL MASTER: And the level beneath it is

9 what? It's the actual patient data?

10 MR. AUTRY: Yes. And she is not even looking at

11 how many trials were conducted. Like she is not even

12 going a level above that, right. So a level above

13 that and still relatively surface level would be how

14 many trials AstraZeneca conducted to determine if

15 AstraZeneca included all pertinent trials. She is

16 giving an opinion that AstraZeneca included all

17 pertinent trials, but she does not know how many

18 trials AstraZeneca had. She is giving an opinion that

19 AstraZeneca accurately summarized the trials but she

20 did not know what AstraZeneca was looking at to reach

21 those summaries.

22 And, you know, defense counsel is saying

23 that this is unreasonable to expect their expert to

24 audit their conduct. But that's the opinion their

1 expert is giving. Their expert is giving an audit
2 opinion that I've looked at what they did and they did
3 good. That has to be a reliable opinion.

4 THE SPECIAL MASTER: Thank you.

5 All right. I think we can move onto the
6 next one. I think it's -- the next one on my list was
7 Dr. Deo.

8 Hi. Jessica, are you going to do that
9 one?

10 MS. RYDSTROM: I am not, your Honor, because I
11 am opposing it.

12 THE SPECIAL MASTER: Oh, sorry.

13 MS. RYDSTROM: So I would rest, but I don't
14 think -- I don't know if that would go over very well.

15 THE SPECIAL MASTER: I don't think so.

16 MR. PENNOCK: Everyone will be able to rest
17 pretty quickly because my argument will be very short,
18 Special Master.

19 THE SPECIAL MASTER: Okay, Paul.

20 MR. PENNOCK: You know, the papers lay it out I
21 think pretty clearly and I think it boils down to
22 this: If Dr. Deo wants to come to trial or I should
23 say if his lawyers intend to try to put him on the
24 stand to say that the causes, the only causes of the

1 chronic kidney disease in Mr. Rieder are the things
2 that he outlines, he can't do it. He should be
3 excluded. He should be precluded from offering that
4 view, that opinion because what -- because he didn't
5 rule in everything that he needed to rule in and then
6 rule them out. This is sort of basic Daubert analysis
7 by any expert giving a causation opinion about
8 anything, whether it's a defense expert or a plaintiff
9 expert. You have to rule things in. You can then
10 rule them out.

11 You can say: Yes, I considered PPIs? And
12 do you think that that played any role in contributing
13 to his disease? No. Why not? I reviewed all of the
14 literature, I reviewed everything that is out there,
15 et cetera, et cetera, and I don't find that there is
16 sufficient support that these drugs can actually cause
17 chronic kidney disease and, therefore, I ruled it out.
18 That's how he would do this.

19 THE SPECIAL MASTER: So, Paul, is it your
20 position that Deo has to offer an opinion on whether
21 PPIs contributed or not in order to testify at all?

22 MR. PENNOCK: No, and I was about to give that
23 up, Special Master.

24 THE SPECIAL MASTER: Okay.

1 MR. PENNOCK: He could take the stand and he
2 could take the stand to say, Look, I have reviewed his
3 medical history and I believe that, you know, this --
4 his cardiac issues were a substantial factor in the
5 development of his disease and whatever else he wants
6 to throw in the mix. I think there are a couple of
7 other things in the mix. He said, I think those
8 contributed to his disease. But, you know, have at
9 it. I mean, if he --

10 THE SPECIAL MASTER: So, I mean, you were
11 anticipating my question. Doesn't that just go to the
12 usefulness of his testimony to the jury, right?

13 MR. PENNOCK: Yeah, then I think it's like,
14 okay, that's good. And what about PPIs? I don't have
15 any opinion on that. Why not? Because you didn't
16 read anything or review anything. Nothing. I mean, I
17 almost would invite him to give that opinion, but --
18 you know, to come to the stand for that.

19 But the bottom line is, I think certainly
20 if we put -- and they said this in their papers, and I
21 don't really disagree, if we put up the cardiologist
22 and say, Look, I looked at all of the cardiology here
23 and I really don't think that his cardiac issues were
24 substance or significant, and I don't think that they

1 in a meaningful way contributed to this kidney disease
2 and here is why. Well, then they can put Deo up and I
3 can't attest that, to say, Look, I looked at all of
4 the cardiology stuff too and I do think it
5 contributed. That's all fair game.

6 THE SPECIAL MASTER: So this is -- Rinder is the
7 expert you are talking about, right?

8 MR. PENNOCK: Yes.

9 THE SPECIAL MASTER: And so, I mean, I think,
10 you know, as reading over this stuff, it seems to us
11 that the scope of his testimony is going to depend on
12 what -- if Rinder testifies what he says, right?

13 MR. PENNOCK: I think that's exactly right. And
14 that's why he could end up getting on the stand. But
15 they are going to have -- they will have to be very
16 careful and circumscribe because they can't lead,
17 either deliberately give testimony or leave the
18 impression that he is giving an opinion that these are
19 the only causes of his chronic kidney disease, because
20 if they do that, then he is clearly opening himself up
21 to the cross of, like, Well, you don't have any idea
22 because you didn't even consider all of this stuff
23 that the jury now knows. The jury now knows more than
24 you know about PPIs and chronic kidney disease because

1 they've actually heard it and you didn't.

2 So I think we are on the same page,
3 Special Master, and maybe I am with the defendants as
4 well. I mean, sometimes with all of this briefing, as
5 you pointed out several times, we might be missing
6 each other, but that's where plaintiffs stand on Deo.

7 Thank you, Special Master.

8 THE SPECIAL MASTER: Thanks, Paul.

9 MS. RYDSTROM: I will be similarly brief,
10 Special Master.

11 I mean, from the amount of times that
12 Mr. Pennock mentioned cross-examination, I think we
13 are in heated agreement that that is the place to
14 address any deficiencies in Dr. Deo's opinion. And,
15 look, certainly if Rinder is in, he is in. There is
16 absolutely no question about that. But he comes in
17 regardless of Rinder because he actually has opinions
18 that are -- exist separate and apart from the
19 responsive agreements to Dr. Rinder, and those are, of
20 course, that hypertension, the issue or the sort of
21 disease with which he is so intimately familiar, is
22 the likely cause of Mr. Rieder's CKD.

23 And separately, taking on two issues that
24 Dr. -- that Dr. Rinder -- I'm sorry, the Rinder/Rieder

1 thing is really going to trip me up here, so I'll have
2 to go a little bit slow. Two issues that Dr. Rinder
3 raises in his report, Dr. Rinder says that
4 Mr. Rieder's blood pressure was well controlled,
5 right, that's obviously a very hotly contested issue
6 in the litigation. It came up when I was talking to
7 you about Dr. Fine, it comes up here. It is really
8 the key risk factor that we believe explains Dr. --
9 Mr. Rieder's development of chronic kidney disease,
10 and there is going to be a lot of discussion about
11 that.

12 THE SPECIAL MASTER: Yeah, but to go back, to go
13 back to -- and I'm glad you mentioned Dr. Fine,
14 because I think in a lot of ways this is a mirror
15 image of the argument we had on that. I mean, how --
16 how can Dr. Deo really address ultimate causation
17 without taking a potentially relevant alternative
18 cause into consideration? I think, and I think
19 similar issues, as you will remember, came up in our
20 discussion of -- of Dr. Fine. So, I mean, I think
21 these two are kind of related.

22 MS. RYDSTROM: So here is the difference. The
23 difference, Special Master, is that we don't have the
24 burden of proving causation, right. We don't ever

1 have that burden, and that burden always remains with
2 plaintiffs. And so what the cases say, and this is
3 true about the Third Circuit cases that are cited here
4 by plaintiffs with respect to Dr. Deo, all they say is
5 that once defendants, right, in a case of plaintiffs
6 who have that burden, once defendants have raised some
7 alternative cause, that the burden shifts back to
8 plaintiffs, right. And that's all those cases say.
9 There are no cases that are cited by the plaintiffs
10 here that talk about what happened when -- what
11 happens when the defense expert does or does not pass
12 an opinion on the agent at issue. And that makes
13 sense, right, because that -- that burden shifting is
14 one that is uniquely applicable to plaintiffs. And
15 the only case that we found that's cited by either
16 side that talks about our situation, right, where the
17 defense expert has an opinion that is -- that
18 specifically, and this is not a secret, right, he is
19 open about it, that specifically is not passing an
20 opinion on whether the medicine specifically caused
21 the injury in this particular case is that Burton case
22 from the -- from Wisconsin. And that case essentially
23 says it's fine for a defense expert.

24 THE SPECIAL MASTER: What is the case relying on

1 for that proposition?

2 MS. RYDSTROM: It is the Burton vs. American
3 Cyanamid case. It is cited in the papers. It is from
4 the Eastern District of Wisconsin. And, of course, I
5 expect that I'm going to hear in just a minute from
6 Mr. Pennock that -- that that is not a Third Circuit
7 case. Concededly, it is not. Wisconsin is very far
8 from the Third Circuit, I agree. But I would also
9 note that there is no cases cited by plaintiffs that
10 specifically say in our situation, right, a defendant
11 has to consider even all of the agent that's at issue
12 in the case.

13 And, of course, that makes sense for a
14 couple of reasons. One, because most defense experts
15 are going to say general causation is not there,
16 right. That's not this situation because Mr. --
17 Dr. Deo is not -- is not offering that opinion, but it
18 also is because most plaintiff experts, unlike this
19 case, right, most plaintiff experts don't try to -- to
20 avoid giving an opinion about whether or not a
21 particular agent has caused the -- the disease or the
22 injury in this case. So it's actually you could see
23 in that respect not something that might come up all
24 that often.

1 Now, here, of course, Dr. Rinder doesn't
2 himself offer that opinion, that PPIs were
3 specifically the cause. So that opinion that Dr. Deo
4 gives that it was hypertension that caused it is
5 absolutely in, whether or not Dr. Rinder ever shows up
6 at trial or not. And -- and that opinion is -- is
7 separately admissible.

8 That's the issue here. It's not purely a
9 responsive opinion, although, of course, it is, and I
10 have no doubt that Mr. Pennock at trial is going to do
11 exactly the cross-examination that he just did of
12 Dr. Deo. Well, Dr. Deo, you know, what are you doing
13 here if you are not giving an ultimate opinion. And
14 the jury may or may not weigh that as against all the
15 other information and all the other opinions that
16 Dr. Deo offers about the interplay of Mr. Rieder's
17 underlying CV disease, his longstanding hypertension,
18 and the kidney disease that he ultimately developed.

19 MR. PENNOCK: May I reply, Special Master?

20 THE SPECIAL MASTER: Sure.

21 MR. PENNOCK: First, I just want to be clear, I
22 guess I haven't been, I am not suggesting that Dr. Deo
23 has to give an ultimate opinion on his evaluation of
24 the contribution of PPIs to the disease here. He

1 could dispose of it by, as I would have expected, by
2 reviewing all of the general literature and then the
3 defense expert comes in and says, I ruled it out
4 because I don't think that it can cause chronic kidney
5 disease. So I did not have to incorporate it in my
6 analysis of the individual factors that were involved
7 in this -- this person's disease because I don't think
8 he can do it.

9 So, but, again, I will say that other than
10 that Eastern District of Wisconsin case, there is --
11 we agree, there is no case law we can find where going
12 the other way or the way that that Eastern District
13 case went, which is you can put an expert on the stand
14 to testify to what caused something without ruling in
15 everything and then ruling out those things that have
16 to be ruled out.

17 Now, I do think it is different than the
18 Fine situation. I think the Fine situation they are
19 trying to parse out this issue with Dr. Fine that I
20 think was addressed, but I don't want to start
21 restating or getting into Stephanie's argument. Thank
22 you.

23 THE SPECIAL MASTER: Okay. Thank you. I think
24 that's it on that one.

1 The next one I have is Palese,
2 P-a-l-e-s-e.

3 MS. MARTINES: Dr. Palese.

4 THE SPECIAL MASTER: Hi, Buffy.

5 MS. MARTINES: Good afternoon, Special Master.

6 This is Buffy Martines on behalf of plaintiffs, and

7 I'm going to argue the motion to exclude Dr. Palese.

8 I took Dr. Palese's deposition last
9 summer, and the truth of the matter is she is quite a
10 puzzle to me. She is not qualified to give her
11 opinions and her methodology is not reliable, so I'm
12 not sure exactly what she offers, but let me take each
13 of those piece by piece if I can.

14 She is not -- Dr. Palese is a
15 gastroenterologist. She is not a nephrologist. She
16 is not even a primary care physician for kidney
17 patients. She has no experience evaluating patients
18 with CKD to determine if PPI is a cause. During her
19 deposition she conceded to me that she often works in
20 one of these cross-functional teams where
21 nephrologists are used for -- for patients with kidney
22 disease. So I'm not exactly sure why she was selected
23 for this, other than she is a big fan of PPIs, big
24 fan.

1 The defendants response to that is you
2 don't need to be the best qualified expert to testify.
3 I agree with that. I think that's what the case law
4 says, but you've got to be kind of qualified. You
5 don't just get to pull anybody out and say, This is
6 pretty close, so we are going to put her up.

7 In support of her qualifications, the
8 defendants also say she routinely treats patients with
9 multiple comorbidities, including kidney disease, and
10 she is comfortable doing that. Again, not the
11 standard to qualify an expert. I'm glad she is
12 comfortable treating these patients. I hope they are
13 comfortable with her, but, again, that doesn't qualify
14 her to take the stand and testify as an expert in this
15 litigation.

16 Now, even if for some reason that you are
17 to determine that she is qualified, in the second
18 prong of this analysis, her opinions are not reliable.
19 And let me just kind of walk you through my experience
20 and what I gleaned from Dr. Palese during her
21 deposition.

22 Her big opinion is that Mr. Rieder's CKD
23 was preexisting to the time he took the PPIs. She
24 says that on Page 17 of her expert report. During her

1 deposition she said she knows this because she did
2 some calculations. I asked her about those
3 calculations and she couldn't tell me a whole lot
4 about -- I asked if she had documentation of the
5 calculations, and she said no, she did it on a
6 website. I asked her what website she used and she
7 didn't remember. She said she had to Google it. When
8 I pressed her on that and continued to ask her about
9 documentation or the name of the website or any detail
10 about this calculation, she told me it doesn't matter,
11 she just knows.

12 Take that a step further. The lab report
13 that she relies on to make these mystery calculations
14 don't show CKD. And earlier this afternoon in your --
15 when we were talking you mentioned in another
16 argument, you said you don't know what you don't know,
17 and I've heard you say that before, and I'd add on in
18 the case of Dr. Palese, we are never going to find
19 out. We are never going to find out what we don't
20 know. We are never going to be able to test these
21 calculations or how she got to where she got.

22 During her deposition she repeatedly
23 stated that as part of these calculations she needed
24 to use his age, Mr. Rieder's age, and she said over

1 and over again that he was 30 years old. Over and
2 over again. Finally, I pushed her on that and asked
3 her what his birth date was and asked her to do the
4 math and she conceded that he was 44. But she said
5 that mistake didn't matter either. Well, we don't
6 know if it mattered or not because we don't have the
7 calculations.

8 So I'm just not sure how reliable it is
9 and how we can possibly depend on her analysis in
10 support of this opinion. She -- you know, she says
11 that she did these calculations and that for a
12 44-year-old man the GFR shows that he has CKD. I
13 guess we are just going to have to take her word for
14 it because there is certainly no paper to back that
15 up. In fact, when plaintiffs counsel went back and
16 actually did the math with the one website she could
17 remember, not that she could confirm that she used,
18 but that she can remember, when plaintiffs counsel
19 went back and did the math, the GFR was fine.

20 So when you add all of this up, Dr. Palese
21 has no business testifying in front of a jury.

22 Now, in their brief I believe defense
23 counsel said in different pieces, Well, she briefly
24 misspoke. Well, it is just like when you switch

1 Fahrenheit to Celsius. Well, it is just like this.

2 I don't disagree that if you took any one
3 of these components and looked at them in a vacuum,
4 maybe it's just an honest mistake, maybe you just
5 briefly misspoke, maybe it is common sense, but not
6 when you take them all together. You can't look at
7 each little piece in a vacuum and say, That's okay.
8 You look at it all together.

9 And you have an expert that's not
10 qualified, she is not a nephrologist, she is not even
11 close to a nephrologist. She doesn't analyze CKD and
12 determine causation. And her methodology, she can't
13 even remember how she came to the conclusion she came
14 to. And for these reasons we would ask that she be
15 excluded, and I would like to reserve the rest of my
16 time for rebuttal.

17 THE SPECIAL MASTER: That's fine.

18 Jessica?

19 MS. RYDSTROM: Thanks, Special Master. So let
20 me tell you why Ms. Martines raised the question why
21 is she here. Let me tell you why she is here.

22 Dr. Palese is here because she is clearly
23 qualified to determine what caused Mr. Rieder's CKD.
24 She is a gastroenterologist, she is here in town at

1 Georgetown Hospital, her -- she is as terrifyingly
2 credentialed as most of the rest of these folks,
3 right. She -- she teaches at Georgetown Medical
4 School, she went to Mt. Sinai School of Medicine, did
5 an internship and a residency at Georgetown, and
6 her -- her specialty there, your Honor, and her former
7 board certification was in internal medicine, right.
8 That is exactly the type of training that she
9 received. She now specializes in gastroenterology.

10 Now, what she said and what I think I
11 heard in the briefs was that Dr. Palese is somehow not
12 qualified to know whether PPIs caused -- caused
13 Mr. Rieder's CKD, and that's not what Dr. Palese said
14 at all. What she said is that of course, as one would
15 hope any treating doctor would do, and that's one of
16 the main distinguishing characteristics of Dr. Palese
17 here, is that she is seeing patients all of the time
18 like Mr. Rieder, right, and she may not be seeing them
19 for their chronic kidney disease. That is not the
20 disease state that she is treating, but she is
21 treating them for things like what Mr. Rieder had,
22 which is GERD, right, the kinds of diseases that cause
23 people to start taking medicines like PPIs.

24 And what she said, of course, was what you

1 would expect any doctor to do, which is all patients
2 should be evaluated for all causes of their kidney
3 disease or other diseases and if she needed help in a
4 particular case or a particular consult, she would
5 bring that in.

6 THE SPECIAL MASTER: Can I stop you for a
7 minute?

8 MS. RYDSTROM: Sure.

9 THE SPECIAL MASTER: Leaving aside her
10 qualifications for a minute and, you know, I think the
11 crux of her testimony is supposed to be that his
12 chronic kidney disease was preexisting to his taking
13 Nexium. And the basis, as I'm understanding it, the
14 basis for that conclusion is a calculation, a GFR
15 calculation. And I think what I'm understanding from
16 the papers and what Ms. Martines says, no one can, as
17 we sit here today, know exactly what numbers she put
18 into that calculation, right.

19 And so if his, as I understand the
20 science, if the GFR is 60 or less, that's -- that's an
21 indicator that he has got chronic kidney disease. And
22 I guess the question I have for you is: If she puts
23 the right numbers in, you know, the -- I think
24 creatinine goes into it, I think age goes into it. I

1 don't know what else goes into it. But if she puts
2 the right numbers in, does she still come out with the
3 same conclusion?

4 MS. RYDSTROM: Well, here is what -- we know
5 what it's based on, right, we know what she put in
6 because she says it was based on the fact that his
7 creatinine was 1.4 and we know from her report that
8 she had his date of birth, right? So those are
9 inputs.

10 And Ms. Martines is right, she cannot
11 remember the website that she -- that she -- to which
12 she inputted, but what she says is that for, in her
13 experience and, right, so combining her experience and
14 with the calculations that she did, it results in an
15 eGFR of 60. And I should stop myself here --

16 THE SPECIAL MASTER: Let me stop you.

17 How does experience come into this?

18 MS. RYDSTROM: Because what she says --

19 (Indiscernible due to simultaneous
20 talking.)

21 THE SPECIAL MASTER: -- doing the calculation?

22 MS. RYDSTROM: That is the Fahrenheit to Celsius
23 is that Dr. Palese says is, Look, I see patients like
24 this and I have a sense, right, given my clinical

1 experience that when you have a creatinine of 1.4 and
2 you are roughly in, you know, a certain age group,
3 that she believes that gives you a -- that she would
4 know what someone's eGFR is.

5 But I'm going to stop right here because
6 it's not actually just Dr. Palese that says it.
7 Dr. Fine, you'll remember Ms. O'Connor put up the
8 chart, right, you'll remember Dr. Fine's chart with
9 the zigzags that she put up that show his eGFR and lo
10 and behold, right, at around the same time as we get
11 that 1.4 creatinine reading, Dr. Fine lists on his
12 chart an eGFR of 61.

13 So -- so here -- I guess I am surprised at
14 how hotly we are disputing two experts on opposing
15 sides who fundamentally come up with a very similar
16 number. And I guess what I would say is all of this
17 question, if we are talking about testability, they
18 tested it, right. The reply that was submitted to the
19 Special Master reproduced the plaintiffs' -- what the
20 plaintiffs got, the different number that they got
21 when they say they inputted into one of the websites
22 that Dr. Palese potentially used, they put in those
23 inputs and they got a different number.

24 And that, your Honor, is a

1 cross-examination. I mean, presumably that's an issue
2 for cross. They tested it. It was a testable
3 methodology, right. They attempted to recreate it and
4 they got a different number.

5 THE SPECIAL MASTER: But they don't know they
6 are using the same formula or the same calculator,
7 right?

8 MS. RYDSTROM: And presumably, Special Master,
9 that's an issue for the cross-examination as well. I
10 mean, there is a lot of stern -- wrong about this, you
11 know, this misstatement. And I read the transcript
12 and, I mean, Lord help us all, as Ms. O'Connor pointed
13 out earlier, I may have misspoken and I was talking
14 for only 20 minutes. After five hours or however many
15 hours of her deposition, Dr. Palese said, and I looked
16 at it, and she -- she didn't say it just once,
17 concededly, she said it and five pages later she fixed
18 it, right. She fixed his age and -- and counsel,
19 Ms. Martines, had the opportunity to ask her whether
20 or not that error changed her opinion, had every
21 opportunity to interrogate whether that misstatement,
22 right, what she believed at the time and whether she
23 believed he was in his 40s or whether she -- she
24 believed he was in his 30s, that -- that was the time

1 to explore those, and I believe that Ms. Martines did.

2 And so what Dr. Palese answered about the
3 work that she did, the calculations that she did,
4 whether she could remember those calculations, those
5 are all those are all potential fodder for
6 cross-examination.

7 And ultimately, when you look at it, the
8 numbers that she came out with are not all that
9 dissimilar from what Dr. Fine concludes and puts in
10 his chart.

11 MS. MARTINES: May I respond, Special Master?

12 THE SPECIAL MASTER: Yes.

13 MS. MARTINES: I wrote down a few things that
14 defense counsel said. She is clearly qualified and a
15 list of all of the great places that she went to
16 school and she worked at. At the end of the day
17 that's great. She did go to some really high-end
18 schools and worked at some great hospitals. And I'm
19 sure she is a fine gastroenterologist. She is not a
20 nephrologist. She is not qualified to determine
21 causation.

22 And by the way, on Page 17 of her report,
23 that's exactly what she tries to do, and I'm reading a
24 direct quote:

1 "In contrast, there is no evidence that
2 Nexium caused or substantially contributed to
3 Mr. Rieder's CKD."

4 That's exactly what she is trying to do in
5 this report and she is not qualified to do it.

6 Defense counsel said we know what she put
7 in the calculator. No, we don't. No, we don't. She
8 said multiple times that Mr. Rieder was 30 years old
9 when I corrected her, not when she corrected herself,
10 when I corrected her. She said, Oh, I meant 44. And
11 I said, Which number did you put in the calculator?
12 And she said, I put in 44.

13 We don't know that for sure. She
14 corrected herself. We are never going to know what
15 she put in that calculator because she didn't keep any
16 documentation of it.

17 Defense counsel said that kidney.org is
18 the website she potentially used. Again, we are never
19 going to know which one she used because she didn't
20 document it.

21 These are things that an expert in
22 litigation has to do. Maybe if we are treating
23 patients we can do things a little bit different.
24 Maybe when we are treating patients you can rely on

1 your sense of what's going on, but there are rules in
2 litigation.

3 Daubert and its progeny laid out specific
4 requirements, and I have a right to depend on that
5 those specific requirements are met when an expert
6 takes the stand. It's not a matter for
7 cross-examination. Daubert is a gatekeeping function.
8 If Dr. Palese can't meet the basic requirements to get
9 through the gate, it is not a cross-examination issue.
10 It is a she doesn't come to trial issue. She hasn't
11 met those qualifications.

12 With regard to whether or not we've been
13 able to test her hypotheses, we got as close as we
14 could without knowing the specific age she used and
15 the specific website she used, and you know what
16 happened. The results were different than what she
17 said happened. For those reasons we do believe that
18 Dr. Palese should be excluded.

19 MS. RYDSTROM: Two points, Special Master.

20 The first is of course we allow experts to
21 testify based on their clinical experience and their
22 experience treating patients all of the time. We
23 absolutely do that. Many, many an expert comes to
24 trial and testifies just as Dr. Palese did about

1 things that they have learned over their years of
2 practice.

3 And on the testability question, they
4 tested it, Special Master, they got a different result
5 and if Ms. Martines claims that she is unaware of what
6 numbers that Dr. Palese put in, well, I don't know
7 what more to give her except for her sworn testimony,
8 which she said she put in 44. Now, if Ms. Martines
9 thinks that that is not credible, then that is
10 absolutely a jury issue and something that is for a
11 jury to decide whether or not they believe Dr. Palese,
12 but Dr. Palese testified under oath as to what she put
13 into that calculation.

14 THE SPECIAL MASTER: Okay. Thank you.

15 So I think the next one that's -- that I
16 have on my list is Lamsita, L-a-m-s-i-t-a.

17 And, Tracy, are you going to be arguing
18 that?

19 MS. FINKEN: Yes. Good afternoon, Special
20 Master Reisman. It is Tracy Finken from Anapol Weiss
21 on behalf of plaintiffs.

22 THE SPECIAL MASTER: Okay. Go ahead.

23 MS. FINKEN: Okay. As far as Dr. Lamsita's
24 testimony goes, there are three specific opinions that

1 plaintiffs seek to exclude, and I'm going to go
2 through them briefly because there has been some
3 concessions that have been made on behalf of
4 AstraZeneca so I just want to make it very clear on
5 what's been conceded and versus what we are still
6 seeking to exclude.

7 You are muted. Sorry.

8 THE SPECIAL MASTER: I said that's helpful.
9 Sorry. Go ahead.

10 MS. FINKEN: So I'll just go through the three
11 one by one.

12 The very first opinion that we were
13 talking about relates to the findings of chronic
14 progressive nephropathy in the animal studies. And
15 AstraZeneca has conceded that Dr. Lamsita will not
16 offer an opinion on the pathological criteria of
17 chronic progressive nephropathy in the animal studies
18 or the significance of chronic progressive nephropathy
19 in rats to humans.

20 However, plaintiffs seek to exclude any
21 opinion by Dr. Lamsita as it relates to chronic
22 progressive nephropathy because by Dr. Lamsita's own
23 admission she is not qualified to offer such opinions.
24 She has testified that she is not an expert in kidney

1 function and not an expert in kidney function across
2 species. She has testified that she is not a
3 pathologist and she doesn't feel qualified to speak to
4 the details around the pathology relating to chronic
5 progressive nephropathy. That's on Page 109 of her
6 deposition.

7 She has testified that she is not
8 comfortable describing any of the inflammatory
9 components involved in chronic progressive nephropathy
10 in rats, and that's on Page 109.

11 She hasn't looked at any of the findings
12 under a microscope. She admits that she doesn't know
13 whether her own description of kidney findings in
14 certain studies of nephrocalcinosis are similar to
15 other types of kidney injuries.

16 She opines, though, she doesn't just
17 regurgitate the findings in the animal study reports
18 that AstraZeneca created, she takes it one step
19 further. So she finds that there's are
20 nephrocalcinosis in some of the short-term rat studies
21 but then she takes it one step further and opines that
22 that's an early precursor of chronic progressive
23 nephropathy. And she has already testified multiple
24 times that she is not qualified to give that opinion.

1 She also attempts to explain away the
2 findings of a dose-dependent increase in chronic
3 progressive nephropathy in the treated animal groups,
4 and that's on Page 117. But because she is not
5 qualified admittedly to discuss the pathological
6 findings of chronic progressive nephropathy and did
7 not actually do that, she should not be able to
8 testify as to the cause of those kidney findings in
9 the underlying clinical -- or preclinical animal study
10 reports.

11 Dr. Lamsita says that she relies on the
12 expert opinion of Dr. Sandusky. However, the Third
13 Circuit law is pretty clear that for an expert to rely
14 on the opinion of another expert, they need to be able
15 to assess the validity of those opinions and
16 Dr. Lamsita could not assess the validity of the
17 opinions of Dr. Sandusky because she is not qualified
18 to do so and she admits that.

19 Because she did not assess the validity of
20 Dr. Sandusky's opinions, it renders her methodologies
21 unreliable in accordance with Third Circuit law and
22 you can look at the citation in our papers to In Re
23 TMI litigation which supports that.

24 The second opinion that plaintiffs seek to

1 exclude in terms of Dr. Lamsita is that she is not
2 qualified to give opinions about the cost of drug
3 development generally. AstraZeneca concedes that
4 Lamsita will not testify on the cost of the
5 development of Prilosec and Nexium or PPIs, but they
6 oppose our motion to exclude her testimony as to the
7 cost of drug development generally.

8 And first, as it goes towards drug
9 development, putting the qualifications aside,
10 defendants have not provided any evidence that
11 Dr. Lamsita is qualified to give that opinion based
12 upon the preclinical work and experiences that she has
13 done. There is no evidence that she has done drug
14 development soup to nuts to give that type of opinion.

15 She admits that she could not provide an
16 opinion on the cost of drug development a long time
17 ago at the time that Nexium and Prilosec were
18 developed, and that's on Page 85 of her deposition,
19 but she says that she may, may be able to offer an
20 opinion on the cost of drug development today. That's
21 also on Page 85.

22 So putting aside her qualifications to
23 give the opinion of the cost of drug development today
24 based upon a single trade publication article, it's

1 critical to recognize as a practical matter that the
2 cost of drug development today is not relevant to any
3 issue in this case whatsoever.

4 So besides the lack of qualifications,
5 there is a lack of fit. And her opinion on this issue
6 as to the cost of drug development today should be
7 excluded.

8 And then just going to the third point,
9 and that's about Dr. Lamsita's testimony as to whether
10 Nexium or Prilosec will be approved by the FDA today,
11 defendants concede that -- that Dr. Lamsita would not
12 offer an opinion on whether Nexium or Prilosec would
13 be approved by the FDA today but only offer an opinion
14 as to whether the nonclinical studies would likely
15 result in approval today. That's directly from their
16 brief at Page 36.

17 And this is misleading for a couple of
18 reasons. One, Dr. Lamsita admits that when you seek
19 approval for a drug and drug development, I think
20 everybody on this call would probably concede this,
21 that there are multiple factors that the FDA considers
22 in approving a drug, only one of which is preclinical
23 studies. The clinical studies in humans, you know,
24 Phase 1 through 4 studies are all highly relevant to

1 that inquiry. And Dr. Lamsita has testified on
2 Page 144 of her deposition that the clinical studies
3 are a really bigger part of the drug approval process
4 than the preclinical studies. And then she says that
5 she didn't review the clinical studies in this case
6 and she can't offer an opinion about the clinical
7 data.

8 So any opinion by Dr. Lamsita regarding
9 whether these drugs would or would not be approved
10 today based on preclinical studies is misleading to
11 the jury.

12 THE SPECIAL MASTER: Would you agree that she
13 could give opinions about the adequacy of the
14 preclinical studies for FDA consideration? I guess
15 what I'm saying is maybe even if she couldn't go to
16 the ultimate decision, Oh, yes, it would have been
17 approved, it seems like with her qualifications, could
18 she not say I've looked at these preclinical studies
19 and at least that portion of it would be fine -- found
20 adequate?

21 MS. FINKEN: I think that there are opinions
22 that Dr. Lamsita gives in her report that are
23 appropriate for her area of expertise that we can
24 cross-examine her at trial on relating to, you know,

1 good laboratory practices and things of that nature,
2 the process generally of submitting preclinical
3 studies to the FDA, you know, whether or not these --
4 these clinical studies complied with the laboratory
5 practices or not.

6 But Dr. Lamsita should not be able to
7 testify that the drugs would be approved based upon
8 the preclinical studies that she reviewed because the
9 FDA can't approve a drug based on preclinical studies.
10 They would not, they could not, they cannot do it.
11 They have to evaluate the entire package, including
12 the clinical studies which Dr. Lamsita has not
13 evaluated and she has admitted as much during her
14 deposition. And that's on Page 144 of her deposition
15 testimony.

16 And with that, Special Master Reisman, I
17 will -- I will turn over the floor to Ms. Althoff and
18 save any other time for rebuttal. Thank you.

19 THE SPECIAL MASTER: Thanks.

20 Hi, Katherine.

21 MS. ALTHOFF: Hi, Special Master. Yes, I'm
22 going to respond on Dr. Lamsita.

23 Again, Katherine Althoff on behalf of
24 AstraZeneca. I'm going to take these in reverse order

1 because I think it goes from the simplest to perhaps
2 the most complex issue.

3 Dr. Lamsita said in her deposition, I'm
4 not testifying regarding any clinical data.

5 Dr. Lamsita is a toxicologist. She has years of
6 experience at FDA, in industry, and consulting, in
7 which she worked on helping companies get their drugs
8 approved to put on the market. She only works with
9 animal studies. This is what she does.

10 And taken into context, that's exactly
11 what she is saying here is that the nonclinical
12 studies would have been sufficient to have these drugs
13 approved, not that everything, the entire package
14 would have been approved, but purely that the
15 nonclinical program was sufficient and appropriate.
16 So I think we agree on that, so I'm not sure --

17 THE SPECIAL MASTER: I'm going to make a bold
18 statement, I think you are kind of in agreement on
19 that.

20 MS. ALTHOFF: Yeah, I think so too, and so I'm
21 not sure why, based on your our agreement, that we are
22 having this argument today. But in any event, I think
23 she can testify to the level that she wants to testify
24 to on that issue.

1 Secondly, with regard to the drug
2 development costs, I think this one is also pretty
3 simple. Again, Dr. Lamsita, this is what she has done
4 throughout her entire experience is work as part of a
5 team in helping to get drugs approved. She said she
6 had not reviewed any documents that specifically
7 addressed how much Omeprazole costs to get to market
8 nor how much Esomeprazole, that being Prilosec and
9 Nexium, costs to get to market, and so she has no
10 intention of testifying as to those precise numbers.

11 But in terms of a general opinion, if
12 asked, about how long does it take to get a drug to
13 market and what does it cost, I think, you know, based
14 on her years of experience on a variety of compounds,
15 she has got the qualifications and the expertise and
16 background knowledge to testify to that.

17 THE SPECIAL MASTER: Can I ask you a question
18 about that?

19 I mean, she is a toxicologist, right? I
20 mean, how -- I'm -- how does she know what it costs?
21 I mean, she is not like in the finance group, has she
22 worked for companies? I mean, how does she get that
23 knowledge? And I think she was a toxicologist at FDA,
24 right?

1 MS. ALTHOFF: Yes. She was a toxicologist at
2 FDA for a few years, she has also worked in industry
3 and she has also worked as a consultant. And so she
4 is part of a team. She understands how long it takes
5 and generally what it costs.

6 Again, this is -- she is not going to come
7 in as some kind of an economist or something like
8 that, but I think at the level in which she would be
9 asked and at the level that she discusses it in her
10 report, I think she is qualified and got the
11 experience and background knowledge to testify to
12 that.

13 THE SPECIAL MASTER: All right. And so the
14 remaining thing I think is the CPN?

15 MS. ALTHOFF: Yes, chronic progressive
16 nephropathy. Again, I think to some extent we are
17 talking past each other, and as I think you mentioned
18 in one of the arguments earlier today. She is a
19 toxicologist, she is not a pathologist, and so when
20 she would work at FDA, she would review pathology
21 reports, as she did in this case, she would review
22 nonclinical study reports, as she did in this case,
23 and if she had a specific question about the
24 pathology, she would go talk to one of the FDA

1 pathologists.

2 That's not really what she is doing here.

3 I mean, she is reviewing the study report, she sees
4 what's reported, she has familiarity, as she testified
5 in her deposition, I think it was Page 176, that from
6 her work at FDA she is familiar with chronic
7 progressive nephropathy, not as pathological
8 criterion, as we've conceded she is not going to
9 testify to, but to the determination that that's in
10 fact something that happens in rodents, she is aware
11 of it and she has seen it before.

12 And so I think to the extent she is
13 testifying about chronic progressive nephropathy, she
14 doesn't plan to step on top of Dr. Sandusky who is an
15 animal pathologist. She is going to testify with
16 regard to what was seen and to the extent that
17 AstraZeneca provided that information to the FDA.
18 Again, I think we are talking past each other here.

19 THE SPECIAL MASTER: Tracy, do you want to
20 respond?

21 MS. FINKEN: If I could, please, just very
22 briefly.

23 Dr. Lamsita does not just regurgitate what
24 the animal clinical study reports say about chronic

1 progressive neuropathy. That's not what she does.
2 She does that. But she also takes it one step further
3 and she attributes what the cause is of certain kidney
4 findings in the animal studies. While admitting in
5 the same breath that she's -- while she has heard of
6 CPN, or chronic progressive nephropathy, she is not
7 qualified to opine about it but yet that's exactly
8 what she does in her report.

9 And you can see that on Page 114 to 115 of
10 her report and 117 of her report where she talks about
11 different kidney findings that she observed in some of
12 the animal studies and this then she opines that those
13 are evidence of early precursors of chronic
14 progressive nephropathy, or CPN, which is the -- a
15 pathological finding.

16 And yet she admits throughout her
17 deposition that she is not qualified to evaluate the
18 pathological findings of chronic progressive
19 nephropathy nor did she evaluate them and she is not
20 comfortable giving opinions about that. But that's --
21 you know, what she says in her deposition and what she
22 actually does in her report in terms of making those
23 leaps of just not regurgitating what's in the study
24 reports but actually attributing cause to certain

1 findings are two different things, and she is -- she
2 is simply not qualified to be able to give those types
3 of opinions.

4 So plaintiffs seek to exclude any
5 testimony by Dr. Lamsita about chronic progressive
6 nephropathy because by her own admission she is not
7 qualified to address that.

8 MS. ALTHOFF: May I speak just very briefly,
9 Special Master?

10 THE SPECIAL MASTER: Go ahead.

11 MS. ALTHOFF: The problem with that is they
12 don't disagree that she is qualified to analyze the
13 reports and determine the adequacy of the preclinical
14 study program. And in the preclinical study program
15 AstraZeneca's own investigators identified chronic
16 progressive nephropathy. So you leave us in a strange
17 position if you say she can't utter the words "chronic
18 progressive nephropathy" because it's in the study
19 reports and she is familiar with it, she is familiar
20 with that condition from having worked at -- at FDA,
21 and if she had questions about it there, she would do
22 the same thing that she did here, which is talk to a
23 pathologist.

24 THE SPECIAL MASTER: Okay. Thank you.

1 MS. FINKEN: Can I just make one point, Special
2 Master, in response to that?

3 THE SPECIAL MASTER: Oh, sure.

4 MS. FINKEN: She is not familiar with chronic
5 progressive nephropathy. She says she has heard of
6 chronic progressive nephropathy. That's a big
7 difference and that's what she states in her
8 deposition testimony. And hearing of chronic
9 progressive nephropathy does not render you qualified
10 to be able to evaluate findings of kidney toxicity and
11 determine that they are chronic progressive
12 nephropathy or attributed to chronic progressive
13 nephropathy, and that's exactly what Dr. Lamsita
14 attempts to do in her report if you look at it
15 critically. Thank you.

16 THE SPECIAL MASTER: Okay. Thank you both.

17 Okay. So the last one that we have is
18 Andrea Leonard-Segal, an FDA expert. I believe that
19 this -- this expert is just as to Takeda. Am I
20 correct about that?

21 MS. MARTINES: That's correct, Special Master.

22 THE SPECIAL MASTER: Okay.

23 MS. MARTINES: Actually, I have kind of a dual
24 motion. There is a motion to disqualify and then

1 there is one to limit her testimony.

2 THE SPECIAL MASTER: Yeah, I'd like to take up
3 the motion to disqualify first, if we can.

4 MS. MARTINES: Of course.

5 THE SPECIAL MASTER: Okay. Let's do that.

6 Can you identify yourself?

7 MS. MARTINES: Okay. Yes, ma'am. Buffy
8 Martines on behalf of plaintiffs on their motion to
9 disqualify Dr. Andrea Leonard-Segal.

10 Special Master, to make a long story short
11 on this one, in the interests of time, I know you've
12 read all of the papers, the fundamental issue is that
13 this expert was a long-time employee of the FDA who
14 now purports to be an expert on the very matters that
15 she worked on at the FDA. And under Federal law that
16 is prohibited under the code section that we have
17 cited, and I believe it's 18 USC 207.

18 THE SPECIAL MASTER: Buffy, can I stop you there
19 for a minute?

20 MS. MARTINES: Of course.

21 THE SPECIAL MASTER: That's a criminal statute,
22 correct?

23 MS. MARTINES: Yes, ma'am.

24 THE SPECIAL MASTER: And I guess the question,

1 the fundamental question that I had when I was reading
2 through all of these materials is where is the
3 authority to use that statute to exclude an expert in
4 a civil case? In other words, I mean, they might be
5 running afoul of a criminal statute by testifying and
6 not something most people would want to do, but where
7 do you get the authority from that statute that you
8 can exclude in evidence -- disqualify an expert from a
9 civil case?

10 MS. MARTINES: I believe the case that we cite
11 you to is US v. Coleman, which is a Third Circuit case
12 from 1986, 805 F.2d 474. And in that case they talk
13 about the fact that these revisions, these provisions
14 and then revisions to the provisions that Congress
15 made are used in order to vent even the appearance of
16 impropriety in these types of matters, that a former
17 public official cannot use their position for private
18 gain, personal or private gain. And then we also cite
19 a couple of other cases within that same section of
20 our brief.

21 THE SPECIAL MASTER: Yeah. We looked at them.
22 I guess I didn't think, and I'll go back and look
23 again after we have this argument, I didn't think any
24 of them were exactly right on point here, and maybe

1 this is sort of a first impression issue. I don't
2 know.

3 MS. MARTINES: And that could be. There is a
4 grouping of cases that we cite that go to this. And I
5 don't know if they are -- you know, if they are just
6 absolutely on point, but they certainly go to the
7 proposition that this statute -- in this statute
8 Congress forbids the exact kind of testimony that's
9 going to happen here or that's anticipated.

10 Dr. Leonard-Segal, as I said, from 2002 to
11 2013 worked for the FDA and was involved in -- with
12 PPIs, including the FDA's approval of Prilosec OTC, of
13 the OTC version of Prevacid, she oversaw labeling,
14 adequacy of the warnings, label changes, on each
15 product she considered renal failure as a risk, she
16 reviewed the safety and efficacy of those products,
17 she considered the adverse events, and she gave
18 opinions on all of those matters with regard to both
19 Prilosec OTC and the Prevacid OTC version.

20 She also oversaw the Prevacid switch from
21 Rx to OTC versions. She discussed efficacy and safety
22 on that product as well, part of the labeling.

23 Importantly, with regard to Prevacid,
24 which is the product we are talking about here, during

1 her testimony in her deposition, she discussed the
2 fact that as part of the Prevacid switch she did a
3 comprehensive -- the FDA did a comprehensive review of
4 all safety data and that that included Prevacid and,
5 in fact, all of the PPIs. So she was involved -- I
6 know that there is going to be an argument that, Oh,
7 she was just involved on the OTC side and that makes
8 it a lot different. I'm going to talk to you about
9 why OTCs aren't different, which is a whole another
10 issue, but the fact of the matter is that during the
11 course of this work she did review Rx information, she
12 did review safety and efficacy labeling issues,
13 adverse event reports, and those were comprehensive
14 reviews. And that is the very specific subject matter
15 that she is it going to try to talk about in this
16 litigation and that is the specific type of testimony
17 that the statutes preclude.

18 THE SPECIAL MASTER: Have you made any effort to
19 contact FDA or the Department of Justice or anybody
20 and see if they are complaining about this?

21 MS. MARTINES: I have not done that personally,
22 and I would -- I do not -- I am not aware that the USC
23 has done that either.

24 Again -- oh, go ahead.

1 THE SPECIAL MASTER: Well, because as I read the
2 statute and some of the cases, they are the ones who
3 have the gripe about this, right, if she is out there,
4 you know, doing -- engaging in this conduct, aren't
5 they the ones who really have standing to complain?

6 MS. MARTINES: Well, I think they certainly -- I
7 mean, obviously they certainly have standing to
8 complain. I think plaintiffs also have the same
9 issue, because part of the reason why, and the cases
10 talk about this, the reason why this statute exists is
11 to limit this kind of revolving door concept from
12 governmental work to making your living off of kind of
13 the fruits of your labor, so to speak.

14 The plaintiffs' issue is going to be that
15 Dr. Leonard-Segal is going to come in, and this is
16 included in our Daubert motion as well, she is going
17 to come in and say, I was part of the FDA, I looked at
18 this stuff, this is what the FDA decided, everything
19 is great, fine and wonderful, let's go drink coffee.
20 And that is the exact type of testimony that this --
21 these code sections and the cases talk about is
22 improper. And it leaves the jury with the opinion
23 that it is almost the FDA that's in there saying it
24 because this woman, this doctor has been doing this

1 all of this time and she is going to rely on her
2 experiences in the FDA. And the supposition, what the
3 jury is going to be left with is, Oh, well, the FDA is
4 in here telling us that everything is fine.

5 And in our Daubert motion we discuss the
6 fact that she is relying strictly on what the FDA says
7 about this drug. She hasn't done any of her own work
8 on it. She is just going with all of that. And
9 that's the exact kind of testimony that -- that the
10 code sections and the cases discuss is improper.

11 The other item I would want to pick up,
12 and then I'll reserve the rest of my time for
13 rebuttal, is in Takeda's briefing they discuss the
14 fact that Takeda is off the hook, so to speak, because
15 it was actually Novartis that was applying for all of
16 these -- for the OTC version of Prevacid and those
17 types of things, and I just want to remind the Special
18 Master that the code sections and the cases discuss
19 that it doesn't have to be the exact party that --
20 that it's -- there is no identity of parties
21 necessary. This isn't some kind of gotcha regulation
22 where if you can sneak by because it is a different
23 name, you are okay.

24 The fact of the matter is that when the

1 applications for the Prevacid OTC products were being
2 put in, yes, Novartis was the representative on behalf
3 Takeda and Takeda was actually listed as the supplier
4 and manufacturer. So there is no escaping this issue
5 simply by saying, Well, we weren't the ones that
6 specifically were involved with Prevacid OTC
7 application. They were certainly involved, and the
8 statute defines them as any other person that was
9 participating. So that is not a means of escape, so
10 to speak.

11 And with that, I will reserve the rest of
12 my time for rebuttal.

13 THE SPECIAL MASTER: Okay. Thanks, Buffy.

14 Hi, Mike.

15 MR. RUTTINGER: Good afternoon again. Just for
16 the record, this is Mike Ruttinger on behalf of
17 Takeda.

18 Just to clarify, are we going to argue the
19 Daubert issues separate to Dr. Leonard-Segal following
20 this or do you want me to address those as well?

21 THE SPECIAL MASTER: I think we are going to
22 argue them separately. I don't think -- Buffy, I
23 don't think you argued all of your Daubert issues, did
24 you?

1 MS. MARTINES: I did not. I think it is a very
2 short argument on Daubert, but we can certainly
3 separate them up.

4 THE SPECIAL MASTER: Let's do it separate.

5 MR. RUTTINGER: Perfect.

6 So focusing on the disqualification
7 issues, Special Master, you hit the nail on the head
8 here. This is a really unprecedented argument for
9 plaintiff to make, to request a disqualifying Takeda's
10 regulatory expert based on an assertion that she has
11 committed a crime when it is undisputed that there has
12 been no charge or pending proceedings or even a
13 request by plaintiff to the FDA to look into this.

14 If you look at the cases plaintiff cites,
15 there are some that come up in the context of a motion
16 to permit expert testimony under the exception that's
17 built into the statute when the regulation applies,
18 but we think that this case is a different one because
19 the regulation, Section 207(a)(1) doesn't apply in the
20 first place. So plaintiff hasn't identified any other
21 case quite like this one where a court has
22 disqualified a former FDA expert from testifying just
23 based on her experience regulating what we believe are
24 different drug products.

1 THE SPECIAL MASTER: Okay. Can I stop you for a
2 minute there.

3 MR. RUTTINGER: Of course.

4 THE SPECIAL MASTER: You say that it doesn't
5 apply, and I think you are going to talk about why you
6 think that, right, but if it did apply, you would have
7 to -- she would have to go seek permission under that
8 regulation, correct, from FDA or from the court?

9 MR. RUTTINGER: Correct. The regulation
10 exception built into the statute specifies that if
11 those initial three criteria that are required for a
12 finding disqualification under the statute apply, then
13 there is an obligation to affirmatively seek
14 permission from the court to testify.

15 THE SPECIAL MASTER: Yeah, from the court, you
16 are right. And to be clear, you have not done that,
17 right?

18 MR. RUTTINGER: That is correct, yes.

19 THE SPECIAL MASTER: She has not done that,
20 okay.

21 MR. RUTTINGER: Now, we don't think that you
22 need to get into the question of whether or not this
23 statute can apply to disqualification when raised by a
24 plaintiff, in the first place, because, as I've

1 alluded to, we don't think that plaintiff has
2 identified that they can prevail under any of these
3 three requirements for the statute to apply. And to
4 be clear, the statute requires proof as to -- or I
5 suppose to persuade the court that it applies as to
6 all three of those elements.

7 So I do want to address one item quickly
8 from plaintiffs' briefs that I believe to be a
9 misrepresentation before we get into those three
10 elements, and that's this repetition in both their
11 motion and their reply brief that Dr. Leonard-Segal
12 admitted she couldn't represent Takeda before the FDA.

13 If you actually look at her testimony, and
14 it is even quoted in plaintiffs' brief, she says she
15 couldn't represent Takeda before the FDA on the same
16 matter on which she worked at the FDA. As I go
17 through those elements, one of which is the particular
18 matter requirement, I think you'll understand our
19 position as to why we don't believe that her testimony
20 there is at all inconsistent with the statute because
21 it is not the same particular matter.

22 THE SPECIAL MASTER: This is the argument that
23 she worked on OTC, not on -- not on prescription?

24 MR. RUTTINGER: In part, yes, that's correct.

1 So I think it makes sense to start with
2 that particular matter issue, and so the first
3 requirement under the statute is that, you know, the
4 United States must be a party or have a direct and
5 substantial interest in the particular matter at
6 issue.

7 Well, the United States was not a party,
8 so let's think about what does direct and substantial
9 interest in a particular matter at issue mean. And
10 there are two components to that, right. So the
11 regulations here interpreting the Ethics in Government
12 Act, the 2641.201, it confirms the United States is
13 neither party to nor does it have any direct and
14 substantial interest in a particular matter, merely
15 because a Federal statute is at issue or the Federal
16 Court is serving as a forum for resolution of the
17 matter.

18 So our position is that the United States
19 doesn't have a direct and substantial interest for
20 purposes of this statute just by virtue of the fact
21 that this is litigation involving, you know, failure
22 to warn claims, particularly when it's brought by a
23 private entity and not by a governmental entity.

24 It's also worth noting, I think, and

1 Special Master, you raise this question of, you know,
2 what's sort of enforcement provision for the Ethics in
3 Government Act. Well, that regulation,
4 2641.201(j)(2), actually sets for a procedure for an
5 agency to follow when it is unclear whether or not the
6 agency has a direct and substantial interest in a
7 matter. And it states forth a process by which there
8 is actually a government procedure and a little bit of
9 a hearing process to determine is this an issue in
10 which the government has a direct and substantial
11 interest.

12 So the fact that there is no pending
13 proceeding here suggests to me that that first
14 element, the direct and substantial interest test,
15 can't be satisfied.

16 THE SPECIAL MASTER: Hold on. Who would be
17 bringing such a procedure? The FDA, right?

18 MR. RUTTINGER: So it could also be brought
19 by -- actually, if you'll bear with me for a moment,
20 2046 -- 2641.201(j) specifies that the proceeding must
21 be brought by, one moment here, coordination by
22 designated agency ethics officials.

23 So the ethics department has designated
24 ethics officials for the former employees's agency, so

1 the FDA has these officials, who have the primary
2 responsibility for coordinating the determination of
3 whether a substantial interest is at issue. So it
4 would be brought by the FDA counsel.

5 THE SPECIAL MASTER: Yeah, stop for a moment.

6 So they would have to know that she was
7 intending to give such testimony, right, and then
8 decide if they were going to do anything about it.
9 And I guess the question I have for you is, you know,
10 has she made the FDA aware that -- that this is
11 something she is going to be doing or wants to be
12 doing?

13 MR. RUTTINGER: The record isn't clear on
14 whether there has been any correspondence with the
15 FDA, as far as I am aware, Special Master. The
16 regulations themselves are also silent as to what the
17 obligation is to provide notice to the FDA or any
18 agency and how that information is followed up upon.

19 THE SPECIAL MASTER: Yeah, but, I mean, I guess
20 just as a practical matter, how are they supposed to
21 know about it?

22 MR. RUTTINGER: Right. And the regulations are
23 silent on this, I think probably because this is, as
24 you noted, something of an unprecedented issue.

1 Now, this is also wrapped up in the
2 particular matter issue, though, and here is why I
3 don't think this has to be resolved on just the direct
4 and substantial interest. When you look at the same
5 regulations for how to define a particular matter,
6 particularly this is Paragraph (h)(2) to that
7 regulation, the FDA provides -- or sorry -- the Ethics
8 in Government Act regulations provide an example that
9 we think is quite applicable to this situation. And
10 the example they provide is one in which a former
11 government official while working at the FDA was
12 involved in promulgation of a rule applicable to a
13 category of a particular type of medical device made
14 by multiple manufacturers. And the example goes on to
15 say, If the regulation was not limited in application
16 to the particular companies already existing but it
17 is, for example, open-ended, it would not be a
18 particular matter involving specific parties.

19 So an issue of a former FDA official
20 having spent time at the FDA regulating an open-ended
21 class of a drug or medical device does not arise to
22 the level of particularity required by the act to be a
23 particular matter on which the government has a direct
24 or substantial interest.

1 So we think that under either prong, under
2 either category of that first prong of the test,
3 plaintiff cannot show that it is applicable.

4 There is also the second category, and the
5 second prong of the test is the OTC issue that
6 plaintiffs counsel alluded to. And essentially their
7 argument is premised on Dr. Leonard-Segal's
8 involvement in the over-the-counter switch of Prevacid
9 24-hour. And plaintiff has taken the position in
10 their briefs that because Prevacid 24-hour involves
11 the same active ingredient as prescription Prevacid it
12 is functionally the same matter.

13 And you heard Ms. Martines refer to
14 Dr. Leonard-Segal as having worked on the same
15 labeling and same issues as she's opining on in this
16 litigation. That is just unfortunately not true and
17 it, I think, it shows a misunderstanding of the
18 Durham-Humphrey Act under which over-the-counter drugs
19 are regulated.

20 So under the Act, the FDA actually
21 requires for an over-the-counter drug to be marketed
22 that there be meaningful differences within a
23 regulatory sense, "meaningful difference" is a term of
24 art in this context, from prescription drugs. In the

1 case of Prevacid 24-hour versus prescription Prevacid,
2 that includes different indications for use.
3 Prescription Prevacid has I believe ten different
4 indications for use versus just a couple for Prevacid
5 24-hour, different patient populations, different
6 labeling, and fundamentally different NDA numbers. So
7 they are, within all respects regulated by the FDA,
8 different drug products.

9 So Dr. Leonard-Segal's involvement with
10 prescription Prevacid is simply not the same
11 prescription drug product or not the same drug product
12 at all that she is testifying on in this litigation.

13 As to the third criteria involving
14 specific party or parties, it is not our position, as
15 Ms. Martines suggested, that the parties have to be
16 identical for purposes of whether or not the statute
17 applies. The fundamental issue here, and if you look
18 at the cases cited on Page 20 of plaintiffs' motion to
19 disqualify where they talk about cases of limited
20 expert testimony and other testimony in these cases,
21 all of these cases talk to the fundamental concern
22 underlying the statute of side switching. It is the
23 idea that former FDA official or a former government
24 official of any kind has left government employment

1 and is switching sides and offering testimony against
2 the government or against the government's interests
3 on the exact same issue. When the government isn't a
4 party here, isn't involved in private failure to warn
5 litigation and the work that she did is on a different
6 drug product than is at issue in this case, different
7 warnings and different labels than are at issue in
8 this case, the whole side switching burden simply
9 isn't met here.

10 So as a result, we don't think that either
11 the first, second or third criteria of the Ethics in
12 Government Act are satisfied here, and if even one of
13 those doesn't favor disqualification of
14 Dr. Leonard-Segal, then plaintiffs' motion should be
15 denied as a whole. They have to prevail on all three
16 of those prongs of the statute to even argue that
17 disqualification can occur, assuming in the first
18 place that this court can use a criminal Ethics in
19 Government Act statute as a basis for excluding expert
20 testimony.

21 THE SPECIAL MASTER: So a couple of other
22 questions.

23 I mean, if -- if she -- if we said okay,
24 she can testify, does that expose the court, this

1 process to any kind of risk? I mean, should the court
2 seek FDA approval, input on the question here?

3 MR. RUTTINGER: I don't -- I believe the answer
4 to that is no, Special Master. The statute itself,
5 assuming that there -- the application of these three
6 provisions is kind of a mixed question of fact and
7 law, right. So the court's determination of that
8 will, you know, in any potential appeal or something
9 of that issue, be subject to the same kind of
10 standards where it will be a, you know, an abuse of
11 discretion standard as to whether disqualification is
12 appropriate and a de novo standard as to any of the
13 legal issues underlying that. But there is no, you
14 know, sanction for the court in determining this. It
15 should be ultimately decided under the same
16 discretionary standard for admission of evidence that
17 would normally apply with the application of the
18 ethics in government issue being a legal issue that
19 the reviewing court would need to decide.

20 THE SPECIAL MASTER: And I guess I might have
21 asked this before, but maybe not clearly, I mean, are
22 you aware of whether she has ever raised this with the
23 FDA?

24 MR. RUTTINGER: I am not aware of that based on

1 the record that I have seen, but I can't speak
2 conclusively to that.

3 THE SPECIAL MASTER: Okay. All right. Because,
4 I mean, in some respects, you know, if you were right
5 about all of this, then what's the harm in going to
6 FDA and, you know, saying this is what I'm doing, I
7 just want to make sure you're okay with it?

8 MR. RUTTINGER: I guess I would say, in response
9 to that, that the harm it could extend is, it is not
10 unique to this case, it is that what plaintiff is
11 really suggesting here is, you know, an unnecessary
12 procedural obligation that doesn't have a basis in law
13 that could really quickly roll out of control.

14 A lot of the issues that Ms. Martines
15 identified as her concern for this, this notion of a
16 revolving door between the FDA and the government and
17 an expert stepping in, saying, Well, I worked at the
18 FDA and here is what the FDA would say about that, I'm
19 not sure I understand how that's really different from
20 someone like Dr. Ross coming in and offering testimony
21 when he is going to say I'm talking on my basis of
22 a -- on the basis of my experience at the FDA and the
23 imprimatur that brings.

24 Now we are not arguing that Dr. Ross is

1 disqualified under the statute. We don't believe it
2 applies here and we don't believe it applies there.
3 But you can quickly see how this might get out of
4 control.

5 THE SPECIAL MASTER: Yeah, but I think the
6 question is, here, is you say OTC and prescription are
7 very different matters. And Ms. Martines says, no,
8 they are not. You know, they are certainly a whole
9 lot closer than what most FDA experts that I've seen
10 over the years are willing to testify about based on
11 their experience. So, I mean, I think -- you know, I
12 think that's the difference. That's why it doesn't
13 apply to Dr. Ross or Dr. Mann. I think it's -- you
14 know, you've got an expert here who undoubtedly was
15 involved with the OTC products and their labeling and
16 their adverse event review at FDA and I guess the
17 question is, as you've already discussed, you don't
18 think it is the same particular matter, but, you know,
19 I can see why someone would raise that question
20 certainly.

21 Anyway, Buffy -- or Mike, do you want to
22 add anything else?

23 MR. RUTTINGER: Oh, I was just going to add a
24 single sentence there, which was, you know, I think

1 the similarities are misleading in this case because
2 ultimately this case boils down to labeling, right.
3 It boils down to failure to warn claims, at least in
4 the Bales case which is the only one in which
5 Dr. Leonard-Segal is being disclosed as an expert, and
6 the labeling issues between a prescription drug and
7 over-the-counter drug are fundamentally different
8 because they are different labels and different
9 products.

10 So I think that the dissimilarities here
11 are more pronounced when this court looks at the
12 labeling issue and that they are labels for different
13 products. That's all I have.

14 THE SPECIAL MASTER: Okay. Thanks, Mike.

15 Buffy, did you want to follow up?

16 MS. MARTINES: Yes, please. Let's start with
17 switching sides, Item No. 1.

18 Dr. Leonard-Segal is absolutely switching
19 sides. Her work at the FDA was on behalf of the
20 government, and as everyone on this call knows, the
21 process of getting a drug approved with the FDA is
22 inherently an adversarial process with the
23 manufacturer. There are negotiations, there are
24 discussions, there are all kinds of things. During

1 that process, while she worked there, she worked for
2 the government and she represented the FDA.

3 And she represented the FDA on a lot of
4 issues. One -- a couple of things I forgot -- I
5 neglected to mention. The 2011 citizens petition, a
6 very important issue, and the 2012 tracked safety
7 issue regarding PPI-induced AIN. Dr. Leonard-Segal
8 testified that she more than likely would have been
9 involved in both of those issues, which are class-wide
10 issues. She would have worked for the government
11 during that time on behalf of the FDA in opposition of
12 the manufacturers.

13 So now she has left the FDA, she has
14 switched sides, she is working for the manufacturers
15 now in a United States District Court. She testified
16 that she wouldn't be able to be in front of the FDA
17 representing Takeda. She cannot go in front of the
18 United States District Court either. The government
19 is a single entity. We've cited that in our brief.
20 The government is a single entity, whether it is the
21 FDA or the court, she can't do it. She cannot switch
22 sides, which is exactly what she is trying to do.

23 Now let's talk about OTCs. You just heard
24 the party line on prescription versus OTCs when it

1 suits the manufacturer, and this is an issue that I
2 have gotten into very deeply. You'll hear more about
3 it in the next round of cases, but these manufacturers
4 have a history, a history of marketing these drugs,
5 whether it's a prescription drug or an OTC, however
6 they want. They are interchangeable when they are
7 marketing them or when they are trying to steal
8 somebody else's market share. When studies come out
9 that say there is something wrong with PPIs, all of a
10 sudden it is a big -- whole different issue, OTCs and
11 prescriptions are completely different. When they
12 want to bring an expert to court who has worked on
13 this product who shouldn't be there, oh, all of a
14 sudden OTCs are different than prescription. It is a
15 distinction without a difference. We are talking
16 about the same type of warnings, we are talking about
17 the same injuries, we are talking about the same
18 formulation, we are talking about the same
19 manufacturers making money on these drugs, making
20 money on these drugs. It is a distinction without a
21 difference and they should not be allowed to play some
22 kind of smoke and mirror games with whether these are
23 the same products or not.

24 Dr. Leonard-Segal worked on this product,

1 this specific product while she was at the FDA. She
2 worked on OTC issues, she worked on prescription drug
3 issues, she did comprehensive evaluations, she looked
4 at the citizens petition, she looked at the track
5 safety issues. She is up to her neck in this specific
6 issue and she -- under these statutes that we are
7 citing and under the case law that we are citing, she
8 is not allowed to do that and she should be
9 disqualified.

10 Thank you.

11 MR. RUTTINGER: May I have a true 15 seconds?

12 THE SPECIAL MASTER: You may.

13 MR. RUTTINGER: Special Master, I'd encourage
14 you again to look at that CFR 2641.201(h)(2),
15 Example 5, about the former FDA official, that makes
16 clear to me that involvement in class-wide class
17 labeling and other types of issues is not involvement
18 in a particular matter within the meaning of the
19 statute.

20 THE SPECIAL MASTER: Okay. I will look at it.

21 Okay. So Daubert, did you want to -- do
22 you have more to say about that?

23 MS. MARTINES: Well, just a little bit. I
24 don't -- I don't want to belabor some of these points,

1 and the papers, this was a short motion on
2 Dr. Leonard-Segal and I know that you've already taken
3 a look at those.

4 Just very quickly, she has basically got
5 two opinions, as best I can tell, that Takeda acted
6 appropriately in its labeling and that there is no
7 causal association between PPI use and the kidney
8 injuries.

9 And I want to start by saying the doctor
10 has already conceded that she is not qualified to
11 speak about causation in her deposition testimony,
12 Page 93, lines 18 and 19, she specifically says: "I
13 don't testify as a medical -- as a medical officer
14 expert giving my opinions about causation."

15 I'm not -- it's a little bit hard for me
16 to tell in Takeda's papers, and maybe we'll get some
17 clarification on this, I think that they concede that
18 she is not qualified or she is not going to speak
19 about causation, but I'll -- I won't speak for them,
20 but she should -- she has conceded that she can't
21 speak to causation issues, that she is not testifying
22 as a medical officer or a doctor in that area.

23 So we believe at a very minimum she can
24 only testify to regulatory issues. Now, I'm not

1 waiving my argument that she shouldn't be testifying
2 at all, but for purposes of what we are talking about,
3 at a minimum limited to regulatory issues.

4 THE SPECIAL MASTER: I think there was a
5 stipulation that she is not going to offer a medical
6 causation opinion.

7 MS. MARTINES: And that may very well be true.
8 I hope so. I hope that's the case because that makes
9 things a lot cleaner.

10 With regard to the opinions that she does
11 give and her methodology and how she did that, she
12 testified that she didn't review any underlying data,
13 she has reviewed no published literature and that she
14 relies strictly on the assessment or actions of the
15 FDA and Takeda as support for her testimony.

16 In fact, she said in her testimony that
17 she is not basing her review on any nephrology
18 information and any medical evidence on anything
19 related to kidney injuries and that she is only
20 testifying with regard to certain regulatory items,
21 including the label.

22 Now, with regard to those conclusions, the
23 problem with those opinions I believe is that she --
24 they are all supported by -- only by assumptions. She

1 stated that -- she specifically stated in her
2 deposition, again, at Page 119, Lines 11 through 22,
3 that she comes to these conclusions because she
4 assumes the FDA must have seen data or had
5 discussions.

6 And you simply cannot base any kind of
7 expert opinion on assumptions and speculation that you
8 have no proof of. That's certainly not a reliable
9 methodology that -- that she can bring to court
10 under -- under the applicable Daubert standards.

11 So with that, I will -- I will reserve the
12 rest of my time for rebuttal.

13 THE SPECIAL MASTER: Thanks, Buffy.

14 Mike.

15 MR. RUTTINGER: I will keep this very short.

16 So first off, to clarify,
17 Dr. Leonard-Segal will not be offering medical
18 causation or kind of regulatory causation opinions in
19 this case. So that should make this all a little bit
20 cleaner.

21 What she is going to offer is testimony
22 based on her experience about what FDA did and what
23 various interactions between the manufacturer and the
24 FDA mean in terms of providing context for that, which

1 she can do as a former FDA official who has the
2 experience of being involved in those kinds of
3 interactions.

4 Now, what plaintiff has said is their main
5 Daubert challenge here is a criticism of the fact that
6 she didn't look at, say, some of the underlying
7 nephrology studies and data. That's information that
8 might be important if she was offering the kind of
9 regulatory causation opinion that, say, Dr. Ross is
10 offering. She is not. The opinions she is offering
11 here, they are not based on assumptions. They are
12 based on her experience at the FDA and having done
13 this kind of job and having worked with the FDA and
14 seen interactions between FDA and manufacturers and
15 being able to tell a jury, because these are
16 complicated issues after all, what it means when a
17 manufacturer submits X to the FDA and what it means
18 when the FDA reacts in such a way. We think that
19 that's all based on her experience and qualifications
20 which plaintiff here doesn't appear to be contesting,
21 and we think that that's sufficient and that there are
22 many other cases cited in our Daubert reply in which
23 the kind of regulatory testimony that she is offering
24 has been readily allowed under Rule 702.

1 THE SPECIAL MASTER: Okay. Buffy?

2 MS. MARTINES: Thank you very much for that
3 clarification. We will certainly rely on that.

4 The problem is she is going to give an
5 opinion that the label was inadequate and to do that
6 she needs to base it more on what she assumes the FDA
7 saw and what she assumes they should have discussed
8 and what she guesses would have happened. She needs
9 more than that if she is going to give an opinion on
10 whether or not the label was adequate. And her
11 testimony is that that's all she did was rely on
12 assumptions and speculations and that's simply not
13 enough for an expert opinion to be presented to the --
14 to a jury.

15 So with that I will conclude.

16 THE SPECIAL MASTER: Okay. I think we are done
17 for today, unless I missed something. I hope I
18 didn't. Thank you all very much, and we will resume
19 at 10:00 a.m. tomorrow.

20 MR. BROWN: Ellen, one quick issue. I know we
21 have a court reporter. This is Arthur Brown from
22 Arnold & Porter. I'm hoping that you can circulate
23 the rough, to the court reporter, as soon as you can.
24 I'm happy if I need to sign anything, just to shoot it

1 over to my e-mail.

2 THE SPECIAL MASTER: Juliana, or whoever is on
3 from Golkow, what's the process for that?

4 THE COURT REPORTER: I will shoot an e-mail over
5 to him.

6 MR. BROWN: Thanks, Juliana.

7 THE SPECIAL MASTER: I'll forward -- maybe we
8 can forward it around to everybody who wants it.

9 Okay. All right. Thanks everybody, very
10 good. See you tomorrow.

11 ---

12 Thereupon, at 3:33 p.m., on Monday, April
13 4, 2022, the hearing was adjourned.

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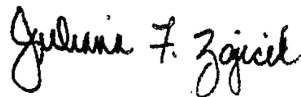
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CERTIFICATE OF OFFICER

I, JULIANA F. ZAJICEK, a Registered Professional Reporter, Certified Shorthand Reporter and Certified Realtime Reporter, do hereby certify that I reported in shorthand the proceedings had at the remote hearing aforesaid, and that the foregoing is a true, complete and correct transcript of the proceedings of said hearing as appears from my stenographic notes so taken and transcribed under my personal direction to the best of my ability.

IN WITNESS WHEREOF, I do hereunto set my hand on this 8th day of April, 2022.



JULIANA F. ZAJICEK, Certified Reporter

EXHIBIT 2

UNITED STATES DISTRICT COURT
DISTRICT OF NEW JERSEY

**IN RE: PROTON-PUMP
INHIBITOR PRODUCTS
LIABILITY LITIGATION (NO. II)**

Case No. 2:17-md-2789-CCC-MF
(MDL 2789)

This Document Relates to:

Bales v. AstraZeneca Pharmaceuticals LP,
No. 2:17-cv-06124

Foster v. AstraZeneca Pharmaceuticals LP,
No. 2:17-cv-02475

Kersch v. AstraZeneca LP,
No. 2:18-cv-03159

Lee v. AstraZeneca Pharmaceuticals LP,
No. 2:17-cv-00212

Nelson v. AstraZeneca Pharmaceuticals LP,
No. 2:17-cv-13727

Rieder v. AstraZeneca Pharmaceuticals LP,
No. 2:19-cv-00850

**JOINT REPORT TO THE SPECIAL MASTER RE *DAUBERT* MOTION
ORAL ARGUMENT**

Pursuant to section III.A of the Special Master's Amended Procedures Regarding Oral Arguments on Preemption, *Rieder* Statute of Limitations, *Daubert* Motions, and Related Summary Judgment Motions, AstraZeneca, Takeda, and Plaintiffs submit this Joint Report regarding the parties' meet-and-confer efforts to narrow the disputes raised in the parties' *Daubert* motions.

Counsel for AstraZeneca, Takeda, and Plaintiffs participated in three meet-and-confer calls and numerous emails. The first call took place on Thursday, March 17, and attendees included Stephanie O'Connor, Paul Pennock, Jonathan Sedgh, and Josh Autry (for Plaintiffs), Julie du Pont and Jake Miller (for AstraZeneca), and James Mizgala (for Takeda). The second call took place on Tuesday, March 22, and attendees included Stephanie O'Connor, Paul Pennock, and Josh Autry (for Plaintiffs), Julie du Pont and Jake Miller (for AstraZeneca), and James Mizgala (for Takeda). The third call took place on Thursday, March 24, and attendees included Stephanie O'Connor, Paul Pennock, and Josh Autry (for Plaintiffs), Julie du Pont and Jake Miller (for AstraZeneca), and James Mizgala (for Takeda). Each meet and confer session lasted approximately 25 minutes.

As a result of the parties' meet-and-confer efforts, the following agreements have been reached.

- 1) Plaintiffs agree to withdraw their motion to exclude Dr. Pinto-Martin, and AstraZeneca agrees to withdraw its motion to exclude Dr. Gerstman.
- 2) AstraZeneca and Plaintiffs agree to mutually rest on the papers with regard to AstraZeneca's motions to exclude Dr. Charytan and Dr. Mehal.
- 3) Plaintiffs and AstraZeneca agree to mutually rest on the papers with regard to Plaintiffs' motions to exclude Dr. Gibbons.
- 4) Plaintiffs and Takeda agree to mutually rest on the papers with regard to Plaintiffs' motions to exclude Dr. Hansen.
- 5) Plaintiffs and AstraZeneca agree to limit oral argument regarding Plaintiffs' motion to exclude Dr. Deo to the *Rieder* case.
- 6) To the extent Plaintiffs seek to prevent Dr. Lansita from offering an opinion on the pathological criterion or significance of chronic progressive nephropathy (CPN) to humans, AstraZeneca does not oppose Plaintiffs' motion. Plaintiffs still seek to exclude other CPN opinions by Dr. Lansita, drug cost opinions by Dr. Lansita, and any opinion by Dr. Lansita about whether PPIs would be approved by the FDA today, which AstraZeneca opposes.

- 7) To the extent Plaintiffs seek to prevent Dr. Lansita from offering an opinion on the historical cost of bringing Prilosec or Nexium to market, AstraZeneca does not oppose Plaintiffs' motion. Plaintiffs still seek to exclude other drug cost opinions by Dr. Lansita, other CPN opinions by Dr. Lansita, and any opinion by Dr. Lansita about whether PPIs would be approved by the FDA today, which AstraZeneca opposes.
- 8) To the extent Plaintiffs seek to prevent Dr. Hansen from offering an opinion on the biological plausibility of AIN developing into AKI or CKD, Takeda does not oppose Plaintiffs' motion. Plaintiffs still seek to exclude any other opinions by Dr. Hansen about biological plausibility as well as all other opinions by Dr. Hansen, which Takeda opposes.
- 9) To the extent Plaintiffs seek to prevent Dr. Leonard-Segal from offering a medical causation opinion on whether a causal association exists between PPI use and CKD, Takeda does not oppose Plaintiffs' motion. Plaintiffs still seek to exclude all other opinions by Dr. Leonard-Segal, which Takeda opposes.
- 10) To the extent AstraZeneca seeks to prevent Dr. Mehal from providing an opinion on the adequacy of the label in a regulatory

context, Plaintiffs do not oppose AstraZeneca's motion. AstraZeneca still seeks to exclude all other opinions by Dr. Mehal, which Plaintiffs oppose.

- 11) To the extent Defendants seek to prevent Dr. Wells from offering (a) an opinion that PPIs cause CKD, and (b) an opinion that his analyses establish that PPIs are harmful to the kidney, Plaintiffs do not oppose their motion. Defendants still seek to exclude Dr. Wells in all other respects, which Plaintiffs oppose.
- 12) To the extent Defendants seek to prevent Dr. Moeckel from offering an opinion that PPIs cause acute or chronic kidney disease in humans or from using animal evidence to prove general causation, Plaintiffs do not oppose their motion. Defendants still seek to exclude Dr. Moeckel in all other respects, which Plaintiffs oppose.

Dated: March 25, 2022

**UNITED STATES DISTRICT COURT
DISTRICT OF NEW JERSEY**

**IN RE: PROTON-PUMP INHIBITOR
PRODUCTS LIABILITY LITIGATION**

**2:17-MD-2789 (CCC)(LDW)
(MDL 2789)**

**This Document Relates to:
All Actions**

Judge Claire C. Cecchi

(PROPOSED) ORDER

Upon consideration of the Report and Recommendation of Special Master Ellen Reisman regarding *Daubert* Motions (“Report and Recommendation”), any objections thereto, and the entire record herein, it is this ____ day of _____, 2022:

- 1) ORDERED that the Court overrules all objections to the Report and Recommendation and adopts the Report and Recommendation in its entirety as the decision of the Court;
- 2) ORDERED, as to all six Bellwether Trial Cases, that Plaintiffs’ Omnibus *Daubert* Motion to Exclude Defense Experts be and hereby is DENIED as to the testimony of Dr. Marianne Mann;
- 3) ORDERED, as to all six Bellwether Trial Cases, that Plaintiffs’ Omnibus *Daubert* Motion to Exclude Defense Experts be and hereby is GRANTED IN PART and DENIED IN PART as to Dr. Janice Lansita, as follows:

a. The motion is GRANTED to the extent that it seeks to exclude Dr. Lansita from offering the following opinions:

- i. The pathological criterion or significance of CPN to humans (per stipulation by the Parties);
- ii. The historical cost of bringing Nexium or Prilosec to market (per stipulation by the Parties);
- iii. The cost of bringing a drug to market generally;
- iv. Whether PPIs would be approved by the FDA today;

b. The motion is otherwise DENIED, including but not limited to, as to Dr. Lansita's testimony as to the following:

- i. Her opinions concerning the nonclinical studies relating to PPIs that she reviewed; and
- ii. The sufficiency of the nonclinical studies relating to PPIs to support FDA approval;

4) ORDERED, as to all six Bellwether Trial Cases, that Plaintiffs' Omnibus *Daubert* Motion to Exclude Defense Experts be and hereby is DENIED as to the testimony of Dr. Robert Gibbons;

5) ORDERED, as to the *Rieder* and *Bales* cases, that Plaintiffs' Omnibus *Daubert* Motion to Exclude Defense Experts be and hereby is DENIED as to the testimony of Dr. Rajat Deo and that, to avoid any jury confusion, the

juries in the *Rieder* and *Bales* trials will be instructed in connection with Dr. Deo's testimony that he was not asked to and did not consider or form any opinions as to whether Plaintiff Rieder's or Plaintiff Bales's use of PPIs was a cause of either of their CKD;

6) ORDERED, as to the *Rieder* case, that Plaintiffs' Omnibus *Daubert* Motion to Exclude Defense Experts be and hereby is GRANTED as to the testimony of Dr. Caren Palese;

7) ORDERED, as to all six Bellwether Trial Cases, that Defendant AstraZeneca's Motion to Exclude Opinion Testimony from Dr. David Ross Under Federal Rule of Evidence 702 and, as to the *Bales* case, Defendant Takeda's Motion to Exclude Testimony of Dr. David Ross, be and they hereby are DENIED, except as follows;

- a. The motion is GRANTED in part to the extent that Dr. Ross shall be precluded from testifying as to FDA's level of understanding of the difference between ATIN and CTIN, except that if AstraZeneca, which elicited such testimony in Dr. Ross's deposition, opens the door by seeking to use his deposition testimony on this topic on cross-examination or to elicit it again at trial, such testimony shall be permitted;

b. The motion is GRANTED in part to the extent that any testimony by Dr. Ross about FDA staffing and resources in periods after the conclusion of his service at FDA shall not be permitted and any such testimony shall be limited to his personal experience during his tenure at FDA or upon objective evidence of such issues;

- 8) ORDERED, as to all six Bellwether Trial Cases, that Defendants AstraZeneca's and Takeda's Motions to Exclude Opinion Testimony from Dr. Martin Wells Under Federal Rule of Evidence 702 be and hereby are GRANTED to the extent they seek to exclude Dr. Wells from offering an opinion on general causation that PPIs cause CKD or are harmful to the kidneys (per stipulation by the Parties) and are DENIED if evidence of data provided to PRAC or PRAC's analysis or conclusions is introduced at trial.
- 9) ORDERED that, as to all six Bellwether Trial Cases, Defendant AstraZeneca's Motions to Exclude Opinion Testimony from Plaintiffs' General Causation Experts Under Federal Rule of Evidence 702 be and hereby are DENIED as to the testimony of Dr. David Charytan.
- 10) ORDERED that, as to the *Bales*, *Lee*, *Nelson*, *Foster*, and *Rieder* cases, Defendant AstraZeneca's Motions to Exclude Opinion Testimony from Plaintiffs' General Causation Experts Under Federal Rule of Evidence 702

be and hereby are GRANTED IN PART and DENIED IN PART as to the testimony of Dr. Wajahat Mehal, as follows:

a. The motions are GRANTED to the extent that they seek to exclude Dr. Mehal from offering the following opinions:

- i. The adequacy of labeling of PPIs (per stipulation by the Parties);
- ii. Medical marketing and its impact on sales of PPIs; and
- iii. The impact of the Montreal definition of GERD in any case where the plaintiff underwent medical testing that specifically confirmed a GERD diagnosis;

b. The motions are otherwise DENIED, including but not limited to, with respect to Dr. Mehal's general causation opinions.

11) ORDERED that, as to the *Rieder* case, Defendant AstraZeneca's Motion to Exclude Opinion Testimony from Plaintiffs' Specific Causation Experts Under Federal Rule of Evidence 702 be and hereby is DENIED as to the testimony of Dr. Derek Fine;

12) ORDERED, as to all six Bellwether Trial Cases, that Defendant AstraZeneca's Motions to Disqualify Dr. Gilbert Moeckel be and hereby are DENIED;

13) ORDERED that, as to all six Bellwether Trial Cases, Defendant AstraZeneca's Motions to Exclude Opinion Testimony from Dr. Gilbert Moeckel Under Federal Rule of Evidence 702 and, as to the *Bales* case, Defendant Takeda's Motion to Exclude Expert Testimony of Dr. Gilbert Moeckel be and they hereby are DENIED;

14) ORDERED that, as to all six Bellwether Trial Cases, to the extent the Parties have raised any arguments in their motions that are not specifically addressed in Special Master Reisman's R&R, such arguments be and hereby are rejected and the corresponding motions are DENIED to the extent that they rely on those rejected arguments.

Claire C. Checchi
United States District Judge