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15 UNITED STATES DISTRICT COURT  
16 NORTHERN DISTRICT OF CALIFORNIA

17 ALBERT J. LEON, ANISSA A. EDISON,  
18 ANNABEL THOMAS, BERT CHESTER  
FRANKLIN, BETTY GILLIAM, BILL J. STACY,  
19 BRIDGET LEWIS, BYRON GRADY, CARL  
LEGGETT, CECLE MAE JONES HAMMOND,  
20 CHARITY HOWARD, CHRISTINE SPANN,  
CHRISTOPHER GORDON, CHRISTOPHER J.  
21 DEL VAL, CLIFFORD MILLS, COURTNEY M.  
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22 DON F. LETT AND LINDA R. LETT, DONALD  
LEE HICKS, DOUGLAS M. WOLF, EARL  
23 SUMMERS, FLOYD MEEKS, FRANCISCO  
MENDEZ, FRED A. DIXON, GABRIEL  
24 RODRIGUEZ, GERALDINE BOLDEN, GLENDA  
ANN SHELBY, GREGORY OLIVER, JAMES  
25 ABBOTT JR., JAMES POLLARD, JEFFREY  
MEDLEY, JEFFREY THOMAS VON-SCHMIDT,  
26 JERIC CRAVEN, JERMAINE BALL, JERRON  
KNOX, JESSE C. BURNS JR., JOHN LEE  
27 EDWARD MAUCK, JOSIE M. ROPER, KEVIN  
LOVE, LENETTA TURNBOW-BOLDEN, LINDA  
28 TEAGUE THORNTON, LONNIE C. CARR,

No. \_\_\_\_\_

**COMPLAINT FOR DAMAGES**

JURY TRIAL DEMANDED

1 MARCUS CRUMBLE, MARION L. PARKER,  
2 MICHAEL AIKINS, MICHAEL NIECE-JACOBY,  
3 MICHAEL RAY ROBERTS, NORMAN G.  
4 GRANT, PAMELA FRANKLIN, PATRICK S.  
5 CUSAC, PEARLIE WILLIAMS, PREZ JOHNSON  
6 SR., RAYMON LOPEZ, REBECCA LUTZ,  
7 REMARRO BRANCH, RHODA V. LONG,  
8 ROBERT E. LYNN, RODNEY PETERS,  
9 RONALD MATTHEWS, RONALD SMITH,  
10 RONALD E. WILLIAMS JR., ROY GARNER,  
11 SAUNDRA SMITH, SHANNON WILLIAMS,  
12 TAMMY SLAUGHTER, TANGALAR  
13 ARMSTRONG, THERESA BALDWIN,  
14 TIMOTHY BRADFORD, TONEY RAY CLARK,  
15 TONY JERRY, VALERIE HOLLIDAY, WILLIE  
16 SCOTT JR.,

Plaintiffs,

v.

GILEAD SCIENCES, INC.,

Defendant.

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1 Plaintiffs bring this civil action for damages against Defendant Gilead Sciences, Inc. (“Gilead”  
2 or “Defendant”). Based on the investigation of counsel, Plaintiffs allege on information and belief as  
3 follows:

4 **I. NATURE OF THE ACTION**

5 1. This action arises out of injuries Plaintiffs sustained as a result of ingesting one or more  
6 of the prescription drugs Viread, Truvada, Atripla, Complera, and Stribild, which are manufactured  
7 and marketed by Gilead for the treatment of Human Immunodeficiency Virus-1 (“HIV”) infection.<sup>1</sup>

8 2. Gilead designed each of the drugs to contain a form of the compound tenofovir that  
9 Gilead knew was toxic to patients’ kidneys and bones. Tenofovir is a nucleotide analogue reverse  
10 transcriptase inhibitor (“NRTI”), one of the classes of antiretroviral drugs used to treat HIV. NRTIs  
11 work by blocking an enzyme HIV needs to replicate. Gilead did not discover tenofovir. Scientists in  
12 Europe discovered tenofovir in the 1980s, and though the anti-HIV properties of tenofovir were  
13 promising, it had a downside: it cannot not be administered effectively by mouth.

14 3. Because an intravenous tenofovir formulation had little sales potential, Gilead  
15 developed a form of tenofovir, tenofovir disoproxil, which can be taken orally.<sup>2</sup> The fumaric acid salt  
16 of tenofovir disoproxil is tenofovir disoproxil fumarate (“TDF”). When a patient takes a pill containing  
17 TDF, the patient’s body converts TDF into tenofovir. Although TDF can be taken by mouth, a high  
18 dose of 300 mg is typically required to achieve the desired therapeutic effect.

19 4. Gilead designed TDF 300 mg to be an active ingredient in five drugs that are approved  
20 to treat HIV: Viread (TDF 300 mg tablets), approved October 26, 2001; Truvada (TDF 300  
21 mg/emtricitabine 200 mg tablets), approved August 2, 2004; Atripla (TDF 300 mg/emtricitabine 200  
22 mg/efavirenz 600 mg tablets), approved July 12, 2006; Complera (TDF 300 mg/emtricitabine 200  
23 mg/rilpivirine 25 mg tablets), approved August 10, 2011; and Stribild (TDF 300 mg/emtricitabine 200  
24

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25 <sup>1</sup> Viread is also indicated to treat Hepatitis B. And Truvada is also indicated for use in combination  
26 with safe sex practices for pre-exposure prophylaxis (PrEP) to reduce the risk of sexually acquired  
HIV-1 in adults at high risk.

27 <sup>2</sup> Tenofovir disoproxil is a prodrug form of tenofovir. Prodrugs are pharmacologically inactive  
28 compounds that can be more efficiently absorbed into the bloodstream and then converted into the  
active form of the drug within the body.

1 mg/elvitegravir 150 mg/cobicistat 150 mg tablets), approved August 27, 2012 (collectively, these are  
2 the “TDF Drugs”).

3 5. Before Gilead began selling its first TDF Drug, Viread, in 2001, Gilead knew that TDF  
4 posed a safety risk to patients’ kidneys and bones. Gilead knew that two of its other antiviral drugs  
5 with structures similar to tenofovir, cidofovir and adefovir dipivoxil, had been highly nephrotoxic (i.e.,  
6 toxic to kidneys) and that preclinical data for TDF showed that it could cause significant kidney and  
7 bone damage. Gilead also knew that the relatively high dose of TDF created a greater risk of toxic  
8 effects, and that bone and kidney toxicities were even more likely to be seen with long-term use of  
9 TDF for the treatment of a virus that, for the foreseeable future, has no cure.

10 6. Gilead’s knowledge of the toxic effects of TDF only grew as patients began treatment  
11 with and were injured by each successive TDF product. By the time Gilead designed Stribild, it had  
12 ten years’ worth of cumulative evidence that TDF injured patients’ kidneys and bones.

13 7. Gilead also knew, before it obtained approval to market Viread and Gilead’s subsequent  
14 TDF Drugs, that it had discovered a safer tenofovir prodrug, tenofovir alafenamide fumarate (“TAF”).  
15 TAF is absorbed into the cells HIV targets much more efficiently than TDF. As a result, TAF can be  
16 administered at a dramatically reduced dose compared to TDF, but still achieve the same or higher  
17 concentrations of active tenofovir in the target cells. Because TAF can be administered at a much lower  
18 dose than TDF, its use is associated with less toxicity and fewer side effects. A 25 mg dose of TAF  
19 achieves the same therapeutic effect as a 300 mg dose of TDF, with a better safety profile. Despite  
20 knowing that TAF could be given at a much lower, safer dose, Gilead designed Viread, Truvada,  
21 Atripla, Complera, and Stribild to contain TDF rather than safer TAF.

22 8. Falsely claiming that TAF was not different enough from TDF, Gilead abruptly shelved  
23 its TAF design in 2004. However, as John Milligan, Gilead’s President and Chief Executive Officer,  
24 later admitted to investment analysts, the real reason Gilead abandoned the TAF design was that TAF  
25 was *too different* from TDF. Once Gilead’s first TDF product, Viread, was on the market, Gilead did  
26 not want to hurt TDF sales by admitting that its TDF-based products are unreasonably and  
27 unnecessarily unsafe.

1           9.       It was crucial at that time for Gilead to increase Viread sales, which comprised 53% of  
2 Gilead’s total product sales in 2002, and 68% of Gilead’s total product sales in 2003. Gilead was so  
3 desperate to expand Viread sales that when promoting the drug to doctors, it called Viread a “miracle  
4 drug” with “no toxicities.” Gilead did not tell doctors the facts: that Viread posed significant risks to  
5 patients’ kidneys and bones.

6           10.       In addition, Gilead knew that by withholding the safer TAF design, it could extend the  
7 longevity of its HIV drug franchise and make billions two times over: first, with TDF medications  
8 until TDF patent expiration, which would begin by no later than 2018, and second, with TAF  
9 medications until TAF patent expiration as late as 2032. Only once Gilead realized billions in sales  
10 through most of the TDF patent life did it seek to market safer TAF-based versions of its HIV  
11 medications.

12           11.       Finally, in 2015, Gilead began selling the first of its TAF-designed medicines and  
13 convinced doctors to switch their patients from TDF-based to TAF-based regimens by demonstrating  
14 TAF’s superior safety profile over TDF with respect to kidney and bone toxicity—the very benefits  
15 that Gilead could have and should have incorporated into its prior product designs but withheld from  
16 doctors and patients for over a decade.

17           12.       Gilead also made Stribild even more dangerous to Plaintiffs when it designed the drug  
18 to include cobicistat in combination with 300 mg TDF. Cobicistat is a pharmacoenhancer or “booster”  
19 that inhibits the breakdown of elvitegravir, another active ingredient in Stribild. Cobicistat allows  
20 elvitegravir to persist in the patient’s system long enough to permit once-daily dosing.

21           13.       Gilead knew years before it developed Stribild that: (a) higher tenofovir concentrations  
22 in patients’ blood, as opposed to the target cells, endangers the kidneys; (b) tenofovir concentrations  
23 in patients’ blood increase significantly when patients take tenofovir with a booster; and (c) TDF-  
24 associated renal toxicity occurs more frequently in patients taking TDF as part of a boosted regimen.

25           14.       When Gilead developed its first TAF-based antiviral product, Genvoya—which is  
26 Stribild with TAF in place of TDF—Gilead reduced the dose of TAF from 25 mg to 10 mg to account  
27 for the fact that cobicistat significantly increases tenofovir concentrations. Gilead knew to reduce the  
28 dose of TAF in Genvoya before it submitted Stribild to the FDA for marketing approval. Despite this



1 knowledge, Gilead did not reduce the dose of TDF when it designed Stribild. Stribild is even more  
2 toxic to patients' kidneys and bones than Gilead's other TDF-based products.

3 15. In addition to withholding safer designs, Gilead failed to adequately warn physicians  
4 and patients about the risks and safe use of TDF. Gilead provided only the weakest, inadequate  
5 warnings to doctors and patients about the need for frequent monitoring of all patients for TDF-  
6 associated kidney and bone damage—preventing doctors from detecting early signs of TDF toxicity.

7 16. Gilead provides stronger monitoring warnings to physicians and patients in the  
8 European Union (EU) than it does in the United States for the exact same TDF products. Contrary to  
9 its U.S. labeling, Gilead has consistently recommended, since the approval of its first TDF Drug in the  
10 EU, that doctors in the EU monitor all TDF Drug patients for multiple markers of TDF toxicity on a  
11 frequent, specified schedule. There is no scientific or medical rationale for these differences. Gilead  
12 was more concerned with increasing or maintaining crucial U.S. sales than it was in safeguarding  
13 patients from the known risks of TDF.

14 17. Gilead could have strengthened the warnings in its U.S. labels at any time, including  
15 before FDA approval for all TDF Drugs and after FDA approval for Viread, Truvada, Atripla, and  
16 Complera. After August 2008 through July 2012, Gilead could have unilaterally strengthened the  
17 warnings in its TDF Drug labels after approval based on: increasing evidence that patients with and  
18 without preexisting risk factors were experiencing adverse effects with a frequency and severity greater  
19 than reported in Gilead's Viread clinical trials; expanding evidence that all patients are at risk for TDF-  
20 induced nephrotoxicity; and Gilead's own determinations to give stronger warnings regarding the  
21 exact same TDF Drugs in the EU. This post-approval information demonstrated risks of a different  
22 frequency and severity than information previously presented to the FDA.

23 18. Gilead intentionally withheld a safer alternative design of TDF Drugs it knew to be  
24 dangerously toxic to patients' kidneys and bones, while failing to adequately warn about the risks and  
25 safer use of the defective drugs, solely to make more money. Accordingly, Plaintiffs bring this action  
26 to recover damages for their personal injuries and seek punitive damages arising from Gilead's willful  
27 and wanton conduct.

1 **II. JURISDICTION AND VENUE**

2 19. Jurisdiction exists under 28 U.S.C. § 1332(a) because all Plaintiffs and Gilead are  
3 citizens of different states and the matter in controversy exceeds the sum or value of \$75,000, exclusive  
4 of interests and costs.

5 Venue is proper in this District under 28 U.S.C. § 1391(1)–(2). Defendant resides in this  
6 District and a substantial part of the events and omissions giving rise to Plaintiffs’ claims occurred in  
7 this District.

8 **III. INTRADISTRICT ASSIGNMENT**

9 20. Pursuant to Civil L.R. 3-2(c), this action shall be assigned to the San Francisco Division  
10 or the Oakland Division because Gilead resides and has its principal place of business in San Mateo  
11 County. This action is related to another action pending before Judge Jon S. Tigar in the Northern  
12 District of California.

13 **IV. PARTIES**

14 21. Plaintiffs are consumers who ingested one or more of the following TDF Drugs: Viread,  
15 Truvada, Atripla, Complera, or Stribild.

16 22. Plaintiffs suffered personal injuries caused by ingesting TDF.

17 23. Plaintiff Albert J. Leon is and was at all relevant times a citizen of the State of Arizona  
18 and domiciled in Tucson, Arizona. Plaintiff Albert J. Leon purchased and ingested the following TDF  
19 Drugs for an FDA-approved use of the drugs: Viread, Truvada and Atripla beginning in 2014. As a  
20 result of Gilead’s wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested and  
21 was injured by the foregoing TDF Drugs. Plaintiff’s ingestion of the TDF Drugs caused and/or  
22 contributed to Plaintiff suffering bone demineralization, which resulted in a diagnosis of osteoporosis.  
23 Plaintiff required and incurred and will continue to require and incur expenses in connection with  
24 medical treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain,  
25 suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost  
26 earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.

27 24. Plaintiff Anissa A. Edison is and was at all relevant times a citizen of the State of  
28 Tennessee and domiciled in Knoxville, Tennessee. Plaintiff Anissa A. Edison purchased and ingested

1 the following TDF Drugs for an FDA-approved use of the drugs: Viread and Truvada beginning in  
2 2001. As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff  
3 ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused  
4 and/or contributed to Plaintiff suffering bone demineralization, which resulted in a diagnosis of  
5 osteoporosis. Plaintiff required and incurred and will continue to require and incur expenses in  
6 connection with medical treatment as a result of these injuries. Plaintiff has endured and will continue  
7 to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of their injuries, has  
8 suffered lost earnings and/or a loss of earning capacity, and other injuries and damages to be proven  
9 at trial.

10 25. Plaintiff Annabel Thomas is and was at all relevant times a citizen of the State of  
11 Georgia and domiciled in Atlanta, Georgia. Plaintiff Annabel Thomas purchased and ingested the  
12 following TDF Drug for an FDA-approved use of the drug: Truvada beginning 2012. As a result of  
13 Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured  
14 by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to  
15 Plaintiff suffering bone demineralization, which resulted in a diagnosis of bone density loss. Plaintiff  
16 required and incurred and will continue to require and incur expenses in connection with medical  
17 treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain, suffering,  
18 mental anguish, and loss of enjoyment of life as a result of her injuries, has suffered lost earnings  
19 and/or a loss of earning capacity, and other injuries and damages to be proven at trial.

20 26. Plaintiff Bert Chester Franklin is and was at all relevant times a citizen of the State of  
21 Ohio and domiciled in Cincinnati, Ohio. Plaintiff Bert Chester Franklin purchased and ingested the  
22 following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2007. As a result of  
23 Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured  
24 by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to  
25 Plaintiff suffering bone demineralization, which resulted in a diagnosis of osteoporosis. Plaintiff  
26 required and incurred and will continue to require and incur expenses in connection with medical  
27 treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain, suffering,  
28

1 mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or  
2 a loss of earning capacity, and other injuries and damages to be proven at trial.

3 27. Plaintiff Betty Gilliam is and was at all relevant times a citizen of the State of Ohio and  
4 domiciled in Cleveland, Ohio. Plaintiff Betty Gilliam purchased and ingested the following TDF Drug  
5 for an FDA-approved use of the drug: Truvada beginning in 2013. As a result of Gilead's wrongful  
6 conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the foregoing  
7 TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff suffering Stage  
8 3 Chronic Kidney Disease. Plaintiff required and incurred and will continue to require and incur  
9 expenses in connection with medical treatment as a result of these injuries. Plaintiff has endured and  
10 will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of her  
11 injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and damages to  
12 be proven at trial.

13 28. Plaintiff Bill J. Stacy is and was at all relevant times a citizen of the Commonwealth of  
14 Virginia and domiciled in Bristol, Virginia. Plaintiff Bill J. Stacy purchased and ingested the following  
15 TDF Drug for an FDA-approved use of the drug: Viread beginning in 2001. As a result of Gilead's  
16 wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the  
17 foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff  
18 suffering bone demineralization. Plaintiff required and incurred and will continue to require and incur  
19 expenses in connection with medical treatment as a result of these injuries. Plaintiff has endured and  
20 will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of his  
21 injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and damages to  
22 be proven at trial.

23 29. Plaintiff Bridget Lewis, individually and as personal representative for the Estate of  
24 Saleem S. Lewis, is and was at all relevant times a citizen of the State of New Jersey and domiciled in  
25 Jersey City, New Jersey. Plaintiff, Bridget Lewis is the mother of Saleem S. Lewis, deceased.  
26 Decedent, Saleem S. Lewis purchased and ingested the following TDF Drug for an FDA-approved use  
27 of the drug: Atripla beginning in 2012. As a result of Gilead's wrongful conduct with respect to the  
28 defective TDF Drug, Decedent ingested and was injured by the foregoing TDF Drug. Decedent's

1 ingestion of the TDF Drug caused and/or contributed to Decedent suffering renal failure, which  
2 ultimately resulted in his death. Decedent required and incurred expenses in connection with medical  
3 treatment as a result of these injuries. As a direct and proximate result of Defendant Gilead's wrongful  
4 conduct, Decedent Saleem S. Lewis suffered severe bodily injuries, pain, suffering, mental anguish,  
5 loss of enjoyment of life and loss of earnings and/or earning capacity, up to the time of his death.  
6 Decedent's death was a direct and proximate result of Defendant's wrongful conduct and the injuries  
7 caused and/or contributed to by Defendant's wrongful conduct. Plaintiff Bridget Lewis, individually  
8 and in her capacity as representative for the Estate of Saleem S. Lewis, has suffered loss of consortium  
9 in the past and future, including loss of the relationship, loss of affection, society, assistance, emotional  
10 support, care, comfort, solace, companionship, protection, and services; past and future pecuniary  
11 losses including earning capacity, advice, counsel, services, care, maintenance, support, and  
12 contributions that she would, in reasonable probability, have received had her son lived; past and future  
13 mental anguish; and past and future pecuniary losses including earning capacity; and the necessary  
14 expenses for any emergency care and funeral and burial expenses of Decedent Saleem S. Lewis and  
15 other damages to be proven at trial.

16 30. Plaintiff Byron Grady is and was at all relevant times a citizen of the State of Mississippi  
17 and domiciled in Poplarville, Mississippi. Plaintiff Byron Grady purchased and ingested the following  
18 TDF Drugs for an FDA-approved use of the drugs: Truvada and Atripla beginning in 2010. As a result  
19 of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested and was  
20 injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused and/or contributed  
21 to Plaintiff suffering Stage 3 Chronic Kidney Disease. Plaintiff required and incurred and will continue  
22 to require and incur expenses in connection with medical treatment as a result of these injuries. Plaintiff  
23 has endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life  
24 as a result of his injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries  
25 and damages to be proven at trial.

26 31. Plaintiff Carl Leggett is and was at all relevant times a citizen of the State of Arizona  
27 and domiciled in Kingman, Arizona. Plaintiff Carl Leggett purchased and ingested the following TDF  
28 Drugs for an FDA-approved use of the drugs: Atripla and Complera beginning in 2012. As a result of

1 Gilead’s wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested and was injured  
2 by the foregoing TDF Drugs. Plaintiff’s ingestion of the TDF Drugs caused and/or contributed to  
3 Plaintiff suffering kidney disease. Plaintiff Carl Leggett required and incurred and will continue to  
4 require and incur expenses in connection with medical treatment as a result of these injuries. Plaintiff  
5 has endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life  
6 as a result of his injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries  
7 and damages to be proven at trial.

8 32. Plaintiff Cecle Mae Jones Hammond, individually and as personal representative for  
9 the Estate of Gregory Hammond, is and was at all relevant times a citizen of the Commonwealth of  
10 Pennsylvania and domiciled in Pottstown, Pennsylvania. Plaintiff Cecle Mae Jones Hammond was the  
11 wife of Gregory Hammond, deceased. Decedent, Gregory Hammond, purchased and ingested the  
12 following TDF Drugs for an FDA-approved use of the drugs: Truvada and Atripla beginning in 2008.  
13 As a result of Gilead’s wrongful conduct with respect to the defective TDF Drugs, Decedent ingested  
14 and was injured by the foregoing TDF Drugs. Plaintiff’s ingestion of the TDF Drugs caused and/or  
15 contributed to Plaintiff suffering kidney dysfunction and bone demineralization, which resulted in  
16 diagnoses of Stage 3 Chronic Kidney Disease and osteoporosis. Decedent and/or the Estate incurred  
17 expenses in connection with medical treatment as a result of these injuries. Decedent endured pain,  
18 suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, and suffered lost  
19 earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.

20 33. Plaintiff Charity Howard is and was at all relevant times a citizen of the State of Georgia  
21 and domiciled in Savannah, Georgia. Plaintiff Charity Howard purchased and ingested the following  
22 TDF Drug for an FDA-approved use of the drug: Atripla beginning in 2011. As a result of Gilead’s  
23 wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the  
24 foregoing TDF Drug. Plaintiff’s ingestion of the TDF Drug caused and/or contributed to Plaintiff  
25 suffering Stage 3 Chronic Kidney Disease. Plaintiff Charity Howard required and incurred and will  
26 continue to require and incur expenses in connection with medical treatment as a result of these  
27 injuries. Plaintiff has endured and will continue to endure pain, suffering, mental anguish, and loss of  
28

1 enjoyment of life as a result of her injuries, and has suffered other injuries and damages to be proven  
2 at trial.

3 34. Plaintiff Christine Spann is and was at all relevant times a citizen of the State of  
4 Alabama and domiciled in Eufaula, Alabama. Plaintiff Christine Spann purchased and ingested the  
5 following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2012. As a result of  
6 Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured  
7 by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to  
8 Plaintiff suffering bone demineralization, which resulted in a diagnosis of osteoporosis. Plaintiff  
9 required and incurred and will continue to require and incur expenses in connection with medical  
10 treatment as a result of these injuries, including surgery and physical therapy. Plaintiff Christine Spann  
11 has endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life  
12 as a result of her injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries  
13 and damages to be proven at trial.

14 35. Plaintiff Christopher Gordon is and was at all relevant times a citizen of the State of  
15 Indiana and domiciled in Indianapolis, Indiana. Plaintiff Christopher Gordon purchased and ingested  
16 the following TDF Drug for an FDA-approved use of the drug: Viread beginning in 2002. As a result  
17 of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was  
18 injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed  
19 to Plaintiff suffering kidney disease. Plaintiff required and incurred and will continue to require and  
20 incur expenses in connection with medical treatment as a result of these injuries. Plaintiff has endured  
21 and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of  
22 his injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and damages  
23 to be proven at trial.

24 36. Plaintiff Christopher J. Del Val is and was at all relevant times a citizen of the State of  
25 Oregon and domiciled in Milwaukie, Oregon. Plaintiff Christopher J. Del Val purchased and ingested  
26 the following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2011. As a result  
27 of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was  
28 injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed



1 to Plaintiff suffering Stage 3 Chronic Kidney Disease. Plaintiff required and incurred and will continue  
2 to require and incur expenses in connection with medical treatment as a result of these injuries,  
3 including surgery and physical therapy. Plaintiff has endured and will continue to endure pain,  
4 suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost  
5 earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.

6 37. Plaintiff Clifford Mills is and was at all relevant times a citizen of the State of Texas  
7 and domiciled in Henderson, Texas. Plaintiff Clifford Mills purchased and ingested the following TDF  
8 Drug for an FDA-approved use of the drug: Atripla beginning in 2006. As a result of Gilead's wrongful  
9 conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the foregoing  
10 TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff suffering bone  
11 demineralization, which resulted in a diagnosis of osteoporosis and a fracture to Plaintiff's left tibia.  
12 Plaintiff required and incurred and will continue to require and incur expenses in connection with  
13 medical treatment as a result of these injuries, including surgery and physical therapy. Plaintiff has  
14 endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a  
15 result of his injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and  
16 damages to be proven at trial.

17 38. Plaintiff Courtney M. Mars is and was at all relevant times a citizen of the State of  
18 Georgia and domiciled in Lawrenceville, Georgia. Plaintiff Courtney M. Mars purchased and ingested  
19 the following TDF Drugs for an FDA-approved use of the drugs: Viread and Truvada beginning in  
20 2007. As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff  
21 ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused  
22 and/or contributed to Plaintiff suffering proximal renal tubular dysfunction. Plaintiff's ingestion of  
23 the TDF Drugs also caused and/or contributed to Plaintiff suffering bone demineralization, which  
24 resulted in a diagnosis of osteoporosis. Plaintiff required and incurred and will continue to require and  
25 incur expenses in connection with medical treatment as a result of these injuries. Plaintiff Courtney M.  
26 Mars has endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment  
27 of life as a result of his injuries, and has suffered other injuries and damages to be proven at trial.



1           39. Plaintiff Derick Graham is and was at all relevant times a citizen of the State of Illinois  
2 and domiciled in Chicago, Illinois. Plaintiff Derick Graham purchased and ingested the following TDF  
3 Drug for an FDA-approved use of the drug: Truvada beginning in 2005. As a result of Gilead's  
4 wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the  
5 foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff  
6 suffering bone demineralization, which resulted in a diagnosis of osteopenia. Plaintiff Derick Graham  
7 required and incurred and will continue to require and incur expenses in connection with medical  
8 treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain, suffering,  
9 mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or  
10 a loss of earning capacity, and other injuries and damages to be proven at trial.

11           40. Plaintiff Dexter Smith is and was at all relevant times a citizen of the State of Illinois  
12 and domiciled in Chicago, Illinois. Plaintiff Dexter Smith purchased and ingested the following TDF  
13 Drugs for an FDA-approved use of the drugs: Viread and Truvada beginning in 2004. As a result of  
14 Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested and was injured  
15 by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused and/or contributed to  
16 Plaintiff suffering bone demineralization, which resulted in a diagnosis of osteoporosis. Plaintiff  
17 Dexter Smith required and incurred and will continue to require and incur expenses in connection with  
18 medical treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain,  
19 suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost  
20 earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.

21           41. Plaintiffs Don F. Lett and Linda R. Lett, individually and as personal representatives  
22 for the Estate of Patricia Lett, are and were at all relevant times citizens of the State of New York and  
23 domiciled in Mamaroneck, New York. Plaintiffs Don F. and Linda R. Lett were the parents of Patricia  
24 Lett, deceased. Decedent, Patricia Lett, purchased and ingested the following TDF Drug for an FDA-  
25 approved use of the drug: Viread beginning in 2001. As a result of Gilead's wrongful conduct with  
26 respect to the defective TDF Drug, Decedent ingested and was injured by the foregoing TDF Drug.  
27 Decedent's ingestion of the TDF Drug caused and/or contributed to Decedent suffering end stage renal  
28 disease. Decedent and/or the Estate incurred expenses in connection with medical treatment as a result

1 of these injuries. Decedent endured pain, suffering, mental anguish, and loss of enjoyment of life as a  
2 result of her injuries, and suffered lost earnings and/or a loss of earning capacity, and other injuries  
3 and damages to be proven at trial.

4 42. Plaintiff Donald Lee Hicks is and was at all relevant times a citizen of the State of Texas  
5 and domiciled in Fort Worth, Texas. Plaintiff Donald Lee Hicks purchased and ingested the following  
6 TDF Drugs for an FDA-approved use of the drugs: Viread, Truvada, and Atripla beginning in 2012.  
7 As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested  
8 and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused and/or  
9 contributed to Plaintiff suffering Chronic Kidney Disease. Plaintiff Donald Lee Hicks required and  
10 incurred and will continue to require and incur expenses in connection with medical treatment as a  
11 result of these injuries. Plaintiff has endured and will continue to endure pain, suffering, mental  
12 anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss  
13 of earning capacity, and other injuries and damages to be proven at trial.

14 43. Plaintiff Douglas M. Wolf is and was at all relevant times a citizen of the State of Illinois  
15 and domiciled in Petersburg, Illinois. Plaintiff Douglas M. Wolf purchased and ingested the following  
16 TDF Drugs for an FDA-approved use of the drugs: Truvada, Atripla, and Viread beginning in 2001.  
17 As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested  
18 and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused and/or  
19 contributed to Plaintiff suffering kidney dysfunction and bone demineralization, which resulted in a  
20 diagnosis of low kidney function and osteoporosis. Plaintiff required and incurred and will continue to  
21 require and incur expenses in connection with medical treatment as a result of these injuries. Plaintiff  
22 Douglas M. Wolf has endured and will continue to endure pain, suffering, mental anguish, and loss of  
23 enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss of earning capacity,  
24 and other injuries and damages to be proven at trial.

25 44. Plaintiff Earl Summers is and was at all relevant times a citizen of the State of West  
26 Virginia and domiciled in Morgantown, West Virginia. Plaintiff Earl Summers purchased and ingested  
27 the following TDF Drugs for an FDA-approved use of the drugs: Viread and Truvada beginning in  
28 2007. As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff

1 ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused  
2 and/or contributed to Plaintiff suffering bone demineralization, which resulted in a diagnosis of  
3 osteoporosis. Plaintiff required and incurred and will continue to require and incur expenses in  
4 connection with medical treatment as a result of these injuries. Plaintiff has endured and will continue  
5 to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has  
6 suffered lost earnings and/or a loss of earning capacity, and other injuries and damages to be proven  
7 at trial.

8 45. Plaintiff Floyd Meeks is and was at all relevant times a citizen of the State of Arizona  
9 and domiciled in Tucson, Arizona. Plaintiff Floyd Meeks purchased and ingested the following TDF  
10 Drug for an FDA-approved use of the drug: Truvada beginning in 2016. As a result of Gilead's  
11 wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the  
12 foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff  
13 suffering acute kidney injury and Chronic Kidney Disease. Plaintiff Floyd Meeks required and incurred  
14 and will continue to require and incur expenses in connection with medical treatment as a result of  
15 these injuries. Plaintiff has endured and will continue to endure pain, suffering, mental anguish, and  
16 loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss of earning  
17 capacity, and other injuries and damages to be proven at trial.

18 46. Plaintiff Francisco Mendez is and was at all relevant times a citizen of the State of Idaho  
19 and domiciled in Caldwell, Idaho. Plaintiff Francisco Mendez purchased and ingested the following  
20 TDF Drugs for an FDA-approved use of the drugs: Viread, Truvada, and Atripla beginning in 2001.  
21 As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested  
22 and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused and/or  
23 contributed to Plaintiff suffering bone demineralization, which resulted in a diagnosis of osteoporosis.  
24 Plaintiff Francisco Mendez required and incurred and will continue to require and incur expenses in  
25 connection with medical treatment as a result of these injuries. Plaintiff has endured and will continue  
26 to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has  
27 suffered lost earnings and/or a loss of earning capacity, and other injuries and damages to be proven  
28 at trial.

1           47. Plaintiff Freda Dixon is and was at all relevant times a citizen of the Commonwealth of  
2 Pennsylvania and domiciled in Philadelphia, Pennsylvania. Plaintiff Freda Dixon purchased and  
3 ingested the following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2004.  
4 As a result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested  
5 and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or  
6 contributed to Plaintiff suffering bone demineralization, which resulted in a diagnosis of osteoporosis.  
7 Plaintiff required and incurred and will continue to require and incur expenses in connection with  
8 medical treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain,  
9 suffering, mental anguish, and loss of enjoyment of life as a result of her injuries, has suffered lost  
10 earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.

11           48. Plaintiff Gabriel Rodriguez is and was at all relevant times a citizen of the State of  
12 Texas and domiciled in San Antonio, Texas. Plaintiff Gabriel Rodriguez purchased and ingested the  
13 following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2005. As a result of  
14 Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured  
15 by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to  
16 Plaintiff suffering damage to his kidneys, which resulted in a diagnosis of low kidney function.  
17 Plaintiff required and incurred and will continue to require and incur expenses in connection with  
18 medical treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain,  
19 suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost  
20 earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.

21           49. Plaintiff Geraldine Bolden is and was at all relevant times a citizen of the State of Texas  
22 and domiciled in Dallas, Texas. Plaintiff Geraldine Bolden purchased and ingested the following TDF  
23 Drug for an FDA-approved use of the drug: Atripla beginning in 2009. As a result of Gilead's wrongful  
24 conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the foregoing  
25 TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff suffering Stage  
26 3 Chronic Kidney Disease. Plaintiff required and incurred and will continue to require and incur  
27 expenses in connection with medical treatment as a result of these injuries. Plaintiff has endured and  
28 will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of her

1 injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and damages to  
2 be proven at trial.

3           50. Plaintiff Glenda Ann Shelby, individually and as personal representative for the Estate  
4 of Trivaris Antuan Shelby, is and was at all relevant times a citizen of the State of Mississippi and  
5 domiciled in Yazoo City, Mississippi. Plaintiff, Glenda Ann Shelby is the mother of Trivaris Antuan  
6 Shelby, deceased. Decedent, Trivaris Antuan Shelby purchased and ingested the following TDF Drugs  
7 for an FDA-approved use of the drugs: Viread, Truvada and Stribild beginning in 2004. As a result of  
8 Gilead's wrongful conduct with respect to the defective TDF Drugs, Decedent ingested and was  
9 injured by the foregoing TDF Drugs. Decedent's ingestion of the TDF Drugs caused and/or contributed  
10 to Decedent's suffering of kidney failure, which ultimately resulted in his death at the young age of  
11 thirty-three. Decedent's ingestion of the defective TDF Drugs also caused and/or contributed to  
12 Decedent's suffering of bone demineralization and osteoporosis. Decedent required and incurred  
13 expenses in connection with medical treatment as a result of these injuries, including hospitalization  
14 and medical care. As a direct and proximate result of Defendant Gilead's wrongful conduct, Decedent  
15 Trivaris Antuan Shelby suffered severe bodily injuries, pain, suffering, mental anguish, loss of  
16 enjoyment of life and loss of earnings and/or earning capacity, up to the time of his death at the young  
17 age of thirty-three. Decedent's death was a direct and proximate result of Defendant's wrongful  
18 conduct and the injuries caused and/or contributed to Decedent by Defendant's wrongful conduct.  
19 Plaintiff Glenda Ann Shelby, individually and in her capacity as representative for the Estate of  
20 Trivaris Antuan Shelby, has suffered loss of consortium in the past and future, including loss of the  
21 relationship, loss of affection, society, assistance, emotional support, care, comfort, solace,  
22 companionship, protection, and services; past and future pecuniary losses including earning capacity,  
23 advice, counsel, services, care, maintenance, support, and contributions that she would, in reasonable  
24 probability, have received had her son lived; past and future mental anguish; and past and future  
25 pecuniary losses including earning capacity; and the necessary expenses for any emergency care and  
26 funeral and burial expenses of Decedent Trivaris Antuan Shelby; and other damages to be proven at  
27 trial.

1           51. Plaintiff Gregory Oliver is and was at all relevant times a citizen of the State of Texas  
2 and domiciled in Friendswood, Texas. Plaintiff Gregory Oliver purchased and ingested the following  
3 TDF Drug for an FDA-approved use of the drug: Atripla beginning in 2012. As a result of Gilead’s  
4 wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the  
5 foregoing TDF Drug. Plaintiff’s ingestion of the TDF Drug caused and/or contributed to Plaintiff  
6 suffering decreased kidney function. Plaintiff required and incurred and will continue to require and  
7 incur expenses in connection with medical treatment as a result of these injuries. Plaintiff has endured  
8 and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of  
9 his injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and damages  
10 to be proven at trial.

11           52. Plaintiff James Abbot Jr. is and was at all relevant times a citizen of the State of Ohio  
12 and domiciled in Cleveland, Ohio. Plaintiff James Abbot Jr. purchased and ingested the following TDF  
13 Drug for an FDA-approved use of the drug: Complera beginning in 2014. As a result of Gilead’s  
14 wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the  
15 foregoing TDF Drug. Plaintiff’s ingestion of the TDF Drug caused and/or contributed to Plaintiff  
16 suffering bone demineralization, which resulted in a diagnosis of osteoporosis and fractures to  
17 Plaintiff’s hip and foot. Plaintiff required and incurred and will continue to require and incur expenses  
18 in connection with medical treatment as a result of these injuries. Plaintiff has endured and will  
19 continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of his  
20 injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and damages to  
21 be proven at trial.

22           53. Plaintiff James Pollard is and was at all relevant times a citizen of the State of Texas  
23 and domiciled in Cleburne, Texas. Plaintiff James Pollard purchased and ingested the following TDF  
24 Drug for an FDA-approved use of the drug: Atripla beginning in 2011. As a result of Gilead’s wrongful  
25 conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the foregoing  
26 TDF Drug. Plaintiff’s ingestion of the TDF Drug caused and/or contributed to Plaintiff suffering bone  
27 demineralization, which resulted in a diagnosis of osteoporosis. Plaintiff James Pollard required and  
28 incurred and will continue to require and incur expenses in connection with medical treatment as a

1 result of these injuries. Plaintiff has endured and will continue to endure pain, suffering, mental  
2 anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss  
3 of earning capacity, and other injuries and damages to be proven at trial.

4 54. Plaintiff Jeffrey Medley is and was at all relevant times a citizen of the State of Georgia  
5 and domiciled in Valdosta, Georgia. Plaintiff Jeffrey Medley purchased and ingested the following  
6 TDF Drugs for an FDA-approved use of the drugs: Truvada and Complera beginning in 2007. As a  
7 result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested and  
8 was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused and/or  
9 contributed to Plaintiff suffering kidney dysfunction and bone demineralization, which resulted in the  
10 diagnoses of high creatinine levels and osteopenia. Plaintiff required and incurred and will continue to  
11 require and incur expenses in connection with medical treatment as a result of these injuries. Plaintiff  
12 has endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life  
13 as a result of his injuries, and has suffered other injuries and damages to be proven at trial.

14 55. Plaintiff Jeffrey Thomas Von-Schmidt is and was at all relevant times a citizen of the  
15 State of New Jersey and domiciled in Jackson, New Jersey. Plaintiff Jeffrey Thomas Von-Schmidt  
16 purchased and ingested the following TDF Drug for an FDA-approved use of the drug: Truvada  
17 beginning in 2010. As a result of Gilead's wrongful conduct with respect to the defective TDF Drug,  
18 Plaintiff ingested and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug  
19 caused and/or contributed to Plaintiff suffering bone demineralization, which resulted in a diagnosis  
20 of osteopenia. Plaintiff Jeffrey Thomas Von-Schmidt required and incurred and will continue to require  
21 and incur expenses in connection with medical treatment as a result of these injuries. Plaintiff has  
22 endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a  
23 result of his injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and  
24 damages to be proven at trial.

25 56. Jeric Craven is and was at all relevant times a citizen of the State of Texas and domiciled  
26 in Burleson, Texas. Plaintiff Jeric Craven purchased and ingested the following TDF Drug for an FDA-  
27 approved use of the drug: Viread beginning in 2002. As a result of Gilead's wrongful conduct with  
28 respect to the defective TDF Drug, Plaintiff ingested and was injured by the foregoing TDF Drug.



1 Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff suffering damage to his  
2 kidneys, which resulted in a diagnosis of high creatinine levels. Plaintiff Jeric Craven required and  
3 incurred and will continue to require and incur expenses in connection with medical treatment as a  
4 result of these injuries. Plaintiff has endured and will continue to endure pain, suffering, mental  
5 anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss  
6 of earning capacity, and other injuries and damages to be proven at trial.

7 57. Plaintiff Jermaine Ball is and was at all relevant times a citizen of the State of Texas  
8 and domiciled in Killeen, Texas. Plaintiff Jermaine Ball purchased and ingested the following TDF  
9 Drug for an FDA-approved use of the drug: Truvada for PrEP beginning in 2016. As a result of  
10 Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured  
11 by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to  
12 Plaintiff suffering abnormal protein levels in the urine. Plaintiff Jermaine Ball required and incurred  
13 and will continue to require and incur expenses in connection with medical treatment as a result of  
14 these injuries. Plaintiff has endured and will continue to endure pain, suffering, mental anguish, and  
15 loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss of earning  
16 capacity, and other injuries and damages to be proven at trial.

17 58. Plaintiff Jerron Knox is and was at all relevant times a citizen of the State of Georgia  
18 and domiciled in Stone Mountain, Georgia. Plaintiff Jerron Knox purchased and ingested the following  
19 TDF Drug for an FDA-approved use of the drug: Truvada beginning 2012. As a result of Gilead's  
20 wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the  
21 foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff  
22 suffering bone demineralization, which resulted in a diagnosis of weakening of the bones. Plaintiff  
23 required and incurred and will continue to require and incur expenses in connection with medical  
24 treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain, suffering,  
25 mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or  
26 a loss of earning capacity, and other injuries and damages to be proven at trial.

27 59. Plaintiff Jesse C. Burns, Jr, is and was at all relevant times a citizen of the State of Texas  
28 and domiciled in Houston, Texas. Plaintiff Jesse C. Burns, Jr, purchased and ingested the following



1 TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2004. As a result of Gilead's  
2 wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the  
3 foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff  
4 suffering bone demineralization, which resulted in a diagnosis of osteoporosis. Plaintiff required and  
5 incurred and will continue to require and incur expenses in connection with medical treatment as a  
6 result of these injuries. Plaintiff has endured and will continue to endure pain, suffering, mental  
7 anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss  
8 of earning capacity, and other injuries and damages to be proven at trial.

9 60. Plaintiff John Lee Edward Mauck is and was at all relevant times a citizen of the State  
10 of Oklahoma and domiciled in Tulsa, Oklahoma. Plaintiff John Lee Edward Mauck purchased and  
11 ingested the following TDF Drug for an FDA-approved use of the drug: Stribild beginning in 2016.  
12 As a result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested  
13 and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or  
14 contributed to Plaintiff suffering acute kidney failure. Plaintiff John Lee Edward Mauck required and  
15 incurred and will continue to require and incur expenses in connection with medical treatment as a  
16 result of these injuries. Plaintiff has endured and will continue to endure pain, suffering, mental  
17 anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss  
18 of earning capacity, and other injuries and damages to be proven at trial.

19 61. Plaintiff Josie M. Roper, individually and as personal representative for the Estate of  
20 Shameka L. Funchess, is and was at all relevant times a citizen of the State of Mississippi and  
21 domiciled in Jackson, Mississippi. Plaintiff Josie M. Roper was the mother of Shameka L. Funchess,  
22 deceased. Decedent, Shameka L. Funchess, purchased and ingested the following TDF Drugs for an  
23 FDA-approved use of the drugs: Truvada and Viread beginning in 2004. As a result of Gilead's  
24 wrongful conduct with respect to the defective TDF Drugs, Decedent ingested and was injured by the  
25 foregoing TDF Drugs. Decedent's ingestion of the TDF Drugs caused and/or contributed to Decedent  
26 suffering end-stage renal disease, which ultimately resulted in her death. Decedent required and  
27 incurred expenses in connection with medical treatment as a result of these injuries, including  
28 hospitalization and dialysis. As a direct and proximate result of Defendant Gilead's wrongful conduct,

1 Decedent suffered severe bodily injuries, pain, suffering, mental anguish, loss of enjoyment of life and  
2 loss of earnings and/or earning capacity, up to the time of her death. Gilead's wrongful conduct was a  
3 direct and proximate cause of Decedent's death. As a direct and proximate result of Gilead's wrongful  
4 conduct, Plaintiff Josie M. Roper, individually and in her capacity as representative for the Estate of  
5 Shameka L. Funchess, has suffered loss of affection, society, assistance, emotional support, care,  
6 comfort, solace, companionship, maintenance, support and services; and, the Estate has suffered past  
7 and future pecuniary including lost earning capacity, necessary expenses for medical treatment, funeral  
8 and burial expenses, and other damages to be proven at trial.

9 62. Plaintiff Kevin Love is and was at all relevant times a citizen of the State of Ohio and  
10 domiciled in Cincinnati, Ohio. Plaintiff Kevin Love purchased and ingested the following TDF Drug  
11 for an FDA-approved use of the drug: Complera beginning in 2015. As a result of Gilead's wrongful  
12 conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the foregoing  
13 TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff suffering bone  
14 density loss, which resulted in the diagnosis of osteoporosis. Plaintiff required and incurred and will  
15 continue to require and incur expenses in connection with medical treatment as a result of these  
16 injuries. Plaintiff has endured and will continue to endure pain, suffering, mental anguish, and loss of  
17 enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss of earning capacity,  
18 and other injuries and damages to be proven at trial.

19 63. Plaintiff Lenetta Turnbow-Bolden is and was at all relevant times a citizen of the State  
20 of Ohio and domiciled in Cincinnati, Ohio. Plaintiff Lenetta Turnbow-Bolden purchased and ingested  
21 the following TDF Drug for an FDA-approved use of the drug: Viread beginning in 2001. As a result  
22 of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was  
23 injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed  
24 to Plaintiff suffering kidney disease and low kidney function. Plaintiff Lenetta Turnbow-Bolden  
25 required and incurred and will continue to require and incur expenses in connection with medical  
26 treatment as a result of these injuries. Plaintiff Lenetta Turnbow-Bolden has endured and will continue  
27 to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of her injuries, has  
28

1 suffered lost earnings and/or a loss of earning capacity, and other injuries and damages to be proven  
2 at trial.

3 64. Plaintiff Linda Teague Thornton is and was at all relevant times a citizen of the State  
4 of Alabama and domiciled in Highland Home, Alabama. Plaintiff Linda Teague Thornton purchased  
5 and ingested the following TDF Drug for an FDA-approved use of the drug: Atripla beginning in 2010.  
6 As a result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested  
7 and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or  
8 contributed to Plaintiff suffering bone demineralization, which resulted in a diagnosis of osteoporosis.  
9 Plaintiff Linda Teague Thornton required and incurred and will continue to require and incur expenses  
10 in connection with medical treatment as a result of these injuries. Plaintiff Linda Teague Thornton has  
11 endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a  
12 result of her injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and  
13 damages to be proven at trial.

14 65. Plaintiff Lonnie C. Carr is and was at all relevant times a citizen of the State of Texas  
15 and domiciled in Houston, Texas. Plaintiff Lonnie C. Carr purchased and ingested the following TDF  
16 Drug for an FDA-approved use of the drug: Truvada beginning in 2004. As a result of Gilead's  
17 wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the  
18 foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff  
19 suffering bone demineralization, which resulted in a diagnosis of osteoporosis. Plaintiff Lonnie C. Carr  
20 required and incurred and will continue to require and incur expenses in connection with medical  
21 treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain, suffering,  
22 mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or  
23 a loss of earning capacity, and other injuries and damages to be proven at trial.

24 66. Plaintiff Marcus Crumble is and was at all relevant times a citizen of the State of  
25 Arizona and domiciled in Phoenix, Arizona. Plaintiff Marcus Crumble purchased and ingested the  
26 following TDF Drug for an FDA-approved use of the drug: Atripla beginning in 2010. As a result of  
27 Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured  
28 by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to

1 Plaintiff suffering bone demineralization. Plaintiff Marcus Crumble required and incurred and will  
2 continue to require and incur expenses in connection with medical treatment as a result of these  
3 injuries. Plaintiff has endured and will continue to endure pain, suffering, mental anguish, and loss of  
4 enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss of earning capacity,  
5 and other injuries and damages to be proven at trial.

6 67. Plaintiff Marion L. Parker, individually and as personal representative for the Estate of  
7 Samuel L. Parker, is and was at all relevant times a citizen of the State of Ohio and domiciled in  
8 Warren, Ohio. Plaintiff, Marion L. Parker is the wife of Samuel L. Parker, deceased. Decedent, Samuel  
9 L. Parker purchased and ingested the following TDF Drug for an FDA-approved use of the drug:  
10 Truvada beginning in 2013. As a result of Gilead's wrongful conduct with respect to the defective TDF  
11 Drug, Decedent ingested and was injured by the foregoing TDF Drug. Decedent's ingestion of the  
12 TDF Drug caused and/or contributed to Decedent suffering kidney failure, which ultimately resulted  
13 in his death. Decedent's ingestion of the defective TDF Drug also caused and/or contributed to  
14 Decedent suffering bone density loss and weakening of his bones. Decedent required and incurred  
15 expenses in connection with medical treatment as a result of these injuries. As a direct and proximate  
16 result of Defendant Gilead's wrongful conduct, Decedent Samuel L. Parker suffered severe bodily  
17 injuries, pain, suffering, mental anguish, loss of enjoyment of life and loss of earnings and/or earning  
18 capacity, up to the time of his death. Decedent's death was a direct and proximate result of Defendant's  
19 wrongful conduct and the injuries caused to Decedent by Defendant's wrongful conduct. Plaintiff  
20 Marion L. Parker, individually and in her capacity as representative for the Estate of Samuel L. Parker,  
21 has suffered loss of consortium in the past and future, including loss of the relationship, loss of  
22 affection, society, assistance, emotional support, care, comfort, solace, companionship, protection, and  
23 services; past and future pecuniary losses including earning capacity, advice, counsel, services, care,  
24 maintenance, support, and contributions that she would, in reasonable probability, have received had  
25 her husband lived; past and future mental anguish; and past and future pecuniary losses including  
26 earning capacity; and the necessary expenses for any emergency care and funeral and burial expenses  
27 of Decedent Samuel L. Parker; and other damages to be proven at trial.

1           68. Plaintiff Michael Aikins is and was at all relevant times a citizen of the State of Texas  
2 and domiciled in Garland, Texas. Plaintiff Michael Aikins purchased and ingested the following TDF  
3 Drug for an FDA-approved use of the drug: Atripla beginning in 2006. As a result of Gilead’s wrongful  
4 conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the foregoing  
5 TDF Drug. Plaintiff’s ingestion of the TDF Drug caused and/or contributed to Plaintiff suffering Stage  
6 4 Chronic Kidney Disease. Plaintiff Michael Aikins required and incurred and will continue to require  
7 and incur expenses in connection with medical treatment as a result of these injuries. Plaintiff has  
8 endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a  
9 result of his injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and  
10 damages to be proven at trial.

11           69. Plaintiff Michael Niece-Jacoby is and was at all relevant times a citizen of the State of  
12 Iowa and domiciled in Cedar Rapids, Iowa. Plaintiff Michael Niece-Jacoby purchased and ingested  
13 the following TDF Drugs for an FDA-approved use of the drugs: Viread and Truvada beginning in  
14 2003. As a result of Gilead’s wrongful conduct with respect to the defective TDF Drugs, Plaintiff  
15 ingested and was injured by the foregoing TDF Drugs. Plaintiff’s ingestion of the TDF Drugs caused  
16 and/or contributed to Plaintiff suffering Stage 5 Chronic Kidney Disease. Plaintiff required and  
17 incurred and will continue to require and incur expenses in connection with medical treatment as a  
18 result of these injuries. Plaintiff has endured and will continue to endure pain, suffering, mental  
19 anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss  
20 of earning capacity, and other injuries and damages to be proven at trial.

21           70. Plaintiff Michael Ray Roberts is and was at all relevant times a citizen of the State of  
22 Texas and domiciled in Galveston, Texas. Plaintiff Michael Ray Roberts purchased and ingested the  
23 following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2006. As a result of  
24 Gilead’s wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured  
25 by the foregoing TDF Drug. Plaintiff’s ingestion of the TDF Drug caused and/or contributed to  
26 Plaintiff suffering Stage 5 Chronic Kidney Disease. Plaintiff required and incurred and will continue  
27 to require and incur expenses in connection with medical treatment as a result of these injuries. Plaintiff  
28 has endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life

1 as a result of his injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries  
2 and damages to be proven at trial.

3 71. Plaintiff Norman G. Grant at all relevant times a citizen of the State of Texas and  
4 domiciled in Fort Worth, Texas. Plaintiff Norman G. Grant purchased and ingested the following TDF  
5 Drug for an FDA-approved use of the drug: Atripla beginning in 2006. As a result of Gilead's wrongful  
6 conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the foregoing  
7 TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff suffering acute  
8 kidney injury requiring hospitalization. Plaintiff Norman Gregory Grant required and incurred and will  
9 continue to require and incur expenses in connection with medical treatment as a result of these  
10 injuries. Plaintiff has endured and will continue to endure pain, suffering, mental anguish, and loss of  
11 enjoyment of life as a result of his injuries, and other injuries and damages to be proven at trial.

12 72. Plaintiff Pamela Franklin is and was at all relevant times a citizen of the State of Georgia  
13 and domiciled in Stone Mountain, Georgia. Plaintiff Pamela Franklin purchased and ingested the  
14 following TDF Drugs for an FDA-approved use of the drugs: Viread and Truvada beginning in 2002.  
15 As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested  
16 and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused and/or  
17 contributed to Plaintiff suffering bone demineralization, which resulted in a diagnosis of bone density  
18 loss. Plaintiff Pamela Franklin required and incurred and will continue to require and incur expenses  
19 in connection with medical treatment as a result of these injuries. Plaintiff has endured and will  
20 continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of her  
21 injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and damages to  
22 be proven at trial.

23 73. Plaintiff Patrick S. Cusac is and was at all relevant times a citizen of the State of  
24 Oklahoma and domiciled in Kellyville, Oklahoma. Plaintiff Patrick S. Cusac purchased and ingested  
25 the following TDF Drugs for an FDA-approved use of the drugs: Truvada and Atripla beginning in  
26 2004. As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff  
27 ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused  
28 and/or contributed to Plaintiff suffering kidney damages and high creatinine levels. Plaintiff required

1 and incurred and will continue to require and incur expenses in connection with medical treatment as  
2 a result of these injuries. Plaintiff has endured and will continue to endure pain, suffering, mental  
3 anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss  
4 of earning capacity, and other injuries and damages to be proven at trial.

5 74. Plaintiff Pearlie Williams, individually and as personal representative for Bobby  
6 Sargent, is and was at all relevant times a citizen of the State of Texas and domiciled in Bryan, Texas.  
7 Plaintiff Pearlie Williams is the mother of Bobby Sargent, incapacitated. Incapacitated, Bobby Sargent,  
8 purchased and ingested the following TDF Drugs for an FDA-approved use of the drugs: Viread and  
9 Truvada beginning in 2010. As a result of Gilead's wrongful conduct with respect to the defective TDF  
10 Drugs, Bobby Sargent ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of  
11 the TDF Drugs caused and/or contributed to Plaintiff suffering Chronic Kidney Disease. Mr. Sargent  
12 and/or his guardianship estate incurred expenses in connection with medical treatment as a result of  
13 these injuries. Incapacitated endured pain, suffering, mental anguish, and loss of enjoyment of life as  
14 a result of his injuries, and suffered lost earnings and/or a loss of earning capacity, and other injuries  
15 and damages to be proven at trial.

16 75. Plaintiff Prez Johnson Sr. is and was at all relevant times a citizen of the Commonwealth  
17 of Pennsylvania and domiciled in Munhall, Pennsylvania. Plaintiff Prez Johnson Sr. purchased and  
18 ingested the following TDF Drug for an FDA-approved use of the drug: Atripla beginning in 2010. As  
19 a result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and  
20 was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or  
21 contributed to Plaintiff suffering damage to his kidneys, which resulted in a diagnosis of high creatinine  
22 levels. Plaintiff Prez Johnson Sr. required and incurred and will continue to require and incur expenses  
23 in connection with medical treatment as a result of these injuries. Plaintiff has endured and will  
24 continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of his  
25 injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and damages to  
26 be proven at trial.

27 76. Plaintiff Raymon Lopez is and was at all relevant times a citizen of the State of Texas  
28 and domiciled in Dallas, Texas. Plaintiff Raymon Lopez purchased and ingested the following TDF



1 Drug for an FDA-approved use of the drug: Truvada beginning in 2010. As a result of Gilead's  
2 wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the  
3 foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff  
4 suffering damage to his kidneys, which resulted in a diagnosis of acute kidney failure. Plaintiff  
5 Raymon Lopez required and incurred and will continue to require and incur expenses in connection  
6 with medical treatment as a result of these injuries. Plaintiff has endured and will continue to endure  
7 pain, suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered  
8 lost earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.

9 77. Plaintiff Rebecca Lutz is and was at all relevant times a citizen of the State of Arizona  
10 and domiciled in Phoenix, Arizona. Plaintiff Rebecca Lutz purchased and ingested the following TDF  
11 Drugs for an FDA-approved use of the drugs: Atripla and Complera beginning in 2007. As a result of  
12 Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested and was injured  
13 by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused and/or contributed to  
14 Plaintiff suffering Chronic Kidney Disease. Plaintiff's ingestion of the TDF Drugs also caused and/or  
15 contributed to Plaintiff suffering bone demineralization, which resulted in a diagnosis of bone density  
16 loss and fractures to Plaintiff's arms. Plaintiff required and incurred and will continue to require and  
17 incur expenses in connection with medical treatment as a result of these injuries, including surgery and  
18 physical therapy. Plaintiff has endured and will continue to endure pain, suffering, mental anguish, and  
19 loss of enjoyment of life as a result of her injuries, has suffered lost earnings and/or a loss of earning  
20 capacity, and other injuries and damages to be proven at trial.

21 78. Plaintiff ReMarro Branch is and was at all relevant times a citizen of the State of  
22 Georgia and domiciled in Sandy Springs, Georgia. Plaintiff ReMarro Branch purchased and ingested  
23 the following TDF Drugs for an FDA-approved use of the drugs: Truvada and Atripla beginning in  
24 2012. As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff  
25 ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused  
26 and/or contributed to Plaintiff suffering Chronic Kidney Disease. Plaintiff required and incurred and  
27 will continue to require and incur expenses in connection with medical treatment as a result of these  
28 injuries. Plaintiff has endured and will continue to endure pain, suffering, mental anguish, and loss of



1 enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss of earning capacity,  
2 and other injuries and damages to be proven at trial.

3 79. Plaintiff Rhoda V. Long is and was at all relevant times a citizen of the State of Texas  
4 and domiciled in Houston, Texas. Plaintiff Rhoda V. Long purchased and ingested the following TDF  
5 Drug for an FDA-approved use of the drug: Viread beginning in 2004. As a result of Gilead's wrongful  
6 conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the foregoing  
7 TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff suffering Stage  
8 3 Chronic Kidney Disease. Plaintiff Rhoda V. Long required and incurred and will continue to require  
9 and incur expenses in connection with medical treatment as a result of these injuries. Plaintiff has  
10 endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a  
11 result of her injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and  
12 damages to be proven at trial.

13 80. Plaintiff Robert E. Lynn is and was at all relevant times a citizen of the State of Texas  
14 and domiciled in Dallas, Texas. Plaintiff Robert E. Lynn purchased and ingested the following TDF  
15 Drug for an FDA-approved use of the drug: Truvada beginning in 2011. As a result of Gilead's  
16 wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the  
17 foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff  
18 suffering bone demineralization, which resulted in a diagnosis of bone density loss. Plaintiff required  
19 and incurred and will continue to require and incur expenses in connection with medical treatment as  
20 a result of these injuries. Plaintiff has endured and will continue to endure pain, suffering, mental  
21 anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss  
22 of earning capacity, and other injuries and damages to be proven at trial.

23 81. Plaintiff Rodney Peters is and was at all relevant times a citizen of the Commonwealth  
24 of Pennsylvania and domiciled in Catasauqua, Pennsylvania. Plaintiff Rodney Peters purchased and  
25 ingested the following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2013.  
26 As a result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested  
27 and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or  
28 contributed to Plaintiff suffering damages to his kidneys, which resulted in a diagnosis of decreased

1 kidney function. Plaintiff required and incurred and will continue to require and incur expenses in  
2 connection with medical treatment as a result of these injuries. Plaintiff has endured and will continue  
3 to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has  
4 suffered lost earnings and/or a loss of earning capacity, and other injuries and damages to be proven  
5 at trial.

6 82. Plaintiff Ronald Matthews is and was at all relevant times a citizen of the State of Texas  
7 and domiciled in Houston, Texas. Plaintiff Ronald Matthews purchased and ingested the following  
8 TDF Drug for an FDA-approved use of the drug: Atripla beginning in 2009. As a result of Gilead's  
9 wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the  
10 foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff  
11 suffering damage to his kidneys, which resulted in a diagnosis of low kidney function. Plaintiff  
12 required and incurred and will continue to require and incur expenses in connection with medical  
13 treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain, suffering,  
14 mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or  
15 a loss of earning capacity, and other injuries and damages to be proven at trial.

16 83. Plaintiff Ronald Smith is and was at all relevant times a citizen of the State of Illinois  
17 and domiciled in Chicago, Illinois. Plaintiff Ronald Smith purchased and ingested the following TDF  
18 Drug for an FDA-approved use of the drug: Atripla beginning in 2006. As a result of Gilead's wrongful  
19 conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the foregoing  
20 TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff suffering bone  
21 demineralization, which resulted in a diagnosis of weakening of the bones. Plaintiff Ronald Smith  
22 required and incurred and will continue to require and incur expenses in connection with medical  
23 treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain, suffering,  
24 mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or  
25 a loss of earning capacity, and other injuries and damages to be proven at trial.

26 84. Plaintiff Ronald E. Williams Jr. is and was at all relevant times a citizen of the  
27 Commonwealth of Virginia and domiciled in Rural Retreat, Virginia. Plaintiff Ronald E. Williams Jr.  
28 purchased and ingested the following TDF Drug for an FDA-approved use of the drug: Viread

1 beginning in 2003. As a result of Gilead's wrongful conduct with respect to the defective TDF Drug,  
2 Plaintiff ingested and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug  
3 caused and/or contributed to Plaintiff suffering Stage 3 Chronic Kidney Disease. Plaintiff Ronald E.  
4 Williams Jr. required and incurred and will continue to require and incur expenses in connection with  
5 medical treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain,  
6 suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost  
7 earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.

8 85. Plaintiff Roy Garner is and was at all relevant times a citizen of the State of Mississippi  
9 and domiciled in Corinth, Mississippi. Plaintiff Roy Garner purchased and ingested the following TDF  
10 Drugs for an FDA-approved use of the drugs: Truvada, Atripla, and Stribild beginning in 2012. As a  
11 result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested and  
12 was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused and/or  
13 contributed Plaintiff suffering low kidney function. Plaintiff Roy Garner required and incurred and  
14 will continue to require and incur expenses in connection with medical treatment as a result of these  
15 injuries. Plaintiff has endured and will continue to endure pain, suffering, mental anguish, and loss of  
16 enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss of earning capacity,  
17 and other injuries and damages to be proven at trial.

18 86. Plaintiff Sandra Smith is and was at all relevant times a citizen of the State of Texas  
19 and domiciled in Houston, Texas. Plaintiff Sandra Smith purchased and ingested the following TDF  
20 Drugs for an FDA-approved use of the drugs: Truvada, Atripla and Viread beginning in 2011. As a  
21 result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested and  
22 was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused and/or  
23 contributed to Plaintiff suffering bone demineralization, which resulted in a diagnosis of osteoporosis.  
24 Plaintiff required and incurred and will continue to require and incur expenses in connection with  
25 medical treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain,  
26 suffering, mental anguish, and loss of enjoyment of life as a result of her injuries, has suffered lost  
27 earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.

1           87. Plaintiff Shannon Williams is and was at all relevant times a citizen of the State of  
2 Texas and domiciled in Dallas, Texas. Plaintiff Shannon Williams purchased and ingested the  
3 following TDF Drug for an FDA-approved use of the drug: Viread beginning in 2004. As a result of  
4 Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured  
5 by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to  
6 Plaintiff suffering low kidney function. Plaintiff Shannon Williams required and incurred and will  
7 continue to require and incur expenses in connection with medical treatment as a result of these  
8 injuries. Plaintiff has endured and will continue to endure pain, suffering, mental anguish, and loss of  
9 enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss of earning capacity,  
10 and other injuries and damages to be proven at trial.

11           88. Plaintiff Tammy Slaughter is and was at all relevant times a citizen of the State of Texas  
12 and domiciled in Mesquite, Texas. Plaintiff Tammy Slaughter purchased and ingested the following  
13 TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2012. As a result of Gilead's  
14 wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the  
15 foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff  
16 suffering bone demineralization, which resulted in a diagnosis of bone density loss. Plaintiff required  
17 and incurred and will continue to require and incur expenses in connection with medical treatment as  
18 a result of these injuries. Plaintiff has endured and will continue to endure pain, suffering, mental  
19 anguish, and loss of enjoyment of life as a result of her injuries, has suffered lost earnings and/or a loss  
20 of earning capacity, and other injuries and damages to be proven at trial.

21           89. Plaintiff Tangalar Armstrong is and was at all relevant times a citizen of the State of  
22 Texas and domiciled in Houston, Texas. Plaintiff Tangalar Armstrong purchased and ingested the  
23 following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2005. As a result of  
24 Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured  
25 by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to  
26 Plaintiff suffering bone demineralization, which resulted in a diagnosis of osteoporosis. Plaintiff  
27 required and incurred and will continue to require and incur expenses in connection with medical  
28 treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain, suffering,

1 mental anguish, and loss of enjoyment of life as a result of her injuries, has suffered lost earnings  
2 and/or a loss of earning capacity, and other injuries and damages to be proven at trial.

3 90. Plaintiff Theresa Baldwin is and was at all relevant times a citizen of the State of Illinois  
4 and domiciled in East St. Louis, Illinois. Plaintiff Theresa Baldwin purchased and ingested the  
5 following TDF Drugs for an FDA-approved use of the drugs: Truvada and Atripla beginning in 2008.  
6 As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested  
7 and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused and/or  
8 contributed to Plaintiff suffering bone demineralization, which resulted in a diagnosis of weakening of  
9 the bones and low bone density. Plaintiff required and incurred and will continue to require and incur  
10 expenses in connection with medical treatment as a result of these injuries. Plaintiff has endured and  
11 will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of her  
12 injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and damages to  
13 be proven at trial.

14 91. Plaintiff Timothy Bradford is and was at all relevant times a citizen of the State of  
15 Oregon and domiciled in Waldport, Oregon. Plaintiff Timothy Bradford purchased and ingested the  
16 following TDF Drugs for an FDA-approved use of the drugs: Truvada and Atripla beginning in 2004.  
17 As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested  
18 and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused and/or  
19 contributed to Plaintiff suffering bone demineralization. Plaintiff required and incurred and will  
20 continue to require and incur expenses in connection with medical treatment as a result of these  
21 injuries. Plaintiff has endured and will continue to endure pain, suffering, mental anguish, and loss of  
22 enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss of earning capacity,  
23 and other injuries and damages to be proven at trial.

24 92. Plaintiff Toney Ray Clark is and was at all relevant times a citizen of the State of Texas  
25 and domiciled in Dallas, Texas. Plaintiff Toney Ray Clark purchased and ingested the following TDF  
26 Drug for an FDA-approved use of the drug: Truvada beginning in 2004. As a result of Gilead's  
27 wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the  
28 foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff

1 suffering bone demineralization, which resulted in a diagnosis of bone density loss. Plaintiff Toney  
2 Ray Clark required and incurred and will continue to require and incur expenses in connection with  
3 medical treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain,  
4 suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost  
5 earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.

6 93. Plaintiff Tony Jerry is and was at all relevant times a citizen of the State of Texas and  
7 domiciled in Dallas, Texas. Plaintiff Tony Jerry purchased and ingested the following TDF Drugs for  
8 an FDA-approved use of the drugs: Viread, Truvada and Complera beginning in 2002. As a result of  
9 Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested and was injured  
10 by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused and/or contributed to  
11 Plaintiff suffering bone demineralization, which resulted or contributed in a diagnosis of weakening  
12 of the bones. Plaintiff required and incurred and will continue to require and incur expenses in  
13 connection with medical treatment as a result of these injuries. Plaintiff has endured and will continue  
14 to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has  
15 suffered lost earnings and/or a loss of earning capacity, and other injuries and damages to be proven  
16 at trial.

17 94. Plaintiff Valerie Holliday is and was at all relevant times a citizen of the  
18 Commonwealth of Pennsylvania and domiciled in Philadelphia, Pennsylvania. Plaintiff Valerie  
19 Holliday purchased and ingested the following TDF Drug for an FDA-approved use of the drug:  
20 Truvada beginning in 2006. As a result of Gilead's wrongful conduct with respect to the defective TDF  
21 Drug, Plaintiff ingested and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF  
22 Drug caused and/or contributed to Plaintiff suffering bone demineralization, which resulted in a  
23 diagnosis of low bone density. Plaintiff Valerie Holliday required and incurred and will continue to  
24 require and incur expenses in connection with medical treatment as a result of these injuries. Plaintiff  
25 has endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life  
26 as a result of her injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries  
27 and damages to be proven at trial.





1 obtain approval from the Food and Drug Administration (“FDA”) before selling the drug in interstate  
2 commerce. 21 U.S.C. § 355.

3 99. The NDA must include, among other things, data regarding the safety and effectiveness  
4 of the drug, information on any patents that purportedly cover the drug or a method of using the drug,  
5 and the labeling proposed to be used for the drug. 21 U.S.C. § 355(b).

6 100. Manufacturers with an approved NDA must review all adverse drug experience  
7 information obtained by or otherwise received by them from any source, including but not limited to  
8 postmarketing experience, reports in the scientific literature, and unpublished scientific papers. 21  
9 C.F.R. § 314.80(b).

10 101. After FDA approval, manufacturers may only promote drugs in a manner consistent  
11 with the contents of the drug’s FDA-approved label. 21 C.F.R. § 202.1. The FDA’s Division of Drug  
12 Marketing, Advertising, and Communications monitors manufacturers’ promotional activities and  
13 enforces the FDCA and its implementing regulations to ensure compliance.

14 102. Under what is known as the Changes Being Effected (“CBE”) regulation, a  
15 manufacturer with an approved NDA can make certain changes to its label without prior FDA approval  
16 by simply sending the FDA a “supplemental submission.” 21 C.F.R. § 314.70(c)(6)(iii).

17 103. Changes to the labeling a manufacturer can make pursuant to CBE without prior FDA  
18 approval include those to “add or strengthen a contraindication, warning, precaution, or adverse  
19 reactions for which the evidence of causal association satisfies the standard for inclusion in the labeling  
20 under § 201.57(c) of this chapter” and “to add or strengthen an instruction about dosage and  
21 administration that is intended to increase the safe use of the drug product.” 21 C.F.R.  
22 § 314.70(c)(6)(iii)(A) and (C).

23 104. A manufacturer must revise its label “to include a warning about a clinically significant  
24 hazard as soon as there is reasonable evidence of a causal association with a drug; a causal relationship  
25 need not have been definitively established.” 21 C.F.R. § 201.57(c)(6).

26 105. The warnings section of the label “must identify any laboratory tests helpful in  
27 following the patient’s response or in identifying possible adverse reactions. If appropriate,  
28 information must be provided on such factors as the range of normal and abnormal values expected in



1 the particular situation and the recommended frequency with which tests should be performed before,  
2 during, and after therapy.” *Id.* § 201.57(c)(6)(iii). According to an FDA Guidance for Industry on the  
3 warnings and precautions section of the labeling, “[i]nformation about the frequency of testing and  
4 expected ranges of normal and abnormal values should also be provided if available.”<sup>4</sup>

5 106. Adverse reactions must be added to the label where there “is some basis to believe there  
6 is a causal relationship between the drug and the occurrence of the adverse event.” *Id.* § 201.57(c)(7).

7 107. An August 22, 2008 amendment to these regulations provides that a CBE supplement  
8 to amend the labeling for an approved product must reflect “newly acquired information.” 73 Fed.  
9 Reg. 49,609. “Newly acquired information” is not limited to new data but also includes “new analysis  
10 of previously submitted data.” “[I]f a sponsor submits adverse event information to FDA, and then  
11 later conducts a new analysis of data showing risks of a different type or of greater severity or  
12 frequency than did reports previously submitted to FDA, the sponsor meets the requirement for ‘newly  
13 acquired information.’” *Id.* at 49,607.

14 108. Under the 1984 Hatch-Waxman Amendments to the Act, Congress sought to expedite  
15 the entry of less expensive generic versions of brand name drugs by simplifying the generic approval  
16 process. A generic manufacturer seeking to sell a generic version of a brand name drug may file an  
17 Abbreviated New Drug Application (“ANDA”), which relies on the brand manufacturer’s safety and  
18 efficacy data. The ANDA filer must demonstrate that its proposed generic product is therapeutically  
19 equivalent to the brand name drug, meaning that it: (a) contains the same active ingredient(s), dosage  
20 form, route of administration, and strength as the brand name drug; and (b) is bioequivalent to the  
21 brand drug (i.e., the drugs exhibit the same rate and extent of absorption).

22 109. As a counter-balance to the abbreviated process for the approval of generic drugs,  
23 Hatch-Waxman may grant brand manufacturers a period of market exclusivity upon approval of the  
24 NDA. For example, Hatch-Waxman grants a five-year period of exclusivity (regardless of any patent  
25 protection) to products containing chemical entities not previously approved by the FDA. Under this  
26

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27 <sup>4</sup> [https://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/  
28 UCM075096.pdf](https://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM075096.pdf).

1 five-year exclusivity, the FDA cannot even accept an ANDA to make a generic version of the drug for  
2 four or five years from NDA approval (depending upon whether the generic asserted that the brand's  
3 patents were invalid or not infringed).

4 110. Hatch-Waxman also streamlined the process for brand manufacturers to attempt to  
5 enforce their patents against potential infringement by generic manufacturers. If an ANDA contains a  
6 certification that the patents the brand has listed in its NDA are invalid or will not be infringed by the  
7 ANDA generic product (a "Paragraph IV certification"), the brand manufacturer can automatically  
8 delay FDA approval of the generic drug by suing the generic manufacturer for patent infringement. If  
9 the brand manufacturer brings a patent infringement action against the generic filer within 45 days of  
10 receiving notification of the Paragraph IV certification, the FDA may not grant final approval to the  
11 ANDA until the earlier of (a) the passage of two and a half years, or (b) the issuance of a court decision  
12 that the patent is invalid or not infringed by the generic manufacturer's ANDA. 21 U.S.C.  
13 § 355(j)(5)(B)(iii).

14 111. Generic drugs that are therapeutically equivalent to the brand name drug may be  
15 automatically substituted for the brand at the pharmacy counter. Due to state automatic substitution  
16 laws that permit or require generic substitution, once a generic version of a brand-name drug enters  
17 the market, the generic quickly captures the vast majority of the brand's sales, often obtaining 80% or  
18 more of unit sales within the first six months. On average, generics capture 90% of brand unit sales  
19 within the first year of generic entry.

20 **2. Tenofovir and Gilead's TDF- and TAF- containing drug products indicated for**  
21 **use in treating HIV.**

22 112. Tenofovir (chemical name, 9-(2-Phosphonomethoxypropyl)adenine ("PMPA")) is a  
23 type of medicine called a nucleotide analog reverse transcriptase and HBV polymerase inhibitor  
24 ("NRTI").

25 113. In order for HIV to infect a healthy human cell, the virus must convert its ribonucleic  
26 acid ("RNA") based genome into a strand of complementary deoxyribonucleic acid ("DNA"). This  
27 process of converting the virus's RNA into DNA is reverse transcription, and is performed by an  
28

1 enzyme named reverse transcriptase. Reverse transcription occurs inside the human cell that the virus  
2 is infecting.

3 114. NRTIs prevent the reverse transcriptase from converting its RNA into DNA, preventing  
4 the infection of the cell and spread of HIV. In order for NRTIs to stop HIV from infecting a cell, the  
5 drug must be absorbed into the cell and “activated” by the cell’s biological machinery. The “activated”  
6 form of tenofovir is known as tenofovir-diphosphate (“TFV-DP”).

7 115. When used to treat HIV infection, tenofovir must be administered in combination with  
8 other anti-HIV drugs, a practice known as “combination antiretroviral therapy” or “cART.” By using  
9 a combination of different classes of medications, physicians can customize treatment based on factors  
10 including how much virus is in the patient’s blood, the particular strain of the virus, and disease  
11 symptoms. The aim of cART is to reduce the viral load—i.e., the amount of virus per unit of blood or  
12 plasma, of patients to levels where commercial viral load tests cannot detect the presence of the virus  
13 (generally a concentration of lower than 50 HIV-1 RNA copies per mL of plasma). A cART treatment  
14 regimen can incorporate multiple standalone pills or a single pill coformulated with all drugs necessary  
15 for the regimen.

16 116. Gilead did not discover tenofovir. Tenofovir was discovered in the mid-1980s by the  
17 collaborative research efforts of scientists in Prague and Belgium. Although the anti-HIV properties  
18 of tenofovir were promising, it had a significant downside. When tenofovir is administered by mouth,  
19 very little of it is absorbed into the body.

20 117. Because an intravenous formulation had little sales potential, Gilead developed a  
21 prodrug form of tenofovir that can be taken orally. Prodrugs are pharmacologically inactive  
22 compounds that can be more efficiently absorbed into the bloodstream and then converted into the  
23 active form of the drug within the body.

24 118. One prodrug of tenofovir is tenofovir disoproxil (chemical name,  
25 bis(isopropylloxycarbonyloxymethyl)-PMPA or bis-POC PMPA). The fumaric salt of tenofovir  
26 disoproxil is tenofovir disoproxil fumarate, commonly known as TDF.

27 119. While TDF is able to be taken by mouth, the proportion of tenofovir that enters the cells  
28 is relatively low. In order to have the desired therapeutic effect, a high dose of TDF must be

1 administered. The standard dose of TDF for HIV treatment and prevention in adults is relatively  
2 large—300 mg taken once a day. A general principle of toxicology is that the “dose makes the  
3 poison”—i.e., larger doses are generally associated with higher rates of toxicity and adverse events.  
4 Tenovofir is no different.

5 120. Gilead has received FDA approval for five TDF-based drugs for the treatment of HIV.

6 121. On October 26, 2001, the FDA approved Gilead’s NDA 21356 for Viread (300 mg  
7 TDF) tablets for use in combination with other antiretroviral agents for the treatment of HIV-1  
8 infection. Gilead submitted limited clinical data supporting approval of the drug. Gilead had not  
9 completed Phase III clinical studies. Gilead excluded from its clinical trials people who had serious  
10 preexisting kidney dysfunction. And Gilead only studied Viread in treatment-experienced patients  
11 (those who had previously been treated for HIV). In 2008, the FDA approved an additional Viread  
12 indication for the treatment of Chronic Hepatitis B.

13 122. On August 2, 2004, the FDA approved Gilead’s NDA 21752 for Truvada tablets, which  
14 is a combination product containing 300 mg TDF (i.e., Viread) and 200 mg emtricitabine, for use in  
15 combination with other antiretroviral agents for the treatment of HIV-1 infection in adults. Neither of  
16 the active ingredients in Truvada was new. The FDA approved the Truvada application based primarily  
17 on data showing the fixed-dose combination drug was bioequivalent to its separate components. On  
18 July 16, 2012, the FDA approved an additional indication for the use of Truvada in combination with  
19 safer sex practices for pre-exposure prophylaxis (PrEP) to reduce the risk of sexually acquired HIV-1  
20 in adults at high risk.

21 123. On July 12, 2006, the FDA approved Gilead’s NDA 21937 for Atripla tablets, which is  
22 a combination product containing 300 mg TDF, 200 mg emtricitabine, and 600 mg efavirenz, for use  
23 alone as a complete regimen or in combination with other retroviral agents for the treatment of HIV-1  
24 infection in adults. Gilead submitted no clinical data in support of NDA 21937. None of the active  
25 ingredients in Atripla were new. Approval was based on a demonstration of bioequivalence between  
26 the individual components and the fixed-dose combination.

27 124. On August 10, 2011, the FDA approved Gilead’s NDA 202123 for Complera tablets,  
28 which is a fixed dose combination product containing 300 mg TDF, 200 mg emtricitabine, and 25 mg

1 rilpivirine, for use as a complete regimen for the treatment of HIV-1 infection in treatment-naïve adults  
2 (i.e., adults who had not been previously treated for HIV). None of the active ingredients in Complera  
3 were new. Gilead submitted no new clinical safety or efficacy trials in connection with NDA 20123.  
4 Approval was based on the results of bioequivalence studies comparing the combination product to  
5 the individual component drugs. In addition, the primary focus of the FDA’s safety and medical review  
6 of the Complera NDA was on rilpivirine, since that drug was the most recently approved component  
7 of the fixed dose combination Complera tablet.

8 125. On August 27, 2012, the FDA approved Gilead’s NDA 203100 for Stribild, which is a  
9 fixed dose combination product containing 300 mg TDF, 200 mg emtricitabine, 150 mg elvitegravir,  
10 and 150 mg cobicistat, for use as a complete regimen for the treatment of HIV-1 infection in treatment-  
11 naïve adults. Although elvitegravir and cobicistat had not been previously approved by the FDA, the  
12 FDA gave Gilead’s Stribild NDA a 10-month standard review because there were already multiple  
13 regimens available for treatment naïve patients including one pill, once-a-day regimens.

14 126. Before the FDA approved Viread in 2001, Gilead had discovered another prodrug  
15 version of tenofovir, which it originally called GS-7340 and which is now known as tenofovir  
16 alafenamide fumarate (“TAF”). TDF and TAF are two prodrug versions of the same parent drug,  
17 tenofovir, though TAF requires a dose more than ten times smaller than TDF to achieve the same  
18 therapeutic effect.

19 127. TAF differs from TDF in its penetration into target cells. Unlike TDF, which is  
20 converted into the parent drug tenofovir in the gastrointestinal tract, liver, and blood, TAF is not  
21 converted into tenofovir until it has been absorbed by the cell. This allows TAF to be more efficiently  
22 absorbed by “target cells”—i.e., cells that HIV infects or “targets”—compared to TDF. This more  
23 efficient absorption allows TAF to achieve far greater intracellular concentrations of the activated drug  
24 (tenofovir-diphosphate) in target cells than even a dramatically larger dose of TDF. This enhanced  
25 efficiency in absorption leads to plasma concentrations of tenofovir that are 90% lower than TDF,  
26 while still maintaining intracellular concentrations of activated drug in target cells that is the same or  
27 higher than TDF. The lowered plasma concentrations of tenofovir found with TAF result in reduced  
28 toxicity compared to TDF, making TAF safer to use than TDF.

1           128. On November 5, 2015, the FDA approved Gilead’s first TAF-based design—NDA  
2 207561 for Genvoya tablets, a fixed dose combination product which contains 10 mg TAF, 200 mg  
3 emtricitabine, 150 mg elvitegravir, and 150 mg cobicistat. Genvoya is indicated for the treatment of  
4 HIV-1 infection in adults and pediatric patients 12 years of age or older who have no antiretroviral  
5 treatment history or to replace the current antiretroviral regimen in those who are virologically  
6 suppressed (HIV-1 RNA less than 50 copies per mL) on a stable antiretroviral regimen for at least six  
7 months with no history of treatment failure and no known substitutions associated with resistance to  
8 the individual components of Genvoya. The TDF-based counterpart to Genvoya is Stribild. Genvoya  
9 is identical to Stribild except for the substitution of TAF for TDF.

10           129. On March 1, 2016, the FDA approved Gilead’s NDA 208351 for Odefsey tablets, which  
11 is a combination product containing 25 mg TAF, 200 mg emtricitabine, and 25 mg rilpivirine, for use  
12 as a complete regimen for the treatment of HIV-1 infection in patients 12 years of age and older as  
13 initial therapy in those with no antiretroviral treatment history with HIV-1 RNA less than or equal to  
14 100,000 copies per mL; or to replace a stable antiretroviral regimen in those who are virologically-  
15 suppressed (HIV-1 RNA less than 50 copies per mL of blood or plasma) for at least six months with  
16 no history of treatment failure and no known substitutions associated with resistance to the individual  
17 components of Odefsey. The TDF-based counterpart to Odefsey is Complera. Odefsey is identical to  
18 Complera except for the substitution of TAF for TDF.

19           130. On April 4, 2016, the FDA approved Gilead’s NDA 208215 for Descovy tablets, which  
20 is a fixed dose combination product containing 25 mg TAF and 200 mg emtricitabine, for use in  
21 combination with other antiretroviral agents, for treatment of HIV-1 infection in adults and pediatric  
22 patients 12 years of age or older. The TDF-based counterpart to Descovy is Truvada. Descovy is  
23 identical to Truvada except for the substitution of TAF for TDF. On October 3, 2019, the FDA  
24 approved an additional indication of Descovy for use in PrEP.

25           131. Upon information and belief, Gilead has not sought FDA approval of a standalone TAF  
26 drug product for the treatment of HIV. Viread, therefore, has no TAF-based counterpart for the  
27 treatment of HIV infection. Although the FDA approved Gilead’s NDA 208464 for Vemlidy (300 mg  
28 TAF) tablets on November 10, 2016, Gilead only sought approval to market Vemlidy for the treatment

1 of Hepatitis B infection in adults with compensated liver disease and thus cannot be marketed for the  
2 treatment of HIV.

3 **B. Gilead knew before Viread was approved that TDF posed a significant safety risk.**

4 132. Before Gilead’s first TDF product, Viread, received FDA approval in 2001, Gilead  
5 knew that two of its other antiviral drugs that are structurally similar to tenofovir caused significant  
6 kidney damage.

7 133. Tenofovir is a member of a class of molecules known as “acyclic nucleoside  
8 phosphonates.” Two of Gilead’s other antiviral drugs—cidofovir and adefovir<sup>5</sup>—are also acyclic  
9 nucleoside phosphonates.

10 134. Cidofovir injection, marketed as Vistide, was Gilead’s first commercial product. When  
11 the FDA approved Vistide in 1996, it carried a black box warning stating that renal impairment is the  
12 drug’s major toxicity and renal failure resulting in dialysis or contributing to death have occurred with  
13 as few as one or two doses of Vistide.

14 135. In December 1999, Gilead abandoned development of NRTI prodrug adefovir  
15 dipivoxil for the treatment of HIV after it proved so toxic to patients’ kidneys in the later stages of  
16 Phase III clinical trials. In Gilead’s clinical trial GS-408, 59% of patients demonstrated severe kidney  
17 toxicity after 72 weeks. One patient in the trial died due to multiorgan failure subsequent to kidney  
18 failure. Based on this experience, Gilead knew that adefovir dipivoxil was associated with delayed  
19 nephrotoxicity—meaning that its toxic effects might not be felt for some time after continued use.  
20 Gilead would later develop and market adefovir dipivoxil as Hepsera for treatment of hepatitis B virus  
21 infection. Critically, Gilead recognized that if it reduced the dose of adefovir dipivoxil from 120 mg—  
22 as used in trial GS-408 for the treatment of HIV—to 10 mg (the dose in Hepsera), an effective dose  
23 for hepatitis B virus treatment, the risk of nephrotoxicity is dramatically reduced.

24 136. Tenofovir has a nearly identical structure to adefovir, varying only by the presence of  
25 a methyl group (i.e., a carbon atom bound to three hydrogen atoms) in tenofovir, which replaces a  
26

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27 <sup>5</sup> Like tenofovir, only a prodrug of adefovir—adefovir dipivoxil—can be effectively administered  
28 orally.



1 hydrogen atom in adefovir. As Gilead recognized in its 10-K for the year ending December 31, 2000,  
2 due to its experiences with nephrotoxicity in Phase III clinical trials of adefovir dipovoxil, delayed  
3 toxicity issues similar to those experienced with adefovir dipivoxil could arise with TDF.

4 137. Gilead also knew that while prodrugs allow the drug to be efficiently absorbed into the  
5 bloodstream and then converted into an active form within the body, the conversion of the TDF  
6 prodrug into free tenofovir outside the cell, and the presence of high levels of free tenofovir in the  
7 blood, endangers the kidneys.

8 138. The primary purpose of the kidney is to filter out toxins and waste products from the  
9 blood, as well as help maintain the delicate balance of water, salts and other compounds in a person's  
10 blood. The functional unit of the kidney is the nephron, a microscopic structure that consists of two  
11 primary components: a renal "corsipucle" and a renal "tubule." On average, each kidney contains  
12 hundreds of thousands to millions of nephrons.

13 139. The renal corsipucle is the component of the nephron that directly filters the blood.  
14 Blood flows through a network of capillaries (small blood vessels) known as the glomerulus. The walls  
15 of these capillaries work as a filter, allowing certain compounds, as well as water, to pass through. The  
16 fluid that is filtered through the capillary walls in the glomerulus, known as the filtrate, is collected by  
17 a structure known as Bowman's capsule. One of the ways kidney function is measured is by the rate  
18 of blood that is filtered by the glomeruli. This is known as the glomerular filtration rate or "GFR."<sup>6</sup>

19 140. In Bowman's capsule, the filtrate is collected and drains into the other primary  
20 component of the nephron, the tubule. Glomerular filtration is highly effective at removing many  
21 toxins, but it also filters out many compounds, like water and electrolytes, that a person needs. In the  
22

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23 <sup>6</sup> GFR is not measured directly. Physicians typically estimate a patient's GFR by testing for serum  
24 creatinine or by calculating creatinine clearance. Creatinine is a waste product that is produced by the  
25 breakdown of muscle tissue and created at a relatively constant rate by the body. The kidneys filter  
26 creatinine from the blood into the urine, and reabsorb almost none of it. If the kidney is damaged, the  
27 ability of the body to remove creatinine from the blood can be reduced, resulting in high levels of  
28 creatinine in the blood. Serum creatinine is the amount of creatinine in the blood. Creatinine clearance  
is the rate at which the kidneys clear creatinine from the blood and is measured using the amount of  
creatinine present in urine over 24 hours. As renal function goes down, creatinine clearance also goes  
down.

1 tubule, the cells lining the tubule put these crucial, non-toxic compounds back into the blood, as well  
2 as filter out remaining toxins that glomerular filtration did not remove. After the filtrate exits the tubule,  
3 it drains into the bladder. This processed filtrate is urine.

4 141. This system of filtering the blood is extremely important and delicate. TDF primarily  
5 damages the nephron tubule, due to hyper-concentration of free tenofovir within the tubule cells of the  
6 nephron, which results in cell death or dysfunction. If the tubule cells are dysfunctional or dead, they  
7 are unable or less able to perform the vital function of filtering waste and/or toxins and reabsorbing  
8 beneficial compounds. Tubular injury can occur without a decline in a patient's glomerular filtration  
9 rate. Physicians must monitor other markers of kidney function—those that assess tubule function  
10 specifically, like serum phosphorus or urine glucose, to assess a patient's true kidney health.

11 142. Because tenofovir is renally eliminated, through glomerular filtration and proximal  
12 tubular secretion, patients are exposed to an increased concentration of tenofovir as the kidneys  
13 become damaged. Because exposure to an increased concentration of tenofovir increases toxicity,  
14 patients' kidney function must be monitored to ensure that their kidneys remain healthy enough to  
15 receive tenofovir.

16 143. Since scientists first synthesized TDF, studies have consistently shown that it could  
17 cause significant kidney and bone damage. For example, an animal study published in 1999 showed  
18 that high doses of tenofovir were associated with significant bone toxicity in both simian  
19 immunodeficiency virus (SIV, the non-human primate version of HIV) infected and uninfected rhesus  
20 macaques, with a quarter of the treated animals experiencing significant bone toxicity.

21 144. Gilead's preclinical studies of TDF showed that it could be toxic to kidneys and bones.  
22 Preclinical animal studies of TDF showed evidence of renal toxicity and that TDF exposure caused  
23 bone toxicity in the form of softening of the bones (osteomalacia) and reduced bone mineral density.  
24 Nephrotoxicity in animal models was related to dose as well as to duration of therapy.

25 145. Gilead also knew that the relatively high dose of TDF needed to achieve the desired  
26 therapeutic effect created a greater risk of toxic effects, and that bone and kidney toxicities were even  
27 more likely with the long-term use of TDF which was needed to combat a disease with no known cure.  
28

1 **C. Gilead’s knowledge of TDF toxicity grew as patients’ kidneys and bones were**  
2 **damaged by the TDF Drugs.**

3 146. As soon as Gilead began marketing Viread, patients started experiencing the  
4 nephrotoxic effects of TDF.

5 147. In November 2001, less than one month after Viread entered the market, the first  
6 published case of TDF-associated acute renal failure occurred. Thereafter, additional reports of TDF-  
7 associated kidney damage, including but not limited to Fanconi syndrome, renal failure, renal tubular  
8 dysfunction, and nephrogenic diabetes insipidus, began to appear in the medical literature. Many of  
9 those adverse events occurred in patients without preexisting kidney dysfunction.

10 148. Gilead was also seeing renal adverse events in its postmarketing safety data. In fact, the  
11 most common serious adverse events reported to Gilead were renal events, including renal failure,<sup>7</sup>  
12 Fanconi syndrome,<sup>8</sup> and serum creatinine increase.

13 149. In the first two years Viread was on the market, 40% of Viread adverse events reports  
14 received by Gilead were related to the renal/urinary system. This included 49 cases of increased  
15 creatinine, 16 cases of hypophosphatemia,<sup>9</sup> 42 cases of renal insufficiency, 51 cases of acute renal  
16 failure, 6 cases of chronic renal failure, and 32 cases of Fanconi syndrome. These numbers are far less  
17 than the true incidence of kidney damage experienced by Viread patients during this timeframe because  
18 postmarketing adverse events are underreported.

19 150. Gilead had to update its Viread labeling at least four times to describe the kidney  
20 damage patients experienced when taking TDF:

- 21 a. On December 2, 2002, Gilead added that patients had suffered renal impairment,  
22 including increased creatinine, renal insufficiency, kidney failure, and Fanconi  
23 syndrome, with Viread use;

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24 <sup>7</sup> When the kidney cannot filter the blood normally, a patient is usually diagnosed with “renal  
25 failure.”

26 <sup>8</sup> If damage to the tubule prevents the reabsorption of beneficial molecules from filtrate, the levels  
27 of these beneficial compounds can become dangerously low in the blood. This is known as Fanconi  
28 syndrome.

<sup>9</sup> Hypophosphatemia is a low level of phosphorus in the blood, which can indicate that the ability  
of the nephron tubule to reabsorb phosphorus from the filtrate is damaged.

- 1           b.     On October 14, 2003, Gilead added more kidney disorders, including acute  
2           renal failure, proximal tubulopathy,<sup>10</sup> and acute tubular necrosis;<sup>11</sup>
- 3           c.     On May 12, 2005, Gilead added nephrogenic diabetes insipidus;<sup>12</sup> and
- 4           d.     On March 8, 2006, Gilead added polyuria<sup>13</sup> and nephritis<sup>14</sup> to the list of renal  
            and urinary disorders that patients had experienced while on TDF.

5     As Gilead knew, injuries were not limited to patients with a history of renal dysfunction or other risk  
6     factors.

7           151.    Gilead’s long-term clinical data also demonstrated that TDF was damaging patients’  
8     bones. 48-week data showed greater decreases from baseline in bone mineral density at the lumbar  
9     spine and hip in patients taking Viread compared to those receiving other HIV drugs. At 144 weeks,  
10    there was a significantly greater decrease from baseline in bone mineral density at the lumbar spine in  
11    patients taking Viread compared to those receiving other HIV drugs, as well as significant increases  
12    in biochemical markers of bone turnover in patients taking Viread. And once Gilead began conducting  
13    clinical trials with Viread in adolescent and pediatric patients, the effects of TDF on adolescent and  
14    pediatric patients’ bones were similar to the effects seen with adult patients.

15          152.    After Gilead brought Truvada to market, the medical literature continued to identify  
16    cases of TDF-associated kidney damage, including in patients without preexisting renal dysfunction  
17    or co-administration with another nephrotoxic drug.

18          153.    Several new studies presented at the February 2006 Conference on Retroviruses and  
19    Opportunistic Infections (“CROI”) highlighted the frequency of nephrotoxicity in TDF-treated  
20    patients. In one study, CDC investigators analyzed longitudinal data from 11,362 HIV-infected  
21    patients, all of whom had GFR > 90mL/min at baseline, and found that treatment with TDF was  
22

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23           <sup>10</sup> Proximal tubulopathy refers to damage or dysfunction to the portion of the nephron tubule that  
            is closest to Bowman’s capsule.

24           <sup>11</sup> Acute tubular necrosis refers to the death of the cells that line the nephron tubule. This is  
25           associated with loss of kidney function.

26           <sup>12</sup> Nephrogenic diabetes insipidus refers to a condition characterized by the production of a large  
            amount of dilute urine as a result of kidney dysfunction. It is thought to be related to damage to the  
27           nephron tubule.

<sup>13</sup> Polyuria refers to the excessive production of urine.

28           <sup>14</sup> Nephritis refers to the inflammation of the kidneys.

1 significantly associated with mild and moderate renal insufficiency. In another, observational study of  
2 497 patients initiating TDF treatment, 17.5% developed renal dysfunction. The most severe declines  
3 in renal function were associated with TDF treatment as part of a boosted regimen.

4 154. In 2007, Gilead scientists published an article discussing the company's knowledge of  
5 TDF safety issues over the first four years of TDF treatment. Gilead reported that 0.5% of patients  
6 enrolled in a global expanded access program experienced a serious renal adverse event, including  
7 acute and chronic renal failure and Fanconi syndrome. A "serious" adverse event meant one resulting  
8 in hospitalization or prolongation of hospitalization, death, disability, or requiring medical intervention  
9 to prevent permanent impairment. Gilead also reported that through April 2005 the most common  
10 serious adverse events reported to Gilead's postmarketing safety database were renal events, including  
11 renal failure, Fanconi syndrome, and serum creatinine increase.

12 155. Although this Gilead article demonstrates the company's clear and early knowledge of  
13 serious TDF toxicity in a significant number of patients, it downplayed the incidence of TDF-  
14 associated renal toxicity. In its Medical Review of the Stribild NDA in 2012, the FDA noted the  
15 limitations of Gilead's data, including the short duration of treatment, the voluntary nature of adverse  
16 event reporting in some countries, and the fact that Gilead only assessed serious adverse events, and  
17 not renal events leading to drug discontinuation or non-serious renal adverse events. According to the  
18 FDA, any of these factors may have led to an underestimation of the true incidence of renal events of  
19 interest. The FDA similarly questioned Gilead's data on the incidence of renal adverse events based  
20 on its postmarketing safety database given the voluntary nature of reporting.

21 156. Moreover, even if Gilead's data accurately captured the percentage of patients  
22 experiencing serious renal adverse events (which it did not), it would still represent a very large number  
23 of patients who experienced significant health problems due to TDF toxicity. For example, in late  
24 2015, according to data from Symphony Health Solutions, nearly 500,000 people in the U.S. were  
25 ingesting TDF daily. Using Gilead's numbers, approximately 2,500 of those patients would likely  
26 experience severe kidney damage. Now that TDF has been on the market for nearly two decades, many  
27 thousands of patients have likely experienced severe TDF-induced kidney damage.

1           157. In May 2007, Gilead had to update its labeling to recognize that TDF-associated renal  
2 damage also caused osteomalacia (softening of the bones) in patients. In November 2008, Gilead  
3 modified the labeling to state that patients taking TDF had experienced osteomalacia due to proximal  
4 renal tubulopathy as bone pain, and that it might contribute to fractures.

5           158. In August 2008, Gilead had to update its labeling to recognize finally that TDF caused  
6 both “new onset” and “worsening” renal impairment—meaning, as Gilead knew years prior, that TDF  
7 was injuring patients’ kidneys even though they had no preexisting renal dysfunction.

8           159. During 2009–2011, studies continued to show that TDF caused a significant loss of  
9 renal function in HIV-infected patients.

10           160. Multiple articles described how the incidence of TDF-induced nephrotoxicity was  
11 underreported because studies often excluded patients who were most likely to exhibit nephrotoxic  
12 effects, including patients who combined TDF in a ritonavir-boosted regimen or with another  
13 nephrotoxic drug, older patients or those with advanced HIV disease, or those with mild baseline renal  
14 dysfunction. Notwithstanding selection bias that tended to hide TDF-associated kidney dysfunction,  
15 the evidence was clear that TDF caused renal tubular dysfunction in a significant percentage of HIV-  
16 infected patients.

17           161. In April 2012, researchers at the San Francisco Veterans’ Administration Medical  
18 Center and the University of California, San Francisco published their analysis of the medical records  
19 of more than 10,000 HIV-positive veterans in the national VA healthcare system, which is the largest  
20 provider of HIV care in the United States. The study authors found that for each year of tenofovir  
21 exposure, risk of protein in urine—a marker of kidney damage—rose 34%, risk of rapid decline in  
22 kidney function rose 11%, and risk of developing chronic kidney disease rose 33%. The risks remained  
23 after the researchers controlled for other kidney disease risk factors such as age, race, diabetes,  
24 hypertension, smoking, and HIV-related factors.

25           162. By the time it reviewed the Stribild NDA, the FDA stated that the safety profile of TDF  
26 was, by that point, “well-characterized in multiple previous clinical trials and is notable for TDF-  
27  
28

1 associated renal toxicity related to proximal renal tubule dysfunction and bone toxicity related to loss  
2 of bone mineral density and evidence of increased bone turnover.”<sup>15</sup>

3 163. With each passing year and each successive TDF product, Gilead learned even more  
4 about TDF’s toxicity. Despite this knowledge, Gilead repeatedly designed the TDF Drugs to contain  
5 TDF as the tenofovir delivery mechanism rather than safer TAF.

6 **D. Before Gilead developed Stribild, it knew that renal adverse events were more likely**  
7 **when patients took TDF as part of a boosted regimen.**

8 164. Before Gilead first started marketing Viread, it knew that patients’ exposure to  
9 tenofovir increases significantly when tenofovir is co-administered with a ritonavir-boosted protease  
10 inhibitor: the maximum concentration of tenofovir increased 31%; the minimum concentration of  
11 tenofovir increased 29%; and the area under the curve (the actual body exposure to the drug after dose  
12 administration) increased 34%.

13 165. In the first few years TDF was on the market, many reported cases of tenofovir-related  
14 renal damage involved patients taking TDF with a ritonavir-boosted protease inhibitor—leading  
15 authors to conclude that the risk of TDF-associated renal toxicity increased for patients on a boosted  
16 regimen. This is consistent with other patient populations at increased risk for renal toxicity, including  
17 those with low body weight and those taking another nephrotoxic drug; each is associated with higher  
18 levels of tenofovir exposure.

19 166. As Gilead recognized in the Precautions section of the July 1, 2004 Viread label:  
20 “[h]igher tenofovir concentrations could potentiate Viread-associated adverse events, including renal  
21 disorders.”<sup>16</sup>

22 167. Gilead further stated: “Atazanavir [another protease inhibitor] and lopinavir/ritonavir  
23 have been shown to increase tenofovir concentrations. The mechanism of this interaction is unknown.  
24 Patients receiving atazanavir and lopinavir/ritonavir and Viread should be closely monitored for

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25 <sup>15</sup> FDA Center for Drug Evaluation and Research Summary Review for NDA 203100 at 10,  
26 available at [https://www.accessdata.fda.gov/drugsatfda\\_docs/nda/2012/203100Orig1s000SumR.pdf](https://www.accessdata.fda.gov/drugsatfda_docs/nda/2012/203100Orig1s000SumR.pdf).

27 <sup>16</sup> Viread (tenofovir disoproxil fumarate) Tablets label at 17, available at  
28 [https://www.accessdata.fda.gov/drugsatfda\\_docs/label/2004/21356slr010\\_viread\\_lbl.pdf](https://www.accessdata.fda.gov/drugsatfda_docs/label/2004/21356slr010_viread_lbl.pdf).



1 Viread-associated adverse events. Viread should be discontinued in patients who develop Viread-  
2 associated adverse events.”<sup>17</sup>

3 168. Case study authors similarly called for careful monitoring of patients taking TDF in a  
4 boosted regimen, given the frequency of renal damage in such patients.

5 169. A 2008 Journal of Infectious Diseases article reported that the odds of developing  
6 significant renal function reduction were 3.7 times higher for patients receiving a regimen containing  
7 tenofovir plus ritonavir-boosted protease inhibitor than for those receiving tenofovir plus  
8 nonnucleoside reverse transcriptase inhibitor-based therapy, even after adjusting for viral load.

9 **E. Before Gilead developed each of the TDF Drugs, it knew that TAF was less toxic to**  
10 **kidneys and bones than TDF.**

11 170. Before the FDA approved Viread, Gilead had already discovered a different design for  
12 an orally available version of tenofovir that is more potent than TDF, meaning that it can be  
13 administered at a significantly lower dose with fewer side effects than TDF.

14 171. Unlike TDF, TAF is not converted into tenofovir until it has been absorbed by the cell.  
15 As a result, TAF is more efficiently absorbed by the cells HIV targets compared to TDF. This more  
16 efficient absorption allows TAF to achieve far greater intracellular concentrations of the activated drug  
17 (tenofovir-diphosphate) in target cells than even a dramatically larger dose of TDF, while achieving  
18 plasma concentrations of tenofovir that are 90% lower than TDF. The lowered plasma concentrations  
19 of tenofovir found with TAF result in reduced toxicity compared to TDF, making TAF safer to use  
20 than TDF.

21 172. On July 21, 2000, Gilead filed a provisional patent application which described TAF  
22 (then called GS-7340) as 2–3 times more potent than TDF while providing 10 times the intracellular  
23 concentration of tenofovir than TDF. Gilead also demonstrated that dosing with TAF resulted in  
24 dramatically higher concentrations of drug in all organs except the kidneys and the liver, compared  
25 with TDF. This suggested that TAF is uniquely able to target cells that HIV infects, while not  
26 concentrating in the kidney.

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<sup>17</sup> *Id.*

1           173. In a 2001 paper, Gilead scientists described the remarkable results achieved when  
2 studying the metabolism of TAF in blood. The paper, “Metabolism of GS-7430, A Novel Phenyl  
3 Monophosphoramidate Intracellular Prodrug of PMPA, In Blood,” compared the distribution of the  
4 active drug tenofovir in blood cells and plasma after exposure to either GS-7430 or tenofovir disoproxil  
5 (which was still in clinical development at the time of the study). What Gilead found was that one need  
6 only *one thousandth of the dose* of GS-7340 compared to tenofovir to achieve the same level of  
7 inhibition of HIV replication in vitro. Gilead also found that one need to use only one tenth the dose  
8 of GS-7340 compared to TDF to reach the same levels of active tenofovir inside cells.

9           174. Gilead researchers presented the results of its GS-7340 study at a February 2002  
10 Conference on Retroviruses. John Milligan, then Gilead’s Vice President of Corporate Development  
11 and currently its President and Chief Executive Officer, said that Gilead’s goal with GS-7340 was to  
12 deliver a more potent version of tenofovir that can be taken in lower doses, resulting in better antiviral  
13 activity and fewer side effects. Milligan said that “there’s a great need to improve therapy for HIV  
14 patients.”<sup>18</sup>

15           175. Gilead’s preclinical studies of TAF also indicated that TAF is less likely to accumulate  
16 in renal proximal tubules than TDF, supporting the potential for an improved renal safety profile.

17           176. Gilead’s 2001 10-K highlighted the benefits of GS-7340 over Viread: “Both GS 7340  
18 and Viread are processed in the body to yield the same active chemical, tenofovir, within cells.  
19 However, the chemical composition of GS 7340 may allow it to cross cell membranes more easily than  
20 Viread, so that with GS 7340, tenofovir may be present at much higher levels within cells. As a result,  
21 GS 7340 may have greater potency than Viread and may inhibit low-level HIV replication in cells that  
22 are otherwise difficult to reach with reverse transcriptase inhibitors.”<sup>19</sup>

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26           <sup>18</sup> Special Coverage: 9th Conference on Retroviruses – New drugs, new data hold promise for next  
27 decade of HIV treatment, AIDS Alert, May 1, 2002.

28           <sup>19</sup> Gilead Sciences, Inc. Form 10-K for the fiscal year ended December 31, 2001, at 13, available  
at <https://www.sec.gov/Archives/edgar/data/882095/000091205702011690/a2073842z10-k.htm>.

1 177. At the end of the first quarter of 2002, Gilead told investors that it had initiated Phase  
2 I/II testing of GS-7340. In an earnings call, Gilead stated that it had initiated a dose escalation study  
3 for GS-7340 through which Gilead intended to prove that GS-7340 was more potent than Viread,  
4 meaning that it could be administered at a safer, lower dose.

5 178. In an October 28, 2003 earnings call, Gilead told analysts that data from the ongoing  
6 Phase I/II study of GS-7340 “look[ed] promising.”<sup>20</sup>

7 179. In December 2003, Mark Perry, then Gilead’s Executive Vice President of Operations,  
8 told investors that Gilead was “excited” about GS-7340. Gilead expected GS-7340 to achieve “more  
9 potency at lower doses and increase the therapeutic index for” tenofovir.<sup>21</sup> The “therapeutic index” is  
10 a comparison of the amount of a therapeutic agent that causes the therapeutic effect compared to the  
11 amount that causes toxicity.

12 180. In January 2004, Gilead repeatedly referred to the positive results from clinical studies  
13 of GS-7340 in calls with analysts and disclosures to the investment industry. On a January 29, 2004  
14 earnings call, Gilead stated that, based on these positive results, it was designing a Phase II program  
15 for GS-7340 to determine the safety and efficacy of the compound in treatment naïve patients and in  
16 highly treatment experienced patients.

17 181. At a May 2004 Deutsche Bank Securities Healthcare Conference, Gilead said that it  
18 knew GS-7340 could be dosed at a fraction of the Viread dose and give a greater antiviral response.

19 182. However, on October 21, 2004, shortly after the FDA approved Truvada, Gilead  
20 abruptly announced that it would abandon its GS-7340 design. It stated:

21 Earlier this year as a result of positive data from a small phase I/II study  
22 of GS 7340, we began designing a phase II program to determine the  
23 safety and efficacy of the compound in treatment-naïve patients and in  
24 highly treatment experienced patients. Since that time we have  
25 witnessed the increasing use of Viread across all HIV patient

26 <sup>20</sup> Event Brief of Q3 2003 Gilead Sciences Earnings Conference Call – Final, FD (Fair Disclosure)  
Wire, Oct. 28, 2003.

27 <sup>21</sup> Gilead Sciences at Harris Nesbitt Gerard Healthcare Conference 2003 – Final, FD (Fair  
28 Disclosure) Wire, Dec. 11, 2003.

1 populations, and we have also received approval for and launched  
2 Truvada.

3 Based on our internal business review and ongoing review of the  
4 scientific data for GS 7340, we came to the conclusion that it would be  
5 unlikely that GS 7340 would emerge as a product that could be highly  
6 differentiated from Viread.<sup>22</sup>

7 183. Prior to its October 2004 announcement, Gilead never indicated that there might be an  
8 issue with differentiating GS-7340 from Viread or expressed any other negative view of the prospects  
9 of GS-7340. To the contrary, Gilead repeatedly touted the positive results of preclinical and clinical  
10 studies of GS-7340 and the benefits of GS-7340 over Viread.

11 184. Gilead's "internal business review" was the real driver of its decision to abandon a  
12 design it knew to be safer than Viread.

13 185. In May 2005, despite Gilead's misrepresentation that GS-7340 was not worth pursuing,  
14 Gilead scientists reported the favorable results they achieved with GS-7340, including its benefits over  
15 Viread, in an issue of Antimicrobial Agents and Chemotherapy. Reuters Health News covered the  
16 article:

17 After oral administration of GS 7340 to dogs, tenofovir concentrations  
18 were 5- to 15-fold higher in lymph nodes than after tenofovir DF  
19 administration, the researchers note. Except for kidney and liver, tissue  
20 concentrations of tenofovir were generally higher after GS 7340 than  
21 after tenofovir DF administration.

22 "The high concentrations of tenofovir observed in lymphatic tissues  
23 after oral administration of GS 7340 are expected to result in increased  
24 clinical potency relative to tenofovir DF and could have a profound  
25 effect on the low-level virus replication that occurs in tissues with  
26 suboptimal drug exposure during HAART," the authors conclude.

27 "With GS 7340," the researchers add, "it should be possible to reduce  
28 the total dose of tenofovir, thereby minimizing systemic exposure, while  
at the same time increasing antiviral activity."<sup>23</sup>

186. Moreover, even though Gilead purportedly abandoned TAF, Gilead filed seven  
applications for patents on TAF between 2004 and 2005.

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26 <sup>22</sup> <https://www.gilead.com/news/press-releases/2004/10/gilead-discontinues-development-of-gs-9005-and-gs-7340-company-continues-commitment-to-research-efforts-in-hiv>.

27 <sup>23</sup> Novel tenofovir prodrug preferentially targets lymphatic tissue, Reuters Health Medical News,  
28 June 1, 2005.

1 187. Despite recognizing the safety benefits of TAF, Gilead kept its GS-7340 design on the  
2 shelf for years—knowingly exposing patients taking its TDF-containing drug products to greater risks  
3 of kidney and bone toxicity.

4 188. It was not until approximately October 2010—*six years* after Gilead shelved its safer  
5 tenofovir prodrug and after Gilead designed combination products Truvada and Atripla to contain TDF  
6 rather than safer TAF—that Gilead renewed development of the safer TAF design.

7 189. Once Gilead renewed development of its TAF design, it again touted the benefits of  
8 TAF over TDF—as if it had never falsely claimed that TAF could not be “highly differentiated” from  
9 TDF.

10 190. Despite having discovered the benefits of TAF before 2001, Gilead repeatedly  
11 misrepresented TAF as “new.” The benefits of TAF that Gilead described in 2010 and beyond were  
12 known to Gilead years earlier. And the clinical results Gilead achieved with TAF would have been  
13 achieved years earlier but for Gilead’s decision to slow-walk and withhold the safer TAF design purely  
14 for financial gain.

15 191. In an October 19, 2010 earnings call, Gilead’s Chief Scientific Officer Norbert  
16 Bischofberger explained to investors how GS-7340’s safety profile was superior to Viread, particularly  
17 with respect to kidney and bone toxicity:

18 7340 is a prodrug that actually delivers more active antivirally active  
19 components into the compartment in the body where it’s really needed  
20 which means lymphocytes mostly. What that means is you can take a  
21 lower dose, and actually our clinical study would indicate 1/6th to 1/10th  
22 the Viread dose and you would actually get higher efficacy with less  
23 exposure. So we’re looking at this to be used in sub population where  
24 people have a concern with Viread, and the one with renal impairment,  
25 elderly people that have reduced renal function, and the other population  
26 will be adults that have preexisting or suspicion of bone disease,  
27 osteoporosis, and that’s where we are initially going to position the  
28 compound.<sup>24</sup>

24 192. Giving a statement at the Capital Markets Healthcare Conference on March 2, 2011,  
25 John Milligan, then Gilead’s President and Chief Operating Officer, told investors the real reason  
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27 <sup>24</sup> Q3 2010 Gilead Sciences Earnings Conference Call – Final, FD (Fair Disclosure) Wire, Oct. 19,  
28 2010.

1 Gilead previously refused to design its products to contain safer GS-7340—it did not want to hurt TDF  
2 sales by stepping on its TDF marketing message:

3 One of the reasons why we were concerned about developing 7340 was  
4 we were trying to launch Truvada versus Epzicom<sup>25</sup> at that time. And to  
5 have our own study suggesting that Viread wasn't the safest thing on the  
6 market, which it certainly was at the time. ... It didn't seem like the best.  
7 It seemed like we would have a mix[ed] message. And in fact that Viread  
8 story is split out to be a fairly safe product over the years. There are some  
9 concerns still on kidney toxicity and there are some concerns about bone  
10 toxicity.<sup>26</sup>

11 193. Milligan called GS-7340 a “kinder, gentler version of Viread.”<sup>27</sup>

12 194. At the March 14, 2011 Roth Capital Partners Growth Stock Conference, Gilead stated  
13 that the ability to dose GS-7340—the “kinder, gentler” version of Viread—lower than Viread was  
14 important because GS-7340 is safer, particularly as patients take the medication for the long term.<sup>28</sup>

15 195. At the NASDAQ OMS 26th Investor Program in June 2011, Gilead described GS-7340  
16 as a “very exciting product” which was then in dosing studies to determine just how low GS-7340  
17 could be dosed. Gilead explained the benefit of lower dosing to aging patients and those who have  
18 been on the medication for a long time:

19 And we had recently this year had presented 14-day monotherapy results  
20 from a study we had done at 50 and 100 mg of 7340 versus the 300 mg  
21 of Viread today. And what we have shown was viral load reductions  
22 were greater in the lower doses of 7340 and the plasma tenofovir levels  
23 were actually much reduced from what we see with Viread.

24 We're currently now in a Phase Ib looking at even lower doses. We are  
25 studying 8 mg, 25 and 40 mg of GS-7340. This is important because as  
26 the age of the AIDS population continues to increase, as the median age  
27 is now just about 50 years old, you get issues with aging such as renal  
28 function and bone mineral density that can become bigger issues for

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23 <sup>25</sup> Epzicom is a combination medication, containing abacavir and lamuvidine, indicated to treat  
24 HIV sold by Gilead's competitor GlaxoSmithKline, now Viiv Healthcare, Ltd. The FDA approved  
25 both Epzicom and Truvada in August 2004.

26 <sup>26</sup> Gilead Sciences at RBC Capital Markets Healthcare Conference – Final, FD (Fair Disclosure)  
27 Wire, Mar. 2, 2011.

28 <sup>27</sup> *Id.*

<sup>28</sup> Gilead Sciences at Roth Capital Partners OC Growth Stock Conference – Final, FD (Fair  
Disclosure) Wire, Mar. 14, 2011.

1                   these patients and we think that it's a currently unmet medical need to  
2                   address those concerns of the aging population in HIV.<sup>29</sup>

3 Yet, Gilead knew well before 2010–2011 that people with HIV were living longer lives. Since the  
4 introduction of effective combination antiretroviral therapy in late 1995 and early 1996, many people  
5 with HIV have lived a normal lifespan.

6           196.    On January 24, 2012, Gilead announced that it had begun Phase II clinical trials of GS-  
7 7340 and identified a dose that is ten times lower than Viread while providing greater antiviral efficacy.

8           197.    On October 31, 2012, Gilead announced that a Phase II clinical trial evaluating TAF  
9 met its primary objective. The study compared a once-daily single tablet regimen containing TAF 10  
10 mg/elvitegravir 150 mg/cobicistat 150 mg/emtricitabine 200 mg with Stribild (TDF 300  
11 mg/elvitegravir 150 mg/cobicistat 150 mg/emtricitabine 200 mg) among treatment-naïve adults.  
12 Compared to Stribild, the TAF-containing regimen demonstrated better markers of bone and kidney  
13 effects that were statistically significant. The study showed that TAF is effective at a fraction of the  
14 dose of Viread and provides safety advantages.

15           198.    In January 2013, Gilead began Phase III clinical development of TAF. Announcing the  
16 beginning of Phase III development, then-CEO Martin mischaracterized TAF as “new.”<sup>30</sup>

17           199.    Gilead finally submitted an application to market its first TAF-containing product,  
18 Genvoya, to the FDA on November 5, 2014 (though it could have done so years earlier had it not  
19 shelved the safer design to make more money).

20           200.    When the FDA approved Genvoya on November 5, 2015, John C. Martin, then  
21 Chairman and CEO of Gilead, announced that “there is still a need for new treatment options that may  
22 help improve the health of people as they grow older with the disease.”<sup>31</sup> Martin misrepresented that  
23 TAF was “new” and concealed that Gilead had known about this safer version of tenofovir for over a  
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25           <sup>29</sup> Gilead Sciences Inc. at NASDAQ OMS 26th Investor Program – Final, FD (Fair Disclosure)  
26 Wire, June 21, 2011.

27           <sup>30</sup> Gilead Sciences at JPMorgan Global Healthcare Conference – Final, FD (Fair Disclosure) Wire,  
28 Jan. 7, 2013.

<sup>31</sup> US FDA approvals Gilead’s Single Table Regiment Genvoya for Treatment of HIV-1 Infection,  
Business Wire, Nov. 5, 2015.



1 decade but purposefully withheld it from the market solely to protect its monopoly profits and extend  
2 Gilead's ability to profit on TAF regimens for the next decade or more.

3 **F. Gilead withheld its safer TAF design to protect its TDF sales and extend profits on its**  
4 **HIV franchise.**

5 201. Gilead first developed and sought FDA approval for its TDF line of products even  
6 though it knew TAF was safer.

7 202. Then Gilead shelved its TAF design in 2004 because it did not want to hurt TDF sales  
8 by admitting that TDF is unreasonably and unnecessarily unsafe.

9 203. Gilead continued to withhold its TAF design for the next decade. Gilead knew that by  
10 withholding the safer TAF design, it could extend the longevity of its HIV drug franchise and make  
11 billions two times over: first, with TDF medications until TDF patent expiration, which would begin  
12 by no later than 2018, and second, with TAF medications until TAF patent expiration as late as 2032.

13 204. But Gilead also knew that timing was key. While it wanted to delay the TAF-designed  
14 products to maximize profits on its TDF Drugs, it also knew that it had to get its TAF-based products  
15 on the market sufficiently in advance of TDF patent expiration. Gilead knew that once doctors switched  
16 their patients from TDF to TAF, doctors would be highly unlikely to switch their patients back to TDF-  
17 based regimens once generic TDF became available. By converting TDF prescriptions to TAF  
18 prescriptions (which cannot be automatically substituted at the pharmacy counter with a generic TDF  
19 product), Gilead could save a substantial percentage of sales from going generic.

20 205. Only once Gilead had realized billions in sales through most of the TDF patent life—  
21 having built Viread sales up to \$1.1 billion and the TDF portfolio up to \$11 billion in sales in 2015—  
22 did Gilead create TAF-based versions of its prior TDF Drugs and work to convert its TDF Drug sales  
23 to TAF drug sales.

24 206. Once TAF entered the market, Gilead successfully convinced a large percentage of  
25 doctors to switch from TDF-based to TAF-based regimens by highlighting TAF's improved safety  
26 profile with respect to bone and kidney toxicity—the very benefits that Gilead could have and should  
27 have incorporated into its product design from the beginning but withheld from patients with each  
28 successive TDF Drug for over a decade.

1           207. In addition, by delaying the filing of an NDA for its first TAF product, for which it  
2 received five-year regulatory exclusivity, Gilead knew that it was also delaying the entry of any generic  
3 manufacturer who could successfully challenge Gilead’s TAF patents as invalid or not infringed. Due  
4 to its regulatory exclusivity, no generic manufacturer can even file an ANDA with a Paragraph IV  
5 certification seeking to market a generic version of Genvoya until November 2019 and then, upon  
6 Gilead’s suit against the generic, Gilead can automatically delay generic entry by up to an additional  
7 30 months.

8           208. Gilead boasted about TAF’s potential to extend its HIV franchise, which has been the  
9 core of its business.

10           209. Milligan told investment analysts in 2010 that the safer TAF-designed products could  
11 replace the whole TDF franchise which would provide a “great deal of longevity . . . .”<sup>32</sup> Milligan  
12 similarly told investors at a Deutsche Bank Securities Inc. Healthcare Conference in May 2011 that  
13 TAF was a “new” drug that “could potentially bring quite a bit of longevity to the Gilead portfolio.”<sup>33</sup>

14           210. As Milligan told analysts at a Goldman Sachs Global Healthcare Conference in June  
15 2011, Gilead would be “offering a product called 7340, which we believe is a lower dose, better safety  
16 profile, more potent, differentiated drug relative to Viread. And so, our ability to develop and get that  
17 onto the market prior to [TDF] patent expiration will be key to us, to maintain the longevity.”<sup>34</sup>

18           211. Gilead withheld its safer TAF design until it suited Gilead’s bottom line at the expense  
19 of patients’ health.

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25           <sup>32</sup> Gilead Sciences at 22nd Annual Piper Jaffray Healthcare Conference – Final, FD (Fair  
Disclosure) Wire, Nov. 30, 2010.

26           <sup>33</sup> Gilead Sciences Inc. at Deutsche Bank Securities Inc. Health Care Conference – Final, FD (Fair  
Disclosure) Wire, May 3, 2011.

27           <sup>34</sup> Gilead Sciences Inc. at Goldman Sachs Global Healthcare Conference – Final, FD (Fair  
Disclosure) Wire, June 7, 2011.

1 **G. Gilead knowingly designed its TDF drugs to be unreasonably dangerous and unsafe to**  
2 **patients' kidneys and bones.**

3 212. Despite knowing that TDF causes kidney and bone damage and that TAF is safer for  
4 patients' kidneys and bones, Gilead designed the TDF Drugs to contain TDF rather than safer TAF as  
5 the orally available version of tenofovir.

6 213. In addition to withholding the safer TAF design of Stribild, Gilead made Stribild even  
7 more dangerous to patients when it formulated the drug to include 300 mg TDF with cobicistat.

8 214. Stribild is a fixed dose combination containing 300 mg TDF, emtricitabine, elvitegravir,  
9 and cobicistat. Elvitegravir is an integrase strand transfer inhibitor (INSTI). Cobicistat has no  
10 antiretroviral effect; it is a pharmacoenhancer that increases the plasma concentrations of elvitegravir.  
11 Regimens that include a pharmacoenhancer like cobicistat are called "boosted" regimens.

12 215. Gilead's early development of elvitegravir used ritonavir as the boosting agent. Gilead  
13 knew before Viread entered the market in 2001 that coadministration of TDF with ritonavir-boosted  
14 lopinavir significantly increased tenofovir concentrations. By 2004, the Viread label warned doctors  
15 to carefully monitor patients taking both TDF and ritonavir/lopinavir. And scientific literature  
16 published years before Gilead developed Stribild indicated that renal toxicity associated with TDF was  
17 more frequent in patients receiving TDF in combination with boosted protease inhibitors.

18 216. Although Gilead ultimately replaced ritonavir with cobicistat as the boosting agent in  
19 Stribild, the two boosters are structurally similar. Gilead learned during development of Stribild that  
20 tenofovir levels in patients receiving Stribild (TDF with cobicistat) were similar to the tenofovir levels  
21 experienced in patients who took TDF in combination with a ritonavir-boosted protease inhibitor.  
22 Gilead knew that tenofovir levels are 25–35% higher when combining TDF in a boosted regimen.

23 217. Despite knowing that combining TDF with cobicistat would significantly increase  
24 tenofovir levels in patients' blood, Gilead did not reduce the dose of TDF when it formulated Stribild.  
25 Gilead's Stribild clinical trials showed an increased rate of serious renal adverse events that led to  
26 treatment discontinuation. Stribild is even more toxic to patients' kidneys and bones than unboosted  
27 TDF.

1           218. When Gilead formulated its first TAF-based drug, Genvoya—which was Stribild with  
2 TAF in place of TDF—Gilead reduced the dose of TAF to account for the fact that cobicistat increases  
3 tenofovir concentrations. A Phase I TAF dosing trial showed that TAF 25 mg was the optimal dose to  
4 achieve activity similar to a 300 mg dose of TDF. When formulating Genvoya, however, Gilead further  
5 reduced the TAF dose to 10 mg because, when given with cobicistat, TAF 10 mg achieves exposure  
6 similar to TAF 25 mg when given without cobicistat.

7           219. Gilead knew to reduce the dose of TAF to 10 mg when given with cobicistat before  
8 Gilead sought FDA approval for Stribild. Pursuant to Gilead’s Phase I study GS-US-311-0101,  
9 conducted between June 6, 2011 and August 31, 2011, Gilead determined that co-administration of  
10 TAF with cobicistat significantly increased the body’s exposure to TAF and active tenofovir. It found  
11 that the body’s drug exposure across time (known as the “area under the curve” in pharmacokinetic  
12 parlance) increased 2.7-fold with respect to TAF and 3.3-fold with respect to tenofovir when given  
13 with cobicistat. Gilead addressed this drug interaction by reducing the dose of TAF from 25 mg to 10  
14 mg in the Genvoya tablet. When Gilead began its study GS-US-292-0103 on October 5, 2011, it used  
15 a TAF dose of 10 mg in the Genvoya combination because “the TAF dose is 10 mg when combined  
16 with COBI in the [fixed dose combination] versus 25 mg when not combined with COBI.”<sup>35</sup>

17           220. Critically, Gilead reduced the TAF dose when formulating Genvoya even though  
18 patients’ plasma exposure to tenofovir when taking TAF is already significantly less than their  
19 tenofovir exposure when taking TDF due to TAF’s enhanced entry and absorption into target cells.

20           221. Moreover, in July 2011, months before Gilead submitted its Stribild NDA to the FDA,  
21 Gilead sought FDA approval of reduced doses of TDF (Viread) in 150 mg, 200 mg, and 250 mg  
22 strengths for the treatment of HIV-1 infection in pediatric patients ages 2-12. That same month, Gilead  
23 also sought approval of Viread 40 mg oral powder for the treatment of HIV-1 infection in pediatric  
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26           <sup>35</sup> FDA Center for Drug Evaluation and Research, Genvoya NDA 207561 Clinical Pharmacology  
27 and Biopharmaceutics Review(s) at 32, available at [https://www.accessdata.fda.gov/drugsatfda\\_docs/nda/2015/207561Orig1s000ClinPharmR.pdf](https://www.accessdata.fda.gov/drugsatfda_docs/nda/2015/207561Orig1s000ClinPharmR.pdf).  
28

1 patients 2 years and older.<sup>36</sup> The FDA approved the lower dosage strength TDF tablets and oral powder  
2 in early January 2012—over six months before the FDA approved the Stribild NDA. There was no  
3 reason Gilead could not have similarly reduced the dose of TDF in Stribild—when it knew that failing  
4 to reduce the dose would increase the drug’s toxicity.

5 222. As a direct result of Gilead’s decision not to use a safer design, Stribild proved to be  
6 toxic to patients’ kidneys and bones.

7 223. In the clinical trials of Stribild over 48 weeks, eight patients in the Stribild group  
8 compared to one in the comparator groups discontinued the drug study due to renal adverse events,  
9 including kidney failure and Fanconi Syndrome. Four of these patients developed laboratory findings  
10 consistent with proximal renal tubular dysfunction. The laboratory findings in these four subjects  
11 improved but did not completely resolve upon discontinuation of Stribild. The signature toxicity of the  
12 Stribild group was proximal renal tubular dysfunction.

13 224. The FDA’s Medical Review described the notable adverse events that led to study  
14 discontinuation more frequently in the Stribild group as a “constellation of renal [Adverse Events] (e.g.  
15 renal failure, Fanconi syndrome, and increased blood creatinine).”<sup>37</sup>

16 225. According to the FDA, the “most important safety risks of Stribild use are associated  
17 with two key toxicities: renal adverse events (particularly proximal renal tubular dysfunction) and bone  
18 toxicity. Both of these events have previously been associated with use of TDF . . . .”<sup>38</sup>

19 226. The FDA noted that “published literature suggests that the renal toxicity associated with  
20 TDF may be more frequent in patients receiving TDF in combination with PIs, including ritonavir,”<sup>39</sup>  
21 and the “review team remains concerned that COBI may exacerbate the known renal toxicity  
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23 <sup>36</sup> In the EU, Gilead recommends that adults with creatinine clearance below 50 mL/min take  
24 Viread oral powder to reduce their doses of TDF.

25 <sup>37</sup> FDA Center for Drug Evaluation and Research Stribild NDA 203100 Medical Review at 9,  
26 available at [https://www.accessdata.fda.gov/drugsatfda\\_docs/nda/2012/203100Orig1s000MedR.pdf](https://www.accessdata.fda.gov/drugsatfda_docs/nda/2012/203100Orig1s000MedR.pdf).

27 <sup>38</sup> FDA Center for Drug Evaluation and Research Stribild NDA 203100 Cross Discipline Team  
28 Member Review at 17, available at [https://www.accessdata.fda.gov/drugsatfda\\_docs/nda/2012/203100Orig1s000CrossR.pdf](https://www.accessdata.fda.gov/drugsatfda_docs/nda/2012/203100Orig1s000CrossR.pdf).

<sup>39</sup> *Id.* at 18.

1 associated with TDF.”<sup>40</sup> In its Summary Review of the Stribild NDA, the FDA concluded: “it appears  
2 that the combination of COBI with TDF may have more renal toxicity than TDF alone as highlighted  
3 in the clinical reviews and the renal consult.”<sup>41</sup> The FDA expressed concern that the data reviewed for  
4 the Stribild NDA represented an increased hazard signal even compared to regimens containing TDF  
5 combined with another boosting agent.

6 227. Due to Stribild’s renal toxicity, Stribild use is restricted in patients with impaired renal  
7 function. Stribild’s label states that doctors should not initiate Stribild in patients with estimated  
8 creatinine clearance below 70 mL per minute, and Stribild should be discontinued if estimated  
9 creatinine clearance declines below 50 mL per minute as dose interval adjustment cannot be achieved.  
10 Moreover, in the EU—though not in the U.S.—Gilead warns doctors that Stribild should not be  
11 initiated in patients with creatinine clearance below 90 mL per minute unless, after review of all  
12 available treatment options, it is considered that Stribild is the preferred treatment for the individual  
13 patient.

14 228. Gilead’s post-approval Stribild data continued to show renal adverse effects. In the  
15 clinical trials of Stribild over 96 weeks, two additional Stribild patients discontinued the study due to  
16 a renal adverse reaction. In the clinical trials of Stribild over 144 weeks, three additional Stribild  
17 patients discontinued the study due to a renal adverse reaction. In addition, one patient who received  
18 ritonavir-boosted atazanavir plus Truvada (i.e., a boosted TDF regimen) in the comparator group  
19 developed laboratory findings consistent with proximal renal tubular dysfunction leading to drug  
20 discontinuation after week 96.

21 **H. Gilead obtained FDA approval for its TAF-based products by relying on studies**  
22 **demonstrating TAF’s superiority over TDF.**

23 229. In seeking FDA approval of its first TAF-based antiviral drug product, Genvoya, Gilead  
24 told the FDA that TAF has better entry and concentration in HIV-target cells than TDF, thereby  
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27 <sup>40</sup> *Id.*

28 <sup>41</sup> FDA Center for Drug Evaluation and Research Stribild NDA 203100 Summary Review at 16,  
available at [https://www.accessdata.fda.gov/drugsatfda\\_docs/nda/2012/203100Orig1s000SumR.pdf](https://www.accessdata.fda.gov/drugsatfda_docs/nda/2012/203100Orig1s000SumR.pdf).

1 allowing the administration of smaller doses and reducing systemic tenofovir exposure, renal toxicity  
2 and bone effects, without sacrificing efficacy.

3 230. Gilead established during Phase I clinical development of TAF that doses as low as 8  
4 to 25 mg of TAF had antiviral activity comparable to the approved dose of TDF 300 mg. Gilead  
5 selected the 25 mg TAF dose as the optimal dose for Phase 2 and 3 studies based on its antiviral  
6 activity. Gilead included TAF 10 mg in Genvoya because it provides similar exposures to TAF 25 mg  
7 when coadministered with cobicistat.

8 231. Gilead supported the safety and efficacy of Genvoya with two clinical trials that  
9 compared Genvoya to its TDF-containing counterpart, Stribild. In those studies, a 10 mg oral dose of  
10 TAF in Genvoya resulted in greater than 90% lower concentrations of active tenofovir in plasma as  
11 compared to a 300 mg oral dose of TDF in Stribild. Due to these lower plasma concentrations, Gilead  
12 expected that the kidney and bone toxicities associated with TDF would occur at a lower rate with  
13 TAF. And, as expected, the trials showed that rates of biomarkers for tenofovir-induced renal and bone  
14 toxicities were less with Genvoya than Stribild.

15 232. In seeking FDA approval of Genvoya in 2014, Gilead relied on TAF data obtained by  
16 Gilead more than a decade earlier—before the company abruptly shelved its TAF design in pursuit of  
17 more money. Gilead submitted in its Genvoya NDA data from: (a) early clinical development showing  
18 that TAF provided greater intracellular distribution of tenofovir yielding lower plasma tenofovir levels  
19 than TDF; (b) preclinical studies that indicated TAF is less likely to accumulate in renal proximal  
20 tubules, supporting the potential for an improved renal safety profile; and (c) Phase I dosing studies  
21 supporting doses of TAF far lower than the standard 300 mg dose of TDF.

22 233. Reviewing these studies, the FDA stated that: “Based on the design of the pivotal  
23 clinical trials, safety can be directly compared between TAF (Genvoya) and TDF (as Stribild) in  
24 subjects initiating treatment.”<sup>42</sup> According to the FDA, the studies showed that “the rates of signature  
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26  
27 <sup>42</sup> FDA Center for Drug Evaluation and Research Genvoya NDA 207561 Summary Review at 10,  
28 available at [https://www.accessdata.fda.gov/drugsatfda\\_docs/nda/2015/207561Orig1s000SumR.pdf](https://www.accessdata.fda.gov/drugsatfda_docs/nda/2015/207561Orig1s000SumR.pdf).



1 TFV [tenofovir] toxicities related to bone mineral density and renal laboratory parameters were lower  
2 [than TDF], likely due to the fact that the TAF prodrug yields lower plasma concentrations of TFV.”<sup>43</sup>

3 234. As a result of its improved renal safety profile over TDF, Gilead’s TAF-containing  
4 products are better tolerated by patients with renal impairment.

5 235. For example, Genvoya requires no dosage adjustment for patients with creatinine  
6 clearance greater than or equal to 30 mL per minute, whereas its TDF-containing counterpart Stribild  
7 is not recommended for patients with creatinine clearance below 70 mL per minute and Stribild should  
8 be discontinued if creatinine clearance falls below 50 mL per minute as dose interval adjustment cannot  
9 be achieved. Due to its superior safety profile, Genvoya has an expanded indication for renally  
10 impaired individuals with creatinine clearance greater than or equal to 30 mL per minute.

11 236. As a result of its improved bone toxicity safety profile over TDF, the labels for Gilead’s  
12 TAF-containing products no longer include bone effects in the Warnings and Precautions sections of  
13 those labels.

14 237. The FDA agreed that bone effects need only be displayed in the Adverse Events section  
15 of TAF drug labeling because “[w]ith respect to bone toxicity, TAF appears to have substantially less  
16 of an adverse effect on bone mineral density (BMD) than TDF.”<sup>44</sup>

17 238. Gilead removed bone toxicity from the Warnings and Precautions sections of the  
18 Genvoya label in December 2016 and from the Odefsey and Descovy labels in 2017. Bone toxicity  
19 remains in the Warnings and Precautions sections of the labels of Gilead’s TDF Drugs to this day.

20 **I. Gilead markets TAF as superior to TDF.**

21 239. Gilead’s TAF-based product websites, including the Genvoya site, market the TAF-  
22 based drugs as superior to Gilead’s TDF-containing products with respect to kidney health. Gilead  
23 recognizes that: “Kidneys play a key role in keeping you healthy, working around the clock to remove  
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<sup>43</sup> *Id.* at 15.

27 <sup>44</sup> FDA Center for Drug Evaluation and Research Vemlidy NDA 208464 Summary Review at 5,  
28 available at [https://www.accessdata.fda.gov/drugsatfda\\_docs/nda/2016/208464Orig1s000SumR.pdf](https://www.accessdata.fda.gov/drugsatfda_docs/nda/2016/208464Orig1s000SumR.pdf).

1 waste from your blood. That’s why it’s so important to take care of them, especially if you have HIV-  
2 1.”<sup>45</sup> Gilead states that the TAF-based products have “less impact on kidney lab tests” than other  
3 approved HIV-1 treatments, including Stribild, Atripla, and Truvada. The website also highlights that  
4 unlike its TDF products, the TAF-based products are “FDA-approved for people with mild-to-  
5 moderate kidney problems and can be used in some people with lowered kidney function without  
6 changing the dose.”<sup>46</sup>

7 240. Gilead’s TAF-based product websites, including the Genvoya site, market the TAF-  
8 based drugs as superior to Gilead’s TDF-containing products with respect to bone health. Gilead  
9 recognizes that: “Because HIV-1 medicines may impact your bones, it’s important to protect your bone  
10 health. If you’re under 30 years of age, you’re still developing bone mass. If you’re over 30, your  
11 bones have fully developed and it’s important to try to maintain them.”<sup>47</sup> The site touts clinical studies  
12 which demonstrate that the TAF-containing products “had less impact on hip and lower spine bone  
13 mineral density than the other approved HIV-1 treatments,” including Stribild, Atripla, and Truvada.<sup>48</sup>

14 241. Gilead also touts TAF as safer than TDF to scientists, clinical investigators, and doctors  
15 attending the annual Conference on Retroviruses and Opportunistic Infections (“CROI”).

16 242. In 2015, Gilead scientists presented to CROI attendees data evaluating the safety and  
17 efficacy of Genvoya in patients with mild to moderate renal impairment. Gilead stated that “TDF has  
18 been associated with clinically significant renal and bone toxicity,” and “[r]elative to TDF 300 mg,  
19 TAF at an equivalent dose of 25 mg has 90% lower circulating plasma TFV, while maintaining high  
20 antiviral activity.”<sup>49</sup> This first study of a single-tablet antiviral regimen without dose adjustment in  
21 patients with mild to moderate renal impairment demonstrated the efficacy and renal and bone safety  
22 of Genvoya in this patient population.

23  
24  
25 <sup>45</sup> See <https://www.genvoya.com/hiv-kidney-bone-health>.

26 <sup>46</sup> *Id.*

27 <sup>47</sup> *Id.*

28 <sup>48</sup> *Id.*

<sup>49</sup> <http://www.croi-conference.org/sites/default/files/posters-2015/795.pdf>.

1           243. In 2016, Gilead scientists presented to CROI attendees data evaluating the renal safety  
2 of TAF in patients with a high risk of kidney disease. Gilead stated that TDF “has been associated with  
3 an increased risk of [chronic kidney disease] ....” and “[d]ue to a 91% lower plasma tenofovir level,  
4 tenofovir alafenamide (TAF) relative to TDF has demonstrated a significantly better renal safety  
5 profile and no discontinuations due to renal adverse events through 2 years in 2 randomized, double-  
6 blind studies ... comparing TAF to TDF ....”<sup>50</sup> With respect to high risk renal patients, Gilead  
7 concluded that “[a]ntiretroviral-naïve adults with both high and low risk for [chronic kidney disease]  
8 treated with TAF had more favorable renal outcomes compared to those treated with TDF.”<sup>51</sup>

9           244. Gilead also presented at the 2016 CROI data demonstrating that TAF is safer to kidneys  
10 than TDF in the longer-term. Showing data through 96 weeks, Gilead concluded that “[c]linically  
11 significant renal events were less frequent in patients receiving” TAF vs. TDF and these “data provide  
12 further support for the improved renal safety profile of TAF compared with TDF.”<sup>52</sup>

13           245. In 2017, Gilead scientists presented to CROI attendees data showing that switching  
14 patients with low bone mineral density from a TDF-based to a TAF-based regimen results in increased  
15 BMD and a reversion from osteoporosis, leading Gilead to conclude that “[s]witching from TDF to  
16 TAF may be an important treatment strategy to increase bone mineral density in those at the highest  
17 fracture risk.”<sup>53</sup>

18           246. Also in 2017, Gilead scientists presented to CROI attendees 144-week data establishing  
19 the superiority of TAF over TDF with respect to efficacy as well as kidney and bone safety. At week  
20 144, TAF: was “superior to [TDF] on virologic efficacy,” had “significantly less impact than [TDF]  
21 on renal biomarkers,” and had “significantly less impact than [TDF] on BMD.”<sup>54</sup>

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25           <sup>50</sup> <http://www.croiconference.org/sites/default/files/posters-2016/681.pdf>.

26           <sup>51</sup> *Id.*

27           <sup>52</sup> <http://www.croiconference.org/sites/default/files/posters-2016/682.pdf>.

28           <sup>53</sup> [http://www.croiconference.org/sites/default/files/posters-2017/683\\_Brown.pdf](http://www.croiconference.org/sites/default/files/posters-2017/683_Brown.pdf).

<sup>54</sup> [http://www.croiconference.org/sites/default/files/posters-2017/453\\_Arribas.pdf](http://www.croiconference.org/sites/default/files/posters-2017/453_Arribas.pdf).

1           247. In 2018, Gilead scientists presented to CROI attendees 96-week data that showed that  
2 switching to a TAF-based regimen resulted in “significant increases in bone mineral density at hip and  
3 spine” and “improved biomarkers of renal tubular function.”<sup>55</sup>

4           248. Gilead’s sales force has used data showing the superior safety profile of TAF over TDF  
5 to convince doctors to switch patients from TDF-based to TAF-based products.

6           249. Gilead President and COO Milligan told analysts during a November 10, 2015 Credit  
7 Suisse Healthcare Conference that he expected Gilead’s sales representatives to be successful in  
8 switching the market from TDF to Genvoya based on favorable data showing the benefits of TAF over  
9 TDF. Milligan viewed switching patients from Stribild to Genvoya as “the most likely thing to happen  
10 very commonly, because it’s very seamless for the patient. You’re not really changing much; you’re  
11 just getting a better version of Stribild.”<sup>56</sup> Milligan also touted the benefit of switching Atripla patients,  
12 who, at that point, had a decade of TDF toxicity buildup, to Genvoya, which, he said, gives patients  
13 the benefits of TDF with a better safety profile.

14           250. In order to prevent or combat the cumulative buildup of kidney and bone toxicity  
15 associated with TDF (which Gilead itself caused by withholding the safer TAF design), Gilead’s  
16 message was: “if you’re a new patient, start with a TAF-based single-tablet regimen, because that’s  
17 going to be highly efficacious and very safe and very tolerable for long-term usage. And if you’re on  
18 a Viread-based regimen, it’s a great idea to convert, switch, upgrade to a TAF-based regimen as soon  
19 as possible.”<sup>57</sup>

20           251. According to Milligan, Genvoya was the most successful launch ever for an HIV  
21 therapy. After six months on the market, Genvoya was the most prescribed regimen for treatment-  
22 naïve and switch patients.

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25           <sup>55</sup> [http://www.croiconference.org/sites/default/files/posters-2018/1430\\_Mills\\_504.pdf](http://www.croiconference.org/sites/default/files/posters-2018/1430_Mills_504.pdf).

26           <sup>56</sup> Gilead Sciences Inc. at Credit Suisse Healthcare Conference – Final, FD (Fair Disclosure) Wire,  
27 Nov. 10, 2015.

28           <sup>57</sup> Gilead Sciences Inc. at Piper Jaffray Healthcare Conference – Final, FD (Fair Disclosure) Wire,  
Dec. 1, 2015.

1           252. Gilead’s conversion strategy continued with FDA approval of Gilead’s subsequent  
2 TAF-based products. As Milligan stated in March 2016, the marketplace was moving to TAF because  
3 patients need the safest possible medication:

4                   [A]s I look at TAF right now there’s a very strong medical rationale for  
5 TAF versus Viread. And so what we’re seeing in the marketplace with  
6 the launch of Genvoya and then with the recent approval of Odefsey is  
7 the desire to move patients from a TDF containing regimen to a TAF  
8 containing regimen . . . it’s very interesting that the field wants to move  
9 to the safest medication, I think should move to the safest medication  
10 because it’s a great opportunity for patients to stay on care for another  
11 10 to 20 years which is really where we’re at with most of these patients.  
12 They’re going to need decades more care and so you need the gentlest,  
13 safest option for patients . . . .<sup>58</sup>

14           253. Gilead’s 2017 Annual Report attributes strong growth in its HIV business to  
15 “widespread physician acceptance and uptake” of the TAF-based regimens.<sup>59</sup>

16           254. In January 2018, Milligan stated that “physicians and patients prefer TAF dramatically  
17 over our TDF-containing backbones,” noting that its TAF-based products had achieved more than 56%  
18 of the market share of its TDF-containing regimen.<sup>60</sup> TAF-based products now make up at least 74%  
19 of Gilead’s TDF- and TAF-based drug products for HIV treatment.

20           255. Gilead could have and should have incorporated the benefits of TAF, which doctors  
21 and patients “prefer dramatically” over TDF, into its products years earlier.

22           256. Gilead funded a 2018 study, Baumgardner, J., *et al.*, “Modeling the impacts of  
23 restrictive formularies on patients with HIV,” that highlights the damage Gilead did by withholding  
24 TAF products from the market. The authors found that a restrictive drug formulary design,<sup>61</sup> which  
25 restricts access to TAF or TDF-sparing regimens (other antiviral drugs, abacavir, lamuvidine, and  
26 doletegravir), forcing more people to use TDF-containing regimens, would cause 171,500 more

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27           <sup>58</sup> Gilead Sciences Inc. at Barclays Global Healthcare Conference – Final, FD (Fair Disclosure\_  
28 Wire, Mar. 15, 2016.

29           <sup>59</sup> Gilead Sciences 2017 Year in Review at 7, available at <https://www.gilead.com/-/media/files/pdfs/yir-2017-pdfs/final-year-in-review-426.pdf?la=en&hash=E86C6471302682C56A548CC42342AFC4>.

30           <sup>60</sup> Gilead Sciences Inc. at JPMorgan Healthcare Conference – Final, FD (Fair Disclosure) Wire,  
31 Jan. 8, 2018.

32           <sup>61</sup> A drug formulary is a list of an insurer’s covered drugs and is designed to save money.

1 cumulative bone and renal events and 16,500 more deaths by 2025 compared to an open formulary  
2 design which permitted patients to start on TAF. Gilead itself prevented patients from taking TAF for  
3 more than a decade—longer than the period covered by the 2018 study. Gilead likely caused even  
4 more deaths and injuries as a result of its callous decision to withhold the safer TAF drugs.

5 **J. Gilead failed to adequately warn about the risks of TDF.**

6 257. In addition to withholding a safer TAF-based design despite knowing the risk its TDF  
7 Drugs posed to patients' kidneys and bones, Gilead failed to adequately warn physicians and patients  
8 about the risks and safe use of TDF.

9 **1. Gilead failed to adequately warn doctors about the risks of TDF.**

10 258. Because tenofovir is primarily cleared out of the body by the kidneys, a patient  
11 experiences even greater exposure to tenofovir as the kidneys become impaired—causing even greater  
12 harm. As a result, early detection is key to preventing serious, potentially irreversible renal injury.  
13 Frequent monitoring for TDF-induced toxicity is also critical because patients are typically  
14 asymptomatic in the early stages. Gilead, however, downplayed the risks of TDF and the need to  
15 carefully monitor all patients in order to inflate sales.

16 259. During the first years Viread was on the market, Gilead relied on Viread sales for a  
17 significant portion of its operating income. For 2002, Viread's first full year on the market, Viread  
18 sales comprised 53% of Gilead's total product sales. In 2003, Viread accounted for 68% of Gilead's  
19 total product sales.

20 260. Gilead stated in its 2002 10-K that its operations would suffer if Viread did not maintain  
21 or increase its market acceptance. Gilead also stated that if additional safety issues were reported for  
22 Viread, this could "significantly reduce or limit our sales and adversely affect our results of  
23 operations."<sup>62</sup> Gilead made similar statements in its 2003 and 2004 10-K filings.

24 261. To make sure that safety issues did not depress or slow the growth of Viread sales,  
25 which were crucial to Gilead's operations, Gilead dramatically increased its sales force and marketing  
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27 <sup>62</sup> Gilead Sciences, Inc. Form 10-K for the fiscal year ended Dec. 31, 2002 at 24 available at  
28 <https://www.sec.gov/Archives/edgar/data/882095/000104746903008695/a2105292z10-k.htm>.

1 budget, and trained its sales representatives to deceptively represent Viread’s safety profile. At the  
2 direction of Gilead’s senior management, Gilead representatives told doctors that Viread was a  
3 “miracle drug,” “extremely safe,” and “extremely well-tolerated” with “no toxicities.” Gilead’s sales  
4 representatives did not tell doctors the facts: that Viread posed significant risks to patients’ kidneys  
5 and bones.

6 262. According to a 2009 shareholder lawsuit filed against Viread, Viread’s then-Chief  
7 Executive Officer John C. Martin frequently referred to Viread as a “miracle drug” at sales force  
8 meetings. According to a former employee, Gilead was trying to overcome the perception in the  
9 medical community that Viread was like Gilead’s previous HIV drugs and would likely cause kidney  
10 damage.

11 263. On March 14, 2002, FDA sent Gilead a Warning Letter admonishing Gilead for  
12 engaging in promotional activities that contained false and misleading statements in violation of the  
13 Federal Food, Drug and Cosmetic Act. The FDA stated that Gilead unlawfully minimized Viread’s  
14 risks, including with respect to kidney toxicity, and overstated its efficacy.

15 264. Despite this warning, Gilead continued to unlawfully promote Viread by minimizing  
16 its safety risks. During a June 2003 sales force training, Gilead instructed sales representatives to  
17 respond to anticipated physician concerns about Viread’s nephrotoxicity by downplaying that many  
18 patients taking Viread had experienced the adverse effects of kidney toxicity—some of them severe  
19—including but not limited to renal failure, acute renal failure, Fanconi syndrome, proximal  
20 tubulopathy, increased creatinine, and acute tubular necrosis. Gilead’s sales representatives omitted  
21 this material information from their sales presentations in order to drive sales.

22 265. The FDA issued another Warning Letter to Viread on July 29, 2003, stating that  
23 Gilead’s sales representatives had repeatedly omitted or minimized material facts regarding the safety  
24 profile of Viread. Among other things, the FDA required Gilead to retrain its sales force to ensure that  
25 Gilead’s promotional activities complied with the Federal Food, Drug and Cosmetic Act and  
26 accompanying regulations. But Gilead had achieved its goal: rapidly increased Viread sales.

27 266. In subsequent years, Gilead continued to downplay the risks of TDF-induced toxicity  
28 when promoting its TDF Drugs to doctors by withholding information about the frequency and severity



1 of adverse kidney and bone events; dismissing case reports of acute renal failure and other TDF-  
2 associated adverse events as purportedly unavoidable side effects of tenofovir in an otherwise “safe”  
3 drug; and failing to tell doctors to monitor patients for drug-induced toxicity using more sensitive  
4 markers of kidney function.

5 267. In addition to omitting crucial facts about the safety profile of TDF when promoting  
6 TDF to doctors, Gilead also downplayed the importance of patient monitoring in its TDF Drug labeling  
7 despite the importance of early detection of TDF-induced toxicity. The dangerous inadequacies in  
8 Gilead’s drug labeling were compounded by the misleading marketing messages it gave to doctors.

9 268. From Viread’s product approval on October 26, 2001, through May 20, 2007, Gilead’s  
10 TDF labeling failed to warn doctors that all patients needed to be monitored for adverse kidney effects.  
11 During this time, Gilead only recommended monitoring patients taking TDF Drugs for renal adverse  
12 effects if patients were at risk for, or had a history of, renal impairment or if they were taking another  
13 nephrotoxic drug. This monitoring recommendation was woefully inadequate because, as Gilead was  
14 well aware, TDF-associated renal toxicity had harmed patients who were not at risk for, or did not  
15 have a history of, renal impairment.

16 269. Gilead failed to include any warning about the need to monitor bone effects until  
17 October 14, 2003, and that warning was limited to patients with certain risk factors. Since then, Gilead  
18 has only suggested that doctors monitor, and only informs patients that monitoring may be necessary,  
19 for patients with certain risk factors for bone adverse effects. Gilead’s inadequate kidney monitoring  
20 warnings also prevented doctors from detecting early signs of kidney damage that can lead to bone  
21 density loss.

22 270. Gilead failed to warn about the need for universal monitoring even though it knew that  
23 all patients taking TDF are at risk for renal and bone adverse effects.

24 271. Gilead failed to warn about the need for universal monitoring even after patients  
25 without preexisting risk factors experienced kidney and bone effects.

26 272. Gilead failed to warn about the need for universal renal monitoring even though patients  
27 with a certain level of renal impairment should not take its TDF products or, if TDF products are to be  
28 administered to certain renally impaired patients, the dosing interval must be adjusted. The Viread and

1 Truvada labels require a dosing interval adjustment for patients with creatinine clearance of 30–49 mL  
2 per minute, and Atripla and Complera cannot be taken by patients with a creatinine clearance of less  
3 than 50 mL per minute. Frequent monitoring of all patients’ kidney function is necessary to ensure that  
4 patients’ kidneys are healthy enough to continue treatment or patients receive a needed dose interval  
5 adjustment.

6 273. Presented with signs of nephrotoxicity, physicians could have weighed further  
7 treatment options, such as increased monitoring, less frequent dosing, or drug discontinuation, before  
8 the damage manifested, worsened, or became irreversible. By failing to warn doctors to monitor all  
9 patients for TDF-associated toxicity, Gilead delayed the diagnosis of TDF-associated harm, causing  
10 or enhancing injuries that would have been prevented or lessened through early detection.

11 274. On May 21, 2007, Gilead added to the Viread label a recommendation that doctors  
12 calculate creatinine clearance (one measure of kidney function) in all patients before initiating  
13 treatment with a TDF-based product and as clinically appropriate during therapy. Gilead recommended  
14 monitoring of creatinine clearance and serum phosphorus only for patients at risk for renal  
15 impairment.<sup>63</sup>

16 275. The “all patients” monitoring recommendation for Viread, Truvada, Atripla, and  
17 Complera remained inadequate because it instructed doctors to assess just one, insufficiently sensitive  
18 marker of kidney function.<sup>64</sup> Without using sufficiently sensitive markers of kidney function,  
19 substantial kidney injury can occur before it is measurable. As a result, the detection of TDF-induced  
20 nephrotoxicity often comes too late, resulting in kidney injury that may be irreversible. Gilead should  
21 have warned doctors to test all patients for additional markers of kidney function, such as serum  
22

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23 <sup>63</sup> Gilead did not add similar warnings to the Truvada and Atripla labels until 2008. Complera’s  
24 label included such a warning at the time of FDA approval in 2011. And when Gilead began marketing  
25 Stribild in 2012, it warned doctors to assess some measures of kidney function in all patients but failed  
to warn doctors to monitor all patients for serum phosphorus. These warnings remained inadequate.

26 <sup>64</sup> It was not until 2018 that Gilead strengthened the Truvada, Atripla, and Complera labels to  
27 recommend that all patients receive monitoring for serum creatinine, estimated creatinine clearance,  
urine glucose, and urine protein. Gilead did not make this change to the Viread label until December  
28 2018, after Plaintiffs filed suit.

1 phosphorus and/or urine glucose, which are more sensitive to changes in the nephron tubule, the main  
2 site of TDF damage.<sup>65</sup>

3 276. Phosphorus is a mineral that plays an important role in many physiologic systems,  
4 including keeping bones healthy and strong. Normal working kidneys maintain balanced levels of  
5 phosphorus in the blood. Low levels of phosphorus in the blood may be indicative of impaired kidney  
6 function. Moreover, low serum phosphate is itself dangerous; low levels of phosphorus in the blood  
7 can cause a range of health problems, including serious bone and heart damage.

8 277. Serum phosphorus is a more sensitive marker of nephron tubule function than creatinine  
9 clearance. The nephron tubule is responsible for reabsorbing phosphorus from the glomerular filtrate.  
10 When the nephron tubule is damaged, it cannot reabsorb enough phosphorus, allowing the phosphorus  
11 to be excreted via urine. TDF nephrotoxicity is generally characterized by tubular dysfunction that  
12 precedes a decline in glomerular filtration. Thus, by monitoring patients' serum phosphorus, doctors  
13 are able to pick up more subtle changes in kidney function that would otherwise go undetected.  
14 Moreover, TDF-induced bone injuries are related to the wasting of minerals through the urine. This is  
15 due to dysfunction in the nephron tubule, which prevents reabsorption of minerals from the glomerular  
16 filtrate. If physicians knew earlier that their patients' kidneys were dysfunctional, subsequent bone  
17 injuries could be avoided.

18 278. Presented with early signs of nephrotoxicity, physicians could have weighed further  
19 treatment options, such as increased monitoring or drug discontinuation, before the damage  
20 manifested, worsened, or became irreversible. By failing to warn doctors to monitor additional, more  
21 sensitive markers of all patients' kidney function, Gilead delayed the diagnosis of TDF-associated  
22 harm, causing or enhancing patients' injuries that would have been prevented or lessened through early  
23 detection.

24  
25 <sup>65</sup> The "all patients" monitoring recommendation for Stribild upon approval was inadequate  
26 because it failed to warn doctors to measure serum phosphorus. On August 30, 2017, Gilead  
27 strengthened the Stribild label to recommend that all patients be monitored for serum creatinine, serum  
28 phosphorus, estimated creatinine clearance, urine glucose, and urine protein. But, on August 8, 2018,  
Gilead again weakened the Stribild label to warn doctors to monitor serum phosphorus only in patients  
with chronic kidney disease.

1           279. Gilead’s “all patients” monitoring recommendation for its TDF Drugs also remains  
2 inadequate because it fails to instruct doctors how frequently doctors should assess patients’ kidney  
3 function. By the time a doctor assesses a patient’s kidney function when “clinically appropriate,” the  
4 patient is likely to have already experienced adverse toxic effects, some of which might be irreversible.  
5 Regularly scheduled, frequent monitoring of kidney function is necessary to catch early signs of TDF-  
6 induced toxicity and prevent injury because patients are generally asymptomatic during the early  
7 stages.

8           280. Moreover, after May 21, 2007, the TDF labels do not disclose that adverse kidney and  
9 bone events occurred in patients without preexisting risk factors—which, combined with the warning  
10 to only routinely monitor patients at risk—gives the false impression that TDF is only harmful to  
11 people otherwise at risk for kidney and bone injuries. By failing to warn doctors as to the frequency of  
12 monitoring, Gilead delayed the diagnosis of TDF-associated harm, causing or enhancing injuries that  
13 could have been prevented or lessened through early detection.

14           281. Gilead’s monitoring instructions for at risk patients taking Viread, Truvada, Atripla,  
15 and Complera, and patients taking Stribild are also inadequate because they fail to recommend a  
16 specific, frequent monitoring schedule for doctors to assess patients’ kidney function.

17           282. Gilead’s warnings about the need to monitor patients for the renal effects of TDF in the  
18 U.S. are far weaker than those given by Gilead to physicians and patients in the European Union. From  
19 the approval of the first TDF product in the EU, Gilead’s European labeling (known there as the  
20 Summary of Product Characteristics or “SmPC”) has recommended that doctors in the EU routinely  
21 monitor, on a specific schedule, all patients taking TDF Drugs for adverse renal effects. In addition,  
22 Gilead’s “all patient” monitoring instruction in the EU is not limited to testing only for creatinine  
23 clearance. In its EU labeling, Gilead recommends that doctors also monitor all TDF Drug patients’  
24 serum phosphorus levels on the specified, frequent schedule.

25           283. Gilead’s renal monitoring instructions for Viread upon approval in the U.S. and the EU  
26 looked like this—with Gilead warning EU physicians to monitor all patients’ serum creatinine and  
27 serum phosphate at baseline and every four weeks, while it told U.S. doctors to consider monitoring  
28 only patients at risk, with no recommended frequency:

Viread U.S. Label 10/26/01	Viread EU Label 02/07/2002
<p>Although tenofovir-associated renal toxicity has not be observed in pooled clinical studies for up to one year, long term renal effects are unknown. <b><u>Consideration should be given to monitoring for changes in serum creatinine and serum phosphorus in patients at risk or with a history of renal dysfunction.</u></b></p>	<p>Although no significant nephrotoxicity has been observed in clinical trials ... the monitoring of renal function is recommended since nephrotoxicity of tenofovir cannot be strictly excluded. <b><u>The monitoring of renal function (serum creatinine and serum phosphate) is recommended at baseline before taking tenofovir disoproxil fumarate and at routine intervals during therapy every four weeks.</u></b></p>

284. Gilead's EU label also instructed physicians when to increase monitoring and consider treatment interruption in light of the results of frequent monitoring. Gilead's U.S. label contained no such warning:

Viread U.S. Label 10/26/01	Viread EU Label 02/07/2002
	<p>If serum phosphate is &lt; 1.5 mg/dl (0.48 mmol/l) or serum creatinine is &gt; 1.7 mg/dl (150 μmol/l), renal function should be re-evaluated within one week. Consideration should be given to interrupting treatment with tenofovir disoproxil fumarate in patients with increases in serum creatinine to &gt; 2.0 mg/dl (177 μmol/l) or decreases in serum phosphate to &lt; 1.0 mg/dl (0.32 mmol/l).</p>

285. On December 8, 2004, Gilead updated Viread's EU labeling to change the recommended renal monitoring schedule and recommend that doctors monitor creatinine clearance, which gives a more accurate picture of kidney function, rather than serum creatinine.<sup>66</sup> Gilead continued to instruct doctors in the EU to monitor TDF patients more carefully than it instructed doctors in the U.S.:

Viread's U.S. Labeling 12/8/2004	Viread's EU Labeling 12/8/2004
<p><b><u>Patients at risk</u></b> for, or with a history of, renal dysfunction and patients receiving concomitant nephrotoxic agents <b><u>should be carefully monitored for changes in serum creatinine and phosphorus.</u></b></p>	<p>Monitoring of renal function (creatinine clearance and serum phosphate) is recommended before taking tenofovir disoproxil fumarate, every four weeks during the first year, and then every three months. In patients at risk for, or with a history of, renal dysfunction, and patients with renal insufficiency, consideration should be given to more frequent monitoring of renal function.</p>

<sup>66</sup> Gilead did not recommend that doctors monitor creatinine clearance in the U.S. until 2007.

286. Like the initial EU label, the 2004 EU label also instructed physicians when to increase monitoring and consider treatment interruption in light of the results of frequent monitoring. Although Gilead instructed U.S. doctors to adjust the dose interval for patients with creatinine clearance <50 mL/min, it did not tell doctors to monitor for creatinine clearance (only serum creatinine for some patients) and only instructed doctors to monitor patients' serum creatinine if they were at risk for, or had a history of, renal impairment:

Viread's U.S. Labeling 12/8/2004	Viread's EU Labeling 12/8/2004
Dosing interval adjustment is recommended in all patients with creatinine clearance <50 mL/min.	If serum phosphate is < 1.5 mg/dl (0.48 mmol/l) or creatinine clearance is decreased to < 50 ml/min, renal function should be re-evaluated within one week and the dose interval of Viread adjusted (see 4.2). Consideration should also be given to interrupting treatment with tenofovir disoproxil fumarate in patients with creatinine clearance decreased to < 50 ml/min or decreases in serum phosphate to < 1.0 mg/dl (0.32 mmol/l).

287. After Gilead began recommending in its U.S. labeling that doctors calculate creatinine clearance in all patients prior to initiating therapy and as clinically appropriate during therapy, Gilead still gave stronger warnings in the EU—recommending that EU doctors monitor all patients' creatinine clearance and serum phosphate every four weeks during the first year, then every three months:

Viread's U.S. Labeling 05/21/2007	Viread's EU Labeling 05/21/2007
It is recommended that creatinine clearance be calculated in all patients prior to initiating therapy and as clinically appropriate during therapy with VIREAD. <b><u>Routine monitoring of calculated creatinine clearance and serum phosphorus should be performed in patients at risk for renal impairment.</u></b>	It is recommended that creatinine clearance is calculated in all patients prior to initiating therapy with tenofovir disoproxil fumarate and <b><u>renal function (creatinine clearance and serum phosphate) is also monitored every four weeks during the first year, and then every three months. In patients at risk for renal impairment, consideration should be given to more frequent monitoring of renal function.</u></b>

288. Gilead instructs in Viread's most recent EU labeling "that renal function (creatinine clearance and serum phosphate) [should be] assessed in all patients prior to initiating therapy with tenofovir disoproxil fumarate and ... also monitored after two to four weeks of treatment, after three months of treatment, and every three to six months thereafter in patients without renal risk factors."

1 For patients at risk for renal impairment, Gilead states that more frequent monitoring of renal function  
2 is “required.”

3 289. Gilead has updated its Viread EU labeling multiple times every year since 2002. Each  
4 time, Gilead determined that it should instruct doctors in the EU that they should monitor all patients’  
5 kidneys on a frequent, specific schedule using multiple markers of kidney function, including serum  
6 phosphorus.

7 290. On February 24, 2005, Truvada received approval to be marketed in the EU. As with  
8 Viread, Gilead’s Truvada EU labeling contained stronger monitoring warnings than its U.S. labeling  
9 at the time of approval:

Truvada’s U.S. Labeling 08/02/2004	Truvada’s EU Labeling 02/24/2005
<p>10 <b><u>Patients at risk</u></b> for, or with a history of, renal 11 dysfunction and patients receiving concomitant 12 nephrotoxic agents <b><u>should be carefully</u></b> 13 <b><u>monitored for changes in serum creatinine</u></b> 14 <b><u>and phosphorus.</u></b></p>	<p>Careful monitoring of renal function (serum creatinine and serum phosphate) is recommended before taking Truvada, every four weeks during the first year, and then every three months. In patients with a history of renal dysfunction or in patients who are at risk for renal dysfunction, consideration should be given to more frequent monitoring of renal function.</p>

15  
16 291. Like its Viread EU labeling, Gilead’s Truvada EU labeling also instructed physicians  
17 to increase monitoring and consider treatment interruption if the results of frequent monitoring showed  
18 that a patient’s serum phosphate or creatinine clearance fell below a specified level. Gilead’s U.S.  
19 labeling recommended only that patients with creatinine clearance < 50 mL/min receive a dose  
20 adjustment—though Gilead did not recommend that doctors monitor patients’ creatinine clearance  
21 (and would not do so for almost three years) and only instructed doctors to monitor patients’ serum  
22 creatinine if they were at risk for, or had a history of, renal impairment.

23 292. In Truvada’s most recent SmPC, Gilead continues to instruct doctors as to frequent,  
24 routine monitoring of renal function (creatinine clearance and serum phosphate) for patients without  
25 preexisting risk factors for renal disease: at treatment initiation and then “after two to four weeks of  
26 use, after three months of use and every three to six months thereafter.” For patients at risk for renal  
27 disease, Gilead warns that more frequent monitoring of renal function is “required.”  
28



1           293.    Gilead has updated its Truvada EU labeling multiple times every year since 2005. Each  
2 time, Gilead determined that it should instruct doctors in the EU to monitor all patients' kidneys on a  
3 frequent, specific schedule using multiple markers of kidney function, including serum phosphorus.

4           294.    In 2006, Gilead issued a "Dear Doctor" letter to physicians in the EU about the  
5 importance of frequent, routine monitoring of all TDF patients' renal function. Gilead issued no such  
6 letter to doctors in the U.S., though the risk to patients' kidneys was the same.

7           295.    On December 18, 2007, Atripla received approval to be marketed in the EU. As with  
8 Viread and Truvada, Gilead's Atripla EU labeling contained stronger monitoring warnings than its  
9 U.S. labeling at the time of approval:

<b>Atripla's U.S. Labeling 07/12/2006</b>	<b>Atripla's EU Labeling 12/18/2007</b>
<u>Patients at risk</u> for, or with a history of, renal dysfunction and patients receiving concomitant nephrotoxic agents <u>should be carefully monitored for changes in serum creatinine and phosphorus.</u>	It is recommended that creatinine clearance is calculated in all patients prior to initiating therapy with Atripla and renal function (creatinine clearance and serum phosphate) is also monitored every four weeks during the first year and then every three months. In patients with a history of renal dysfunction or in patients who are at risk for renal dysfunction, consideration must be given to more frequent monitoring of renal function.

17           296.    Like its Viread EU and Truvada EU labeling, Gilead's Atripla EU labeling also  
18 instructed physicians to increase monitoring and consider treatment interruption if the results of  
19 frequent monitoring showed that a patient's serum phosphate or creatinine clearance fell below a  
20 specified level. Gilead's U.S. labeling stated only that patients with creatinine clearance < 50 mL/min  
21 should not receive Atripla—though Gilead did not recommend that doctors monitor patients'  
22 creatinine clearance (and would not do so for approximately another year) and only instructed doctors  
23 to monitor patients' serum creatinine if they were at risk for, or had a history of, renal impairment:

<b>Atripla's U.S. Labeling 07/12/2006</b>	<b>Atripla's EU Labeling 12/18/2007</b>
Since ATRIPLA is a combination product and the dose of the individual components cannot be altered, patients with creatinine clearance <50 mL/min should not receive ATRIPLA.	If serum phosphate is < 1.5 mg/dl (0.48 mmol/l) or creatinine clearance is decreased to < 50 ml/min in any patient receiving Atripla, renal function must be re-evaluated within one week, including measurements of blood glucose, blood potassium and urine glucose concentrations (see section 4.8, proximal tubulopathy). Since Atripla

Atripla's U.S. Labeling 07/12/2006	Atripla's EU Labeling 12/18/2007
	is a combination product and the dosing interval of the individual components cannot be altered, treatment with Atripla must be interrupted in patients with confirmed creatinine clearance < 50 ml/min or decreases in serum phosphate to < 1.0 mg/dl (0.32 mmol/l).

297. In Atripla's most recent SmPC, Gilead instructs doctors that creatinine clearance should be calculated in all patients prior to initiating therapy and renal function (creatinine clearance and serum phosphate) be monitored after two to four weeks of use, after three months of treatment and every three to six months thereafter in patients without renal risk factors. For patients at risk, Gilead states that more frequent monitoring is "required."

298. Gilead has updated its Atripla EU labeling multiple times every year since 2007. Each time, Gilead determined that it should instruct doctors in the EU to monitor all patients' kidneys on a frequent, specific schedule using multiple markers of kidney function, including serum phosphorus.

299. On November 30, 2011, Complera (under the trade name Eviplera) received approval to be marketed in the EU. As with Viread, Truvada, and Atripla, Gilead's Complera EU labeling contained stronger monitoring warnings than its U.S. labeling at the time of approval:

Complera's U.S. Labeling 08/10/2011	Complera's EU Labeling 11/30/11
It is recommended that creatinine clearance be calculated in all patients prior to initiating therapy and as clinically appropriate during therapy with COMPLERA. <b><u>Routine monitoring of calculated creatinine clearance and serum phosphorus should be performed in patients at risk</u></b> for renal impairment, including patients who have previously experienced renal events while receiving HEPSERA.	It is recommended that creatinine clearance is calculated in all patients prior to initiating therapy with Eviplera and renal function (creatinine clearance and serum phosphate) is also monitored every four weeks during the first year and then every three months. In patients at risk for renal impairment, including patients who have previously experienced renal events while receiving adefovir dipivoxil, consideration should be given to more frequent monitoring of renal function.

300. Like its Viread EU, Truvada EU, and Atripla EU labeling, Gilead's Complera EU labeling also instructed physicians to increase monitoring and consider treatment interruption if the results of frequent monitoring showed that a patient's serum phosphate or creatinine clearance fell

1 below a specified level. Gilead’s U.S. labeling stated only that patients with creatinine clearance < 50  
 2 mL/min should not receive Complera:

Complera’s U.S. Labeling 08/10/2011	Complera’s EU Labeling 11/30/11
3 Since COMPLERA is a combination product 4 and the dose of the individual components 5 cannot be altered, patients with creatinine 6 clearance below 50 mL per minute should not 7 receive COMPLERA. 8 9 10 11	If serum phosphate is < 1.5 mg/dl (0.48 mmol/l) or creatinine clearance is decreased to < 50 ml/min in any patient receiving Eviplera, renal function should be re-evaluated within one week, including measurements of blood glucose, blood potassium and urine glucose concentrations (see section 4.8, proximal tubulopathy). Since Eviplera is a combination product and the dosing interval of the individual components cannot be altered, treatment with Eviplera must be interrupted in patients with confirmed creatinine clearance decreased to < 50 ml/min or decreases in serum phosphate to < 1.0 mg/dl (0.32 mmol/l). 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

301. In Complera’s/Eviplera’s most recent SmPC, Gilead instructs that creatinine clearance should be calculated in all patients prior to initiating therapy and renal function (creatinine clearance and serum phosphate) be monitored after two to four weeks of use, after three months of treatment and every three to six months thereafter in patients without renal risk factors. For patients at risk, Gilead states that more frequent monitoring is “required.”

302. Gilead has updated its Complera EU labeling multiple times every year since 2011. Each time, Gilead determined that it should instruct doctors in the EU to monitor all patients’ kidneys on a frequent, specific schedule using multiple markers of kidney function, including serum phosphorus.

303. On May 27, 2013, Stribild received approval to be marketed in the EU. As with Viread, Truvada, Atripla, and Complera, Gilead included in its Stribild EU labeling stronger monitoring warnings than its U.S. labeling at the time of approval:

Stribild U.S. Labeling 08/27/2012	Stribild’s EU Labeling 05/27/2013
Estimated creatinine clearance, urine glucose and urine protein should be documented in all patients prior to initiating therapy.... <b><u>Routine monitoring of estimated creatinine clearance, urine glucose, and urine protein should be performed during STRIBILD therapy in all patients. Additionally, serum phosphorus</u></b>	Creatinine clearance should be calculated and urine glucose and urine protein should be determined in all patients ... Creatinine clearance, serum phosphate, urine glucose and urine protein should be monitored every four weeks during the first year and then every three months during Stribild therapy. In patients at risk

<b>Stribild U.S. Labeling 08/27/2012</b>	<b>Stribild's EU Labeling 05/27/2013</b>
<b><u>should be measured in patients at risk for renal impairment.</u></b>	for renal impairment consideration should be given to more frequent monitoring of renal function.

304. Gilead also included in its Stribild EU labeling a stronger warning about initiating the drug in patients with mild renal impairment:

<b>Stribild U.S. Labeling 08/27/2012</b>	<b>Stribild's EU Labeling 05/27/2013</b>
STRIBILD should not be initiated in patients with estimated creatinine clearance below 70 mL per min.	Stribild should not be initiated in patients with creatinine clearance < 70 mL/min. It is recommended that Stribild is not initiated in patients with creatinine clearance < 90 mL/min unless, after review of the available treatment options, it is considered that Stribild is the preferred treatment for the individual patient.

305. In Stribild's most recent SmPC, Gilead states that for patients at risk, physician monitoring of creatinine clearance, serum phosphate, urine glucose, and urine protein more frequently than every four weeks during the first year of treatment and then every three months during Stribild therapy is "required."

306. Gilead has updated its Stribild EU labeling multiple times every year since 2013. Each time, Gilead determined that it should instruct doctors in the EU to monitor all patients' kidneys on a frequent, specific schedule using multiple markers of kidney function, including serum phosphorus.

307. Unlike Gilead's U.S. labeling, Gilead's EU labeling for Viread and Truvada also discloses that a higher risk of renal impairment has been reported in patients receiving TDF as part of a ritonavir or cobicistat-boosted regimen (like Stribild), and doctors should carefully evaluate whether it is appropriate to prescribe TDF as part of a boosted regimen in patients with renal risk factors.

308. There is no medical, clinical, or scientific basis for the differences between the warnings contained in Gilead's labeling for its TDF-based products in the U.S. and its labeling for the same products in the EU. Gilead knew that it should instruct doctors to monitor all patients for multiple markers of kidney function on a frequent schedule but did not do so in the U.S.

309. Gilead was more concerned with increasing or maintaining TDF Drug sales in the U.S. by downplaying the safety risk and the need for careful, frequent monitoring of all patients than it was in safeguarding patients from the known risks of TDF toxicity.

1           310. In addition, until 2018, Gilead’s U.S. warnings about the need to monitor patients for  
2 renal effects of Viread, Truvada, Atripla, and Complera were also far weaker than the warnings it gives  
3 to monitor patients for renal effects of TAF, even though TAF is far less toxic to kidneys than TDF.  
4 Gilead has consistently warned doctors to monitor all patients taking TAF-based drugs for multiple  
5 markers of renal function, including urine glucose and urine protein, not just estimated creatinine  
6 clearance.

7           311. For example, when the FDA approved Odefsey—the TAF version of Complera—on  
8 March 1, 2016, Gilead gave stronger monitoring warnings for safer Odefsey than it did for Complera,  
9 telling doctors that they should monitor all Odefsey patients, not just those at risk, for multiple markers  
10 of kidney function:

<b>Complera’s U.S. Label 03/01/2016</b>	<b>Odefsey’s Labeling 03/01/2016</b>
It is recommended that estimated creatinine clearance be assessed in all patients prior to initiating therapy and as <b>clinically appropriate</b> during therapy with COMPLERA. In patients at risk of renal dysfunction, including patients who have previously experienced renal events while receiving HEPSERA®, it is recommended that estimated creatinine clearance, serum phosphorus, urine glucose, and urine protein be assessed prior to initiation of COMPLERA and periodically during COMPLERA therapy.	Estimated creatinine clearance, urine glucose and urine protein should be assessed before initiating ODEFSEY therapy and should be monitored during therapy in all patients. Serum phosphorus should be monitored in patients with chronic kidney disease because these patients are at greater risk of developing Fanconi syndrome on tenofovir prodrugs. Discontinue ODEFSEY in patients who develop clinically significant decreases in renal function or evidence of Fanconi syndrome. <sup>67</sup>

18           312. When the FDA approved Descovy—the TAF version of Truvada—on April 4, 2016,  
19 Gilead gave stronger monitoring warnings for safer Descovy than it did for Truvada, telling doctors  
20 that they should monitor all Descovy patients, not just those at risk, for multiple markers of kidney  
21 function:

<b>Truvada U.S. Labeling 04/04/2016</b>	<b>Descovy U.S. Labeling 04/04/2016</b>
It is recommended that estimated creatinine clearance be assessed in all individuals prior to initiating therapy and as clinically appropriate during therapy with TRUVADA. In patients at risk of renal dysfunction, including patients who have previously experienced renal events while	Estimated creatinine clearance, urine glucose, and urine protein should be assessed before initiating DESCOVY therapy and should be monitored during therapy in all patients. Serum phosphorus should be monitored in patients with chronic kidney disease because these patients are

27           <sup>67</sup> On August 17, 2017, Gilead updated its Odefsey label to tell doctors to all monitor all patients,  
28 not just those with chronic kidney disease, for serum phosphorus.

Truvada U.S. Labeling 04/04/2016	Descovy U.S. Labeling 04/04/2016
receiving HEPSERA®, it is recommended that estimated creatinine clearance, serum phosphorus, urine glucose, and urine protein be assessed prior to initiation of TRUVADA, and periodically during TRUVADA therapy.	at greater risk of developing Fanconi syndrome on tenofovir prodrugs. Discontinue DESCOVY in patients who develop clinically significant decreases in renal function or evidence of Fanconi syndrome.

313. Gilead determined that it should give stronger monitoring warnings for its safer TAF-based drugs, yet failed to strengthen its TDF Drug warnings for years.

**2. Gilead failed to adequately warn patients about the risks of TDF.**

314. Gilead failed to adequately warn patients about the risks of TDF, and the need to routinely monitor all patients taking TDF, in direct-to-consumer advertising and in patient labeling.

315. Gilead promoted its TDF Drugs directly to patients through direct-to-consumer advertising, including print and online media. Like its sales force’s promotion to doctors, Gilead’s consumer advertising downplayed the risks of TDF toxicity by, among other things, hiding risk information relative to the benefits of the drugs, and suggesting that kidney and bone adverse events only occurred in, and monitoring was only necessary for, patients with risk factors for such injuries.

316. For example, a print advertisement for Truvada that appeared in the November 2004 edition of *The Advocate*, the oldest and largest lesbian, gay, bisexual, and transgender magazine in the U.S., stated under the heading “Important Safety Information” that: “If you have had kidney problems or take other medicines that can cause kidney problems, your medical professional should do regular blood tests to check your kidneys.” Yet Gilead knew by this time that adverse kidney events were not limited to at risk patients, and thus should have warned doctors and patients about the need for frequent monitoring of all patients.

317. On March 26, 2010, the FDA issued another Warning Letter to Gilead, this time in connection with Gilead’s direct-to-consumer print advertising for Truvada. The FDA stated that Gilead’s Truvada advertisement was false and misleading because it overstated the efficacy of Truvada and minimized the risks associated with the drug, in violation of the Federal Food, Drug, and Cosmetic Act and FDA implementing regulations. The FDA noted that Truvada is associated with “serious risks” like new onset or worsening renal impairment, including cases of acute renal failure and Fanconi syndrome (renal tubular injury with severe hypophosphatemia), and decreases in bone mineral density,



1 including cases of osteomalacia (associated with proximal renal tubulopathy and which may contribute  
2 to fractures). The agency stated that Gilead’s Truvada advertising was false or misleading because it  
3 failed to present the risks associated with Truvada with a prominence and readability comparable to  
4 the statements regarding the drug’s benefits.

5 318. In addition to the reasons set forth in the Warning Letter, the Truvada advertising was  
6 also false and misleading because, like the earlier Truvada advertising, it continued to suggest that  
7 kidney problems only occurred in, and monitoring was also necessary for, patients that had had kidney  
8 problems in the past or took other medications that can cause kidney problems.

9 319. Upon information and belief, Gilead’s other direct-to-consumer advertising for Viread,  
10 Truvada, Atripla, and Complera similarly failed to adequately warn patients about the true risk of TDF  
11 and the need to routinely monitor all patients for TDF-associated kidney and bone effects.

12 320. Gilead’s patient package inserts for Viread, Truvada, Atripla, and Complera also failed  
13 to warn about all patients’ need to be routinely monitored by their doctors for adverse kidney and bone  
14 effects. The patient package inserts said nothing for years about monitoring anyone other those who  
15 were already at risk for kidney and bone problems despite Gilead’s knowledge that TDF was injuring  
16 patients without identified risk factors for such injuries.

17 321. Gilead’s patient package inserts for Viread, Truvada, Atripla, and Complera failed to  
18 adequately warn patients even after Gilead had inadequately updated the warnings in its prescriber  
19 labeling.

20 322. For example, Gilead did not disclose to patients that Viread may cause “new or worse  
21 kidney problems” until more than two years after Gilead added that warning to the Viread prescriber  
22 labeling. And Gilead waited many more years before it added the “new or worse kidney problems”  
23 disclosure to the patient package inserts for other TDF products; it did not appear in the Truvada patient  
24 package insert until June 17, 2013 and did not appear in the Atripla patient package insert until July  
25 25, 2018—nearly five and ten years respectively after Gilead first warned doctors that TDF may cause  
26 “new onset or worsening renal impairment.”

27 323. Gilead similarly delayed disclosing to patients in the patient package inserts about  
28 doctors’ need to assess all plaintiffs’ kidney function prior to initiating treatment with TDF. Although



1 Gilead added that warning to the Viread prescriber labeling in May 2007, it did not tell patients that  
2 “[y]our healthcare provider should do blood tests to check your kidneys before you start treatment”  
3 with TDF until August 16, 2012, for Viread, May 15, 2018, for Truvada, July 25, 2018, for Atripla,  
4 and January 25, 2013, for Complera. At a minimum, Gilead was grossly negligent in failing to ensure  
5 that its warnings to patients were consistent with those it gave to doctors and the patient warnings it  
6 gave were consistent among its various TDF Drugs.

7 **3. Gilead could have unilaterally strengthened its TDF drug labels.**

8 324. Gilead could have strengthened the Warnings, Precautions, and Adverse Events  
9 sections of the labels for its TDF Drugs unilaterally without prior FDA approval.

10 **a. Gilead could have unilaterally strengthened its warnings before FDA**  
11 **approval.**

12 325. Each time Gilead sought FDA approval for a new TDF Drug, it could have strengthened  
13 its label before the drug obtained FDA approval. Gilead bears primary responsibility for its drug  
14 labeling at all times, and was responsible for crafting adequate labels before the drugs were FDA  
15 approved. No federal law prevented Gilead from submitting a stronger warning label to the FDA prior  
16 to the initial approval of the TDF Drugs. And the FDA would not have prevented Gilead from  
17 strengthening its monitoring warnings in advance of FDA approval.

18 326. Gilead’s initial EU label for its first TDF Drug, Viread, included stronger monitoring  
19 warnings. As it did in the EU, Gilead could have included stronger warnings in its initial Viread label  
20 in the U.S.—had Gilead been concerned with patient safety rather than U.S. sales.

21 327. Moreover, before Gilead submitted Truvada, Atripla, Complera, and Stribild for FDA  
22 approval in the U.S., it knew that it gave stronger monitoring warnings for its TDF Drugs in the EU.  
23 Gilead knew, as evidenced by its EU labels, that stronger warnings were warranted. It could have and  
24 should have used this knowledge to strengthen its U.S. labels.

25 328. In addition, once TDF was on the market, each time Gilead submitted a new TDF Drug  
26 for FDA approval, it did so with years of cumulative knowledge as to the adverse toxic effects of TDF.  
27 Faced with accumulating information about adverse kidney and bone toxicity, including in patients  
28

1 without preexisting risk factors, Gilead could have strengthened its monitoring warnings before  
2 submitting the drugs for FDA approval.

3 329. The FDA would not have rejected Gilead’s stronger warnings. The FDA has, in fact,  
4 approved labels including stronger monitoring warnings for the TDF Drugs, as well as the safer TAF  
5 drugs.

6 **b. Gilead could have unilaterally strengthened its warnings after FDA**  
7 **approval.**

8 **(1) Before August 22, 2008**

9 330. Prior to August 22, 2008, Gilead could have strengthened its Viread, Truvada, and  
10 Atripla labels via CBE without prior FDA approval. Under the CBE regulation in effect during that  
11 time, Gilead could have simply submitted a supplemental submission strengthening the labels’  
12 warnings and/or its instructions about the safe administration of the drugs. 21 C.F.R.  
13 § 314.70(c)(6)(iii).

14 331. Among other things, Gilead could have strengthened the labels’ warnings by providing  
15 additional information about laboratory tests helpful in following the patient’s response or identifying  
16 possible adverse reactions, including such factors as the range of normal and abnormal values and the  
17 recommended frequency with which tests should be performed before, during, and after therapy. 21  
18 C.F.R. § 201.57(c)(6).

19 332. Prior to August 22, 2008, Gilead could have strengthened its labels via CBE without  
20 regard to whether it possessed information that it did not previously provide to the FDA.

21 333. The FDA would not have rejected Gilead’s supplemental submission to strengthen the  
22 TDF labels. The FDA has, in fact, approved labels including stronger monitoring warnings for the  
23 TDF Drugs, as well as the safer TAF drugs.

24 **(2) On and after August 22, 2008, through July 2012**

25 334. On and after August 22, 2008, when the CBE regulation was amended, Gilead could  
26 have unilaterally strengthened its labels for Viread, Truvada, Atripla, and Complera post-FDA  
27 approval based on “newly acquired information,” *i.e.*, information that was not previously presented  
28 to the FDA.

1           335. Gilead could have strengthened the Warnings, Precautions, and Adverse Events  
2 sections of its labels unilaterally, without requiring prior FDA approval, based on, among other things:  
3 increasing post-approval evidence that patients with and without preexisting risk factors were  
4 experiencing kidney and bone adverse effects with a frequency greater than reported in Gilead’s  
5 clinical trials; expanding post-approval evidence that all patients are at risk for TDF-induced  
6 nephrotoxicity, meaning that doctors should monitor all patients for multiple indicators of renal  
7 function, including tubular dysfunction; and Gilead’s own post-approval determinations to give  
8 stronger warnings regarding the exact same TDF Drugs in the EU.

9           336. Except for Stribild, Gilead’s clinical trials of the TDF Drugs, upon which FDA approval  
10 was based, did not show significant nephrotoxicity of TDF, despite preclinical evidence demonstrating  
11 that TDF could be highly toxic to kidneys and bones. However, once Gilead started marketing TDF,  
12 patients quickly began experiencing TDF’s nephrotoxic effects, some severe and irreversible.  
13 Although the FDA became aware, after the clinical trials through adverse event reporting, that TDF  
14 was injuring patients’ kidneys and bones, it did not know the true frequency or severity of adverse  
15 events, injury, or risk associated with TDF.

16           337. On May 21, 2007, Gilead changed its Viread label to instruct doctors to calculate  
17 creatinine clearance in all patients before initiating treatment with TDF and as clinically appropriate  
18 during therapy. Gilead recommended the monitoring of creatinine clearance and serum phosphorus  
19 only for patients at risk of renal impairment.

20           338. This warning remained inadequate because it failed to instruct doctors to frequently  
21 monitor all patients for sufficiently sensitive markers of kidney function that could detect early signs  
22 of nephrotoxicity and thus prevent or lessen the harm of TDF. As Gilead had known since at least  
23 2002, TDF was injuring patients with no preexisting risk factors for kidney impairment. Gilead’s May  
24 21, 2007 label change perpetuated the false distinction between patients “at risk” for TDF-induced  
25 nephrotoxicity and everyone else. But as subsequent studies would make clear, while there may be  
26 certain factors that increase a patient’s risk of TDF-induced renal damage, *all TDF patients are at*  
27 *risk*—making frequent, careful monitoring of all patients essential for safe use of the drug.  
28

1           339. As clinicians’ experience with TDF grew, the medical literature recognized that even if  
2 TDF may not frequently impair kidneys’ *glomerular function*—as measured by serum creatinine or  
3 creatinine clearance—in the absence of established risk factors, TDF-induced damage to kidneys’  
4 *tubular function* is much more common and cannot be adequately predicted by traditional risk factors  
5 for kidney impairment or detected by monitoring for glomerular function. These new studies  
6 demonstrated a heightened risk to all patients, leading study authors to conclude that all patients must  
7 be frequently monitored for markers of tubular function—e.g., serum phosphorus, in addition to  
8 creatinine clearance.

9           340. For example, the 2009 paper, Labarga P., *et al.*, “Kidney tubular abnormalities in the  
10 absence of impaired glomerular function in HIV patients treated with tenofovir,” described the study  
11 of glomerular and tubular function in 284 patients, 154 of whom took TDF, 49 of whom took another  
12 HIV regimen, and 81 of whom took no antiretroviral drugs. The authors found that glomerular  
13 function, as measured by plasma creatinine levels or creatinine clearance or both, was within normal  
14 limits and comparable among all study groups. Tubular dysfunction, on the other hand, was far more  
15 frequent in the TDF group (22%), as compared to those never treated with TDF (6%) or never exposed  
16 to antiretrovirals (12%). The authors also identified three TDF patients with complete Fanconi  
17 syndrome (the signature TDF toxicity), even though each patient’s creatinine clearance was within the  
18 normal range. After follow-up, the data showed that the TDF patients had a significantly greater risk  
19 for tubular damage than patients never treated with TDF: an estimated 25% rate of tubular dysfunction  
20 at 4 years for TDF patients compared to null for the rest.

21           341. The Labarga study also found that no risk factor other than TDF use and old age was  
22 predictive of tubular dysfunction. And because estimates of glomerular function like creatinine  
23 clearance were not predictive of tubular function, the authors explained that unless tubular parameters  
24 like urine glucose and/or phosphorus are routinely monitored, tubular abnormalities may go  
25 undiagnosed. And if tubular damage persists unnoticed, patients may progress to more severe kidney  
26 damage and experience a chronic loss of phosphorus, leading to bone mineral density loss and  
27 premature osteoporosis. The authors recommended that all TDF patients be monitored for signs of  
28

1 tubular damage so that a switch in therapy could be considered in the event of progressive  
2 deterioration.

3 342. A 2011 article, Hall AM *et al.*, “Tenofovir-associated kidney toxicity in HIV-infected  
4 patients: a review of the evidence,” conducted a literature review and further addressed the disconnect  
5 between results of studies examining markers of glomerular function with the nephrotoxicity seen in  
6 practice. The authors noted that prior studies tended to establish that TDF was not often significantly  
7 toxic to the glomerulus—which contrasted with the authors’ clinical experience in treating TDF  
8 patients for nephrotoxicity. In practice, TDF-associated nephrotoxicity was the authors’ most common  
9 reason for referral of HIV patients to specialist renal services. The authors explained that the main site  
10 of TDF toxicity was the proximal renal tubule (not the glomerulus) and that proximal tubule  
11 dysfunction may not be detected by measuring glomerular filtration.

12 343. Because (a) TDF-associated nephrotoxicity can occur in patients without obvious risks  
13 factors and at highly variable times after the initiation of therapy, and (b) standard tests of glomerular  
14 function are insufficiently sensitive to detect early or mild cases of nephrotoxicity, the authors  
15 concluded that all patients on TDF should be carefully and routinely monitored (every 3 months during  
16 the first year then twice yearly) for signs of both glomerular and tubular dysfunction so that long-term  
17 effects on kidney and bone health can be assessed.

18 344. A 2012 paper, Scherzer, R., *et al.*, “Association of Tenofovir Exposure with Kidney  
19 Disease Risk in HIV Infection,” discussed the authors’ study of 10,841 HIV-infected patients from the  
20 Veterans Health Administration to assess the associations of tenofovir with kidney disease outcomes.  
21 The authors found that each year of tenofovir exposure was associated with a 34% increased risk of  
22 proteinuria, 11% increased risk of rapid decline in kidney function, and 33% increased risk of chronic  
23 kidney disease. The results provided “strong evidence that tenofovir may cause clinically significant  
24 toxicity to the kidney that is not reversible.” The study also demonstrated that traditional risk factors  
25 did not worsen the effects of tenofovir. The authors concluded that “while traditional risk factors such  
26  
27  
28

1 as hypertension, older age, and diabetes may increase the risk for kidney disease, tenofovir is  
2 associated with elevated risk even in patients without preexisting risk factors.”<sup>68</sup>

3 345. The authors explained the strength of their results in light of the study’s large patient  
4 population and inclusion of patients who are often excluded from clinical trials or do not qualify or  
5 volunteer for cohort studies. The authors contrasted their study with the design of previous studies  
6 which made them less able to detect statistically significant associations between tenofovir use and  
7 kidney disease.

8 346. A 2013 paper, Reynes, J., *et al.*, “Tubular and glomerular proteinuria in HIV-infected  
9 adults with estimated glomerular filtration rate  $\geq 60$  ml/min per 1.73,” recommended that all TDF  
10 patients be systematically monitored for markers of tubular injury in light of the authors’ finding that  
11 nearly 20% of 1200 patients had proteinuria even though they had a normal creatinine-based estimated  
12 glomerular filtration rate.

13 347. And a 2014 paper, Bonjoch, A., *et al.*, “High prevalence of signs of renal damage  
14 despite normal renal function in a cohort of HIV-infected patients: evaluation of associated factors,”  
15 also found that signs of renal damage were “highly frequent” even in patients with a normal estimated  
16 glomerular filtration rate. The authors concluded that the data demonstrated the need for early  
17 detection of renal injury, even in patients with normal renal function.

18 348. These papers, and others in this timeframe that demonstrated a high percentage of TDF  
19 patients with proximal renal tubular dysfunction, stand in stark contrast to Gilead’s Viread clinical  
20 trials and subsequent attempts to maintain that only some TDF patients are at risk. Unlike the Viread  
21 clinical trials, these papers showed significant nephrotoxicity of TDF—with toxicity occurring at a  
22 high frequency and high risks of kidney disease outcomes looming even in patients with normal  
23 glomerular function and without traditional risk factors.

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<sup>68</sup> The FDA cited the Scherzer study in connection with its medical review of the Stribild NDA in  
27 July 2012. At most, this demonstrates the FDA’s knowledge of this study as of July 2012—  
28 approximately 4 years after the CBE regulation requiring “newly acquired information” became  
effective. Plaintiffs do not assert post-FDA approval failure to warn claims with respect to Stribild.

1           349. The clinical trials reported that the frequency of renal events leading to drug  
2 discontinuation was low (0.4%). Despite these results, Gilead knew that the potential for TDF to be  
3 toxic was high, particularly in real world settings over the long-term. And, indeed, multiple  
4 retrospective studies have demonstrated that the rate of renal adverse events leading to drug  
5 discontinuation was many times higher than what was reported in clinical trials. For example, the 2011  
6 paper, “Tenofovir-induced renal toxicity in 324 HIV-infected antiretroviral-naïve patients,” found that  
7 drug discontinuation due to decline in GFR or tubular dysfunction was 9.2%.

8           350. Postmarketing adverse event reports did not put the FDA on notice of the frequency or  
9 severity of the risk. Adverse event reports underreport the true incidence of adverse events because  
10 they are based on voluntary reporting. And they do not reflect the damage TDF inflicts on kidneys and  
11 bones before renal function declines, the risk of future adverse kidney or bone outcomes, nor the  
12 benefits of frequent, careful monitoring of all patients for early signs of nephrotoxicity as demonstrated  
13 by these new studies.

14           351. Further, there is no evidence that Gilead submitted to the FDA analyses demonstrating  
15 that TDF patients have a high frequency of renal damage or the true extent of the risk nephrotoxicity  
16 poses to all TDF patients even if they have normal glomerular function or do not have preexisting risk  
17 factors.

18           352. Gilead did not submit analyses to the FDA establishing the full extent of the frequency  
19 or severity of risk that TDF poses to all patients, nor did it tell the FDA that the one marker of kidney  
20 function Gilead was warning doctors to monitor in all patients after May 21, 2007 could not adequately  
21 detect the type of kidney injury that was frequently occurring in all TDF patients (and, which left  
22 unchecked, would cause more severe kidney injury and also harm patients’ bones). Gilead could have  
23 analyzed the accumulating data demonstrating the higher frequency and severity of the risk to all TDF  
24 patients and strengthened its warnings, but did not.

25           353. Until the FDA’s review of the Stribild NDA in 2012, there is no evidence that the  
26 agency reviewed any medical literature regarding TDF or other analyses describing how post-approval  
27 renal and bone injury and/or adverse events were occurring at a frequency or severity much greater  
28 than that reported in the registrational clinical trials. The FDA based its approval of Viread on the



1 preclinical data and clinical trials Gilead submitted in its Viread NDA. After Viread was approved, the  
2 FDA based its approvals of the Truvada, Atripla, and Complera NDAs on Gilead’s data showing the  
3 bioequivalence of those combination drugs to their individual components. The FDA’s approvals of  
4 Truvada, Atripla, and Complera were not based on any new clinical studies or other analyses regarding  
5 safety of TDF. When the FDA conducted a more searching review in connection with the Stribild  
6 NDA, Gilead proposed and the FDA approved stronger monitoring warnings for Stribild, which  
7 included recommending the monitoring of all patients for glomerular and tubular injury.

8 354. Unlike in the U.S., Gilead did warn—since 2002—physicians in the EU to frequently  
9 monitor all patients for both glomerular (creatinine clearance) and tubular (serum phosphorus) injury.  
10 In fact, after Gilead received FDA approval to market each of the TDF Drugs, it repeatedly determined  
11 to give stronger monitoring warnings for the exact same TDF Drugs in the EU. Upon information and  
12 belief, Gilead did not disclose to the FDA that it gave stronger monitoring warnings in the EU for the  
13 exact same products nor did it disclose its scientific or medical reasons for doing so.

14 355. In addition, once Gilead finally launched the safer TAF-based drugs (after approval of  
15 the TDF Drugs) it also gave stronger monitoring warnings for the safer TAF drugs than it gave in the  
16 TDF Drugs’ labels, including recommending that doctors monitor all patients for both glomerular and  
17 tubular injury.

18 356. The FDA would not have rejected a label change strengthening monitoring  
19 recommendations to protect all patients from risks of TDF-induced kidney and bone adverse effects.  
20 In 2018, the FDA did, in fact, approve labels including stronger monitoring warnings for Viread,  
21 Truvada, Atripla, and Complera, like it did for the safer TAF drugs years earlier.

## 22 VI. TOLLING OF THE STATUTE OF LIMITATIONS

23 357. Gilead misrepresented that TAF was “new” despite knowing that it had discovered the  
24 benefits of TAF even before Viread was approved in 2001.

25 358. Gilead misrepresented the reasons that it shelved TAF in 2004, asserting that TAF could  
26 not be differentiated from TDF when it knew that TAF was, in fact, highly differentiated from TDF.

27 359. Gilead concealed that it shelved TAF in 2004 in order to extend the lifecycle of its HIV  
28 product portfolio while patients were injured by TDF-induced kidney and bone toxicity.

1           360. Gilead misrepresented that it renewed development of TAF because of the needs of an  
2 aging HIV population. Gilead knew by 2004 when it halted TAF development that, as a result of cART,  
3 many HIV patients had a normal life expectancy.

4           361. For years, Gilead has publicized the pretext for its decision to halt and then renew TAF  
5 development in order to conceal the existence of Plaintiffs' claims.

6           362. Gilead concealed that it did not reduce the dose of TDF in Stribild even though it knew  
7 to reduce the tenofovir prodrug dose when combined with cobicistat.

8           363. Gilead concealed the true risk of kidney and bone injuries TDF posed to patients who  
9 did not have preexisting risk factors for such injuries and concealed from U.S. doctors and patients  
10 what it knew about the need to monitor all patients for TDF associated toxicity.

11           364. Because of Gilead's misrepresentations and omissions, plaintiffs did not know and had  
12 no reason to suspect that Gilead's wrongdoing was the cause of their injuries and could not have  
13 discovered their claims.

14           365. No reasonable person taking TDF-based drugs and experiencing kidney and bone  
15 toxicities would have suspected that Gilead purposefully withheld a safer design that would have  
16 ameliorated those very side effects.

17           366. No reasonable person without prior risk factors for renal or bone harm taking TDF-  
18 based drugs and experiencing kidney and bone toxicities would have suspected that Gilead failed to  
19 adequately warn them because the label misleadingly suggests that only patients with preexisting risk  
20 factors were in danger.

21           367. No reasonable person would have suspected that Gilead provided stronger warnings to  
22 patients and doctors in the EU than it did in the U.S. for the exact same TDF products.

23           368. Gilead's misrepresentations and omissions would lead a reasonable person to believe  
24 that he or she did not have a claim for relief.

25           369. Because of Gilead's misrepresentations and omissions, neither Plaintiffs nor any  
26 reasonable person would have had reason to conduct an investigation. Once Plaintiffs suspected that  
27 Gilead's wrongdoing was the cause of their injuries, they were diligent in trying to uncover the facts.

1 370. Gilead’s misrepresentations and omissions regarding its refusal to earlier market TAF-  
2 designed products and the true risks of TDF constitute continuing wrongs that continue to this day.

3 **VII. CLAIMS FOR RELIEF<sup>69</sup>**

4 **COUNT I**

5 **STRICT PRODUCTS LIABILITY – DESIGN DEFECT**  
6 **UNDER THE LAWS OF THE STATES OF ALABAMA,<sup>70</sup> ARIZONA, GEORGIA,**  
7 **ILLINOIS, IOWA, NEW YORK, OKLAHOMA, OREGON, TENNESSEE, TEXAS AND**  
8 **WEST VIRGINIA**

9 371. Plaintiffs reallege and incorporate the allegations made above as if fully set forth below.

10 372. Plaintiffs assert pre-approval design defect claims.

11 373. Gilead is the manufacturer and seller of the TDF Drugs.

12 374. The TDF Drugs reached Plaintiffs without substantial change to the condition in which  
13 they were sold.

14 375. The TDF Drugs are unreasonably dangerous and unsafe for their intended purpose  
15 because they include TDF, which causes kidney and bone toxicity, as the design for delivering  
16 tenofovir to the body. The design defect existed in these products at the time they left Gilead’s  
17 possession.

18 376. Stribild is also unreasonably dangerous and unsafe for its intended purpose because it  
19 combines 300 mg TDF with cobicistat, which enhances TDF toxicity. The design defects existed in  
20 Stribild at the time it left Gilead’s possession.

21 377. The TDF Drugs are not as safe as current technology could make them, nor were they  
22 as safe as then-current technology could make them when Gilead first manufactured and distributed  
23 each of the TDF Drugs.

24 378. The TDF Drugs were not incapable of being made safe at the time of manufacture and  
25 distribution. Gilead knew, before it manufactured and distributed each of the TDF Drugs, that TAF  
26 was more potent than TDF and reduced the risk of kidney and bone toxicity compared to TDF. Gilead

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27 <sup>69</sup> Plaintiffs assert claims under the laws of the states in which they reside or ingested the relevant  
28 TDF Drugs.

<sup>70</sup> The Alabama Plaintiffs assert their claims under the judicially-created Alabama Extended  
Manufacturer’s Liability Doctrine (“AEMLD”).

1 also knew that it could reduce the dose of TDF in Stribild and achieve the same antiviral response with  
2 less kidney and bone toxicity. The TDF Drugs are therefore not unavoidably unsafe.

3 379. The risks of patient harm associated with TDF-induced kidney and bone toxicity were  
4 both known to and foreseeable to Gilead.

5 380. Gilead could have reduced or prevented the foreseeable risks of harm associated with  
6 TDF by adopting a reasonable and feasible alternative design before FDA approval. Gilead could have  
7 incorporated the safer TAF design, which it knew reduces the risks of kidney and bone toxicity and is  
8 safer than TDF, into the TDF Drugs before they were approved by the FDA. Gilead did utilize the  
9 TAF design instead of TDF in other FDA-approved products that are identical to the TDF Drugs except  
10 for the substitution of TAF for TDF. Gilead markets its TAF-designed products as safer than the TDF  
11 Drugs and advocates that doctors switch their patients from a TDF-designed to a TAF-designed  
12 product because of TAF's superior safety profile with respect to kidney and bone toxicity.

13 381. A drug product containing TAF could have and would have been FDA approved and  
14 on the market years earlier if Gilead had not purposefully shelved the TAF design for approximately  
15 six years in order to make more money.

16 382. Gilead could have reduced or prevented the foreseeable risks of harm associated with  
17 Stribild by adopting another reasonable and feasible alternative design before FDA approval. Gilead  
18 could have reduced the dose of TDF in Stribild before it was approved by the FDA because, as it knew  
19 for years, tenofovir concentrations rise significantly when tenofovir is combined with a boosting agent  
20 like cobicistat. The reasonableness and feasibility of this alternative design is demonstrated by, *inter*  
21 *alia*, the fact that Gilead reduced the dose of the tenofovir prodrug TAF in Genvoya, which is identical  
22 to Stribild except for the substitution of TAF for TDF.

23 383. The likelihood and severity of the kidney and bone injuries suffered by patients like  
24 Plaintiffs far outweighed Gilead's burden in taking safety measures to reduce or avoid the harm. Given  
25 the sheer number of people taking the TDF Drugs, including over the long-term, there was a high  
26 likelihood that TDF would injure a very large number of patients, and that a significant number of  
27 those injuries would be irreversible. Gilead's burden was small. Gilead had already discovered the  
28

1 safer TAF method of introducing tenofovir into the body before it sought FDA approval for each of  
2 the TDF Drugs and using the TAF design would have no adverse impact on the utility of the products.

3 384. TAF-based alternative designs, and a reduced TDF dose design of Stribild, would have  
4 accomplished the product's purpose at lesser risk. This is how Gilead markets its TAF-designed  
5 products today—as equally or more effective than the TDF Drugs with a reduced risk of kidney and  
6 bone toxicity.

7 385. Gilead knew that ordinary patients would use the TDF Drugs without knowledge of the  
8 hazards involved in such use. The TDF Drugs failed to perform as an ordinary consumer would expect.

9 386. Gilead knowingly designed its TDF Drugs with TDF rather than safer TAF to maximize  
10 profits on its portfolio of TDF profits and extend the lifecycle of its HIV franchise, which formed the  
11 backbone of Gilead's operations. Gilead withheld its safer TAF design to make more money at the  
12 expense of patients' health.

13 387. The benefit in promoting enhanced accountability through strict products liability  
14 outweighs the benefit of a product that Gilead should have and could have made safer years earlier.

15 388. Plaintiffs ingested one or more of the TDF Drugs for an approved purpose and  
16 experienced bone and/or kidney injuries while taking TDF.

17 389. Plaintiffs' bone and kidney toxicity-related injuries were directly and proximately  
18 caused by TDF while Plaintiffs used the TDF Drugs in a reasonably foreseeable manner.

19 **COUNT II**

20 **STRICT PRODUCTS LIABILITY – FAILURE TO WARN**  
21 **UNDER THE LAWS OF THE STATES OF ALABAMA, ARIZONA, GEORGIA, ILLINOIS,**  
22 **NEW YORK, OKLAHOMA, OREGON, TENNESSEE, AND WEST VIRGINIA**

23 390. Plaintiffs reallege and incorporate the allegations made above as if fully set forth below.

24 391. Plaintiffs allege failure to warn claims based on Gilead's ability to strengthen its U.S.  
25 labels before FDA approval for all TDF Drugs and after FDA approval for Viread, Truvada, Atripla,  
26 and Complera through July 2012.

27 392. Gilead is the manufacturer and seller of the TDF Drugs.

1           393.    Gilead was aware of the risks TDF posed to patients’ kidneys and bones, and the risks  
2 TDF posed to patients’ kidneys and bones were knowable, at the time Gilead manufactured, sold, or  
3 distributed the TDF Drugs.

4           394.    The risks TDF posed to patients’ kidneys and bones were known or knowable in light  
5 of the scientific and medical knowledge available at the time of manufacture and distribution.

6           395.    The need to frequently monitor all TDF patients for kidney toxicity using more than  
7 one insufficient marker of kidney function to ensure the safe use of TDF was known or knowable in  
8 light of the scientific and medical knowledge available at the time of manufacture and distribution of  
9 the TDF Drugs.

10          396.    TDF posed a substantial danger to patients’ kidneys and bones.

11          397.    Ordinary consumers and physicians would not have recognized the potential risks TDF  
12 posed to patients’ kidneys and bones.

13          398.    Gilead failed to adequately warn Plaintiffs and Plaintiffs’ physicians about the risks  
14 TDF posed to patients’ kidneys and bones, and the proper and safe use of the TDF Drugs.

15          399.    The inadequate warnings and instructions Gilead did provide were minimized, eroded,  
16 and nullified by Gilead’s improper promotion of the TDF Drugs to doctors.

17          400.    Gilead failed to adequately warn Plaintiffs and Plaintiffs’ physicians that all TDF  
18 patients needed to be monitored frequently, on a specific schedule, for TDF-associated toxicity.

19          401.    Gilead failed to adequately warn Plaintiffs and Plaintiffs’ physicians that all TDF  
20 patients’ kidney function needs to be monitored by measuring more than one insufficient marker of  
21 kidney function.

22          402.    Plaintiffs were injured by using TDF in a reasonably foreseeable way.

23          403.    The lack of adequate warnings and instructions was a substantial factor in causing  
24 Plaintiffs’ injuries.

25          404.    Had Gilead adequately warned and instructed Plaintiffs, Plaintiffs would have taken the  
26 TDF Drugs in a safer way.

27          405.    Had Gilead adequately warned and instructed Plaintiffs’ doctors, Plaintiffs’ doctors  
28 would have read and heeded such adequate warnings and instructions.





1 strengthen its U.S. labels before FDA approval for all TDF Drugs and after FDA approval for Viread,  
2 Truvada, Atripla, and Complera through July 2012.

3 414. The TDF Drugs are defective in design because Gilead had reason to anticipate the  
4 danger of the TDF Drugs that may result from a particular use and failed to give adequate warning of  
5 such danger.

6 415. The defective and unreasonably dangerous condition of the TDF Drugs proximately  
7 caused Plaintiffs' injuries and damages for which recovery is sought.

8 **COUNT IV**

9 **INDIANA PRODUCTS LIABILITY ACT, BURNS IND. CODE ANN. §§ 34-20-1-1 *ET SEQ.***

10 416. Indiana Plaintiffs reallege and incorporate the allegations made above as if fully set  
11 forth below, including but not limited to, the allegations specifically contained in the paragraphs  
12 corresponding to Counts I and II above.

13 417. Plaintiffs assert pre-approval design defect claims.

14 418. Gilead sold or otherwise put the TDF Drugs into the stream of commerce in a defective  
15 condition unreasonably dangerous to users and consumers like Plaintiffs.

16 419. The TDF Drugs are defective in design and because Gilead failed to adequately warn  
17 about the dangers and proper use of the products. Plaintiffs allege failure to warn claims based on  
18 Gilead's ability to strengthen its U.S. labels before FDA approval for all TDF Drugs and after FDA  
19 approval for Viread, Truvada, Atripla, and Complera through July 2012.

20 420. Indiana Plaintiffs are in the class of persons that Gilead should reasonably foresee as  
21 being subject to the harm caused by the TDF Drugs' defective condition.

22 421. Gilead is in the business of selling pharmaceuticals like the TDF Drugs.

23 422. The TDF Drugs were expected to and did reach users and consumers like Plaintiffs  
24 without substantial alteration in the condition in which Gilead sold them.

25 423. At the time Gilead conveyed the TDF Drugs to another party, and before FDA approval,  
26 the TDF Drugs were in a defective condition not contemplated by reasonable persons among those  
27 considered expected users or consumers of the products and that will be unreasonably dangerous to  
28 the expected user or consumer when used in reasonably expected ways of handling or consumption.





**COUNT VII**

**OHIO PRODUCT LIABILITY ACT, OHIO REV. CODE ANN. §§ 2307.71 *ET SEQ.***

444. Ohio Plaintiffs reallege and incorporate the allegations made above as if fully set forth below, including but not limited to, the allegations specifically contained in the paragraphs corresponding to Counts I and II above.

445. Plaintiffs assert pre-approval design defect claims.

446. At the time the TDF Drugs left Gilead's control, and before FDA approval, the foreseeable risks associated with the design exceeded the benefits of the design.

447. At the time the TDF Drugs left Gilead's control, and before FDA approval, there existed a practical and technically feasible alternative design or formulation that would have prevented the harm for which Plaintiffs seek to recover compensatory damages without substantially impairing the usefulness or intended purpose of the product.

448. The TDF Drugs were and are not unavoidably unsafe. Based on the state of technical, scientific and medical knowledge at the time the TDF Drugs left Gilead's control, and before FDA approval, Gilead could have made the TDF Drugs safe by utilizing the TAF design.

449. At the time the TDF Drugs left Gilead's control, and before FDA approval, Gilead knew, or in the exercise of reasonable care, should have known about the risk of TDF-induced kidney and bone toxicity and Gilead failed to provide the warning or instruction that a manufacturer exercising reasonable care would have provided regarding that risk, in light of the likelihood that the product would cause harm to patients' kidneys and bones and the severity of that harm.

450. Plaintiffs allege failure to warn claims based on Gilead's ability to strengthen its U.S. labels before FDA approval for all TDF Drugs and after FDA approval for Viread, Truvada, Atripla, and Complera through July 2012.

451. At the relevant time after the TDF Drugs left Gilead's control, and before FDA approval, Gilead knew, or in the exercise of reasonable care, should have known about the risk of TDF-induced kidney and bone toxicity and Gilead failed to provide the post-marketing warning or instruction that a manufacturer exercising reasonable care would have provided regarding the risks, in

1 light of the likelihood that the product would cause harm to patients' kidneys and bones and the  
2 severity of that harm.

3 452. At the time the TDF Drugs left Gilead's control, and before FDA approval, they did not  
4 conform to Gilead's representations regarding the safety of the drugs.

5 453. The defective condition of the TDF Drugs proximately caused Ohio Plaintiffs' injuries  
6 and damages for which recovery is sought.

7 **COUNT VIII**

8 **NEGLIGENCE AND GROSS NEGLIGENCE**  
9 **UNDER THE LAWS OF THE STATES OF ALABAMA, ARIZONA, GEORGIA, IDAHO,**  
10 **ILLINOIS, IOWA, NEW YORK, OHIO, OKLAHOMA, OREGON, PENNSYLVANIA,**  
11 **TENNESSEE, TEXAS, VIRGINIA, AND WEST VIRGINIA**

12 454. Plaintiffs reallege and incorporate the allegations made above as if fully set forth below.

13 455. Gilead has a duty to exercise ordinary care in the design, manufacture, marketing, and  
14 sale of its pharmaceutical products, including the TDF Drugs.

15 456. Gilead has a duty to refrain from selling unreasonably dangerous products, including  
16 the duty to ensure that its pharmaceutical products do not cause patients to suffer from foreseeable  
17 risks of harm.

18 457. Gilead has a duty to monitor the adverse effects associated with its pharmaceutical  
19 products, including the TDF Drugs.

20 458. Gilead has a continuing duty to warn of the adverse effects associated with its  
21 pharmaceutical products, including the TDF Drugs, to avoid reasonably foreseeable risks.

22 459. Gilead has a duty to identify any laboratory tests helpful in identifying adverse reactions  
23 and the recommended frequency with which such tests should be performed.

24 460. Gilead has a duty to exercise reasonable care when it undertakes affirmative acts for  
25 the protection of others.

26 461. Gilead owes these duties to Plaintiffs because it was foreseeable to Gilead that patients  
27 like Plaintiffs would ingest and consequently be endangered by its TDF Drugs.

28 462. Gilead knew that the TDF design it incorporated into the TDF Drugs was associated  
with risks of kidney and bone toxicity and caused injuries that resulted from kidney and bone toxicity—

1 including in patients not otherwise at risk for such injuries. Gilead’s knowledge that TDF harmed  
2 patients’ kidneys and bones only grew with each year TDF was on the market. By the time Stribild  
3 entered the market, Gilead had more than a decade’s worth of knowledge that TDF was toxic to kidneys  
4 and bones.

5 463. Gilead knew that combining 300 mg of TDF with cobicistat resulted in even greater  
6 toxicity, and that it could reduce the tenofovir prodrug dose when combined with cobicistat and achieve  
7 the same therapeutic effects. Despite this knowledge, Gilead did not reduce the TDF dose in Stribild.

8 464. Gilead knew, before its first TDF Drug and every subsequent TDF Drug was approved  
9 by the FDA, that TAF is safer than TDF in that it reduces the risks of kidney and bone toxicities  
10 associated with TDF. Despite knowing that TAF would reduce foreseeable harm to patients’ kidneys  
11 and bones, Gilead repeatedly incorporated the TDF design into the TDF Drugs prior to FDA approval  
12 and prevented patients from taking a safer TAF-based product so Gilead could make more money.

13 465. Based, *inter alia*, on its duty to monitor the adverse effects associated with Viread,  
14 Truvada, Atripla, Complera, and Stribild, Gilead knew that the likelihood and severity of the harm  
15 associated with TDF was great. Thousands of patients experienced damage to their kidneys and bones  
16 as a result of TDF exposure—some of it severe and irreversible. The likelihood and severity of the  
17 kidney and bone injuries suffered by patients like Plaintiffs far outweighed Gilead’s burden in taking  
18 safety measures to reduce or avoid the harm. Gilead had already designed the safer TAF method of  
19 introducing tenofovir into the body before it sought FDA approval for the TDF Drugs. Gilead had also  
20 reduced the TAF dose when combined with cobicistat in Genvoya, when it was developing Stribild.

21 466. Gilead failed to exercise ordinary care in the design, manufacture, and sale of the TDF  
22 Drugs.

23 467. Gilead failed to use the amount of care in designing the TDF Drugs that a reasonably  
24 careful manufacturer would have used before FDA approval to avoid exposing patients to foreseeable  
25 risks of harm.

26 468. Gilead undertook to develop and market a safer TAF-designed product to sell to  
27 wholesalers and other direct purchasers of pharmaceuticals. Gilead recognized that its development  
28 and marketing of safer TAF-designed products was for the protection of patients like Plaintiffs. By

1 shelving the safer TAF design purely for monetary gain and deceptively representing why it was  
2 abandoning the safer TAF design, Gilead failed to exercise reasonable care in the performance of this  
3 undertaking that increased the risk of harm to patients like Plaintiffs. Gilead's failure to exercise  
4 reasonable care resulted in physical harm to Plaintiffs.

5 469. Gilead failed to use the amount of care in warning about the risks and safe use of the  
6 TDF Drugs that a reasonably careful manufacturer would have used to avoid exposing patients to  
7 foreseeable risks of harm.

8 470. Gilead knew or reasonably should have known that the TDF Drugs were dangerous or  
9 likely to be dangerous when used in a reasonably foreseeable manner.

10 471. Gilead knew or reasonably should have known that Plaintiffs and Plaintiffs' physicians  
11 would not realize the danger posed by inadequate monitoring of patients taking TDF Drugs.

12 472. Gilead failed to adequately warn Plaintiffs and Plaintiffs' physicians about the need to  
13 monitor all patients taking the TDF Drugs. For years, Gilead failed to recommend that doctors monitor  
14 anyone other than patients "at risk" for TDF-induced kidney and/or bone injuries. When Gilead finally  
15 added a weak instruction regarding the monitoring of all patients for kidney damage, it only warned  
16 doctors to monitor patients for one insufficient marker of kidney dysfunction that was incapable of  
17 detecting many dangerous changes in kidney dysfunction, and failed to warn doctors to monitor TDF  
18 patients on a frequent schedule. Gilead's monitoring warnings with respect to "at risk" Viread,  
19 Truvada, Atripla, Complera, and Stribild users were also inadequate because they failed to warn  
20 doctors to monitor patients on a specific, frequent schedule.

21 473. Gilead could have unilaterally strengthened its U.S. labels before FDA approval for all  
22 TDF Drugs and after FDA approval for Viread, Truvada, Atripla, and Complera through July 2012.

23 474. A reasonable manufacturer and seller under the same or similar circumstances would  
24 have instructed Plaintiffs and Plaintiffs' physicians on the safe use of the TDF Drugs, i.e., use where  
25 doctors frequently monitored all TDF patients for TDF-associated toxicity, including monitoring for  
26 kidney damage using more than one inadequate test. Gilead knew to warn doctors to frequently monitor  
27 all patients for kidney damage using more than one inadequate test because it did so in the European  
28 Union.



1           475. Gilead’s failure to adequately warn Plaintiffs and Plaintiffs’ doctors about the need to  
2 monitor TDF Drug patients was compounded by Gilead’s omissions to doctors during sales detailing  
3 and other promotional activities. Gilead’s misleading promotion of the TDF Drugs undermined the  
4 efficacy of its existing (inadequate) warnings.

5           476. Plaintiffs were injured by using TDF in a reasonably foreseeable way.

6           477. The lack of adequate warnings was a substantial factor in causing Plaintiffs’ injuries.

7           478. Had Gilead adequately warned Plaintiffs’ doctors, Plaintiffs’ doctors would have read  
8 and heeded such adequate warnings.

9           479. Plaintiffs’ properly warned physicians would have monitored Plaintiffs differently—by  
10 frequently monitoring Plaintiffs using sufficiently sensitive markers of kidney function that would  
11 have alerted doctors to early signs of nephrotoxicity, including tubular damage that leads to more  
12 severe renal adverse events and bone mineral density loss. Once they recognized the signs of  
13 nephrotoxicity, Plaintiffs’ physicians would have taken further action after weighing their treatment  
14 options, such as increased monitoring, less frequent dosing, or drug discontinuation, before the damage  
15 manifested, worsened, or became irreversible. Plaintiffs’ properly warned physicians would have  
16 detected TDF toxicity earlier, thus preventing or lessening Plaintiffs’ injuries.

17           480. Plaintiffs were injured as a direct and proximate result of Gilead’s negligence.

18           481. Gilead’s conduct constitutes gross negligence and willful misconduct.

19           482. By designing the TDF Drugs to contain TDF when it knew TDF harmed patients’  
20 kidneys and bones, and intentionally withholding the safer TAF design from patients, while failing to  
21 adequately warn of the known risks and safe use of TDF, Gilead acted in reckless disregard of, or with  
22 a lack of substantial concern for, the rights of others. By designing Stribild to contain 300 mg TDF  
23 when it knew to reduce the tenofovir prodrug dose with combined with cobicistat, Gilead acted in  
24 reckless disregard of, or with a lack of substantial concern for, the rights of others.

25           483. Gilead intentionally designed the TDF Drugs to contain 300 mg TDF and withheld the  
26 safer designs from patients while in disregard of the known risk of TDF-induced kidney and/or bone  
27 toxicity, making it highly probable that harm would result.



1 prodrug when combining it with cobicistat at the time it was developing Stribild but Gilead did not  
2 reduce the TDF dose in Stribild as it did with Genvoya; (e) Gilead purposefully withheld the TAF  
3 design, which it knew was safer than TDF, solely to make more money; and (f) Gilead knew to warn  
4 doctors to frequently monitor all patients for the adverse effects of TDF toxicity using more than one  
5 insufficient marker of kidney function even though it did not do so in its warnings to doctors in the  
6 U.S.

7 492. Gilead knew that this information was not readily available to Plaintiffs and their  
8 doctors, and Plaintiffs and their doctors did not have an equal opportunity to discover the truth.  
9 Plaintiffs and their doctors had no practicable way of discovering the true state and timing of Gilead's  
10 knowledge.

11 493. Gilead intentionally omitted adequate warnings about the risks and safe use of TDF  
12 when promoting the TDF Drugs to doctors and patients by, *inter alia*, omitting information about the  
13 frequency and severity of adverse kidney and bone events and failing to tell doctors to adequately  
14 monitor TDF patients for drug-induced toxicity.

15 494. Gilead intentionally omitted from its prescriber and patient labeling an adequate  
16 warning regarding the need for doctors to monitor all TDF patients, on a frequent, specific schedule,  
17 for the adverse effects of TDF-associated bone and kidney toxicity. Gilead intentionally omitted an  
18 adequate monitoring warning in order to conceal the true risk of its TDF-based antiviral products, and  
19 to inflate sales by inducing doctors to prescribe, and patients like Plaintiffs to consume, its TDF Drugs.  
20 Gilead could have unilaterally strengthened its U.S. labels before FDA approval for all TDF Drugs  
21 and after FDA approval for Viread, Truvada, Atripla, and Complera through July 2012.

22 495. By providing inadequate warnings that were contrary to those it gave with respect to  
23 the exact same drugs in the EU, Gilead partially disclosed material facts. Gilead had a duty of complete  
24 disclosure once it began to speak.

25 496. Plaintiffs and their doctors justifiably relied on Gilead's product labeling and other  
26 representations.

27 497. Had Gilead not omitted this information about the safe use of its drugs from the  
28 prescriber and patient labeling, doctors would have performed, and patients would have insisted upon,

1 frequent and adequate monitoring for the kidney and bone problems that have injured Plaintiffs. But  
2 for Gilead's omissions, Plaintiffs would have consumed the TDF Drugs in a safer way.

3 498. If Plaintiffs had been adequately monitored for kidney and bone problems while taking  
4 TDF, they would not have been injured or their injuries would have been less severe.

5 499. Gilead intentionally concealed from Plaintiffs and their doctors the fact that Gilead had  
6 already developed the safer TAF mechanism but designed the TDF Drugs to contain TDF instead of  
7 the safer TAF design in order to maximize profits on its TDF-based products and extend its ability to  
8 profit on its HIV franchise for years to come.

9 500. Gilead also intentionally concealed from Plaintiffs and their doctors that Gilead knew  
10 that the tenofovir prodrug dose should be reduced when combined in a fixed dose combination pill  
11 with cobicistat, but did not reduce the TDF dose in Stribild as it did with Genvoya.

12 501. By concealing that Gilead was aware of but had withheld the safer designs, Gilead  
13 intended to and did induce Plaintiffs' doctors to prescribe, and Plaintiffs to ingest, one or more of the  
14 TDF Drugs, thereby causing Plaintiffs' injuries.

15 502. Plaintiffs and their doctors justifiably relied on Gilead's omissions regarding TAF.

16 503. Had Gilead disclosed that it was aware of, but intentionally withheld, the safer TAF  
17 mechanism for delivering tenofovir into the body, Plaintiffs would have ingested TDF in a safer  
18 manner.

19 504. Plaintiffs' doctors would have ensured that Plaintiffs ingested TDF in a safer manner  
20 through increased and/or more careful monitoring for TDF-induced kidney and bone toxicity, or by  
21 prescribing TDF without coadministration with cobicistat.

22 505. Plaintiffs were injured as a direct and proximate result of Gilead's material omissions.

23 **COUNT X**

24 **BREACH OF IMPLIED WARRANTY OF MERCHANTABILITY UNDER THE LAWS**  
25 **OF THE STATES OF ALABAMA, ILLINOIS, IOWA, NEW YORK, OREGON,**  
**TENNESSEE, TEXAS, VIRGINIA, AND WEST VIRGINIA**

26 506. Plaintiffs reallege and incorporate the allegations made above as if fully set forth below.

27 507. Gilead is the manufacturer and seller of the TDF Drugs.

1           508. An implied warranty of fitness for human consumption runs from Gilead to consumers  
2 like Plaintiffs.

3           509. Gilead impliedly warranted to Plaintiffs and their doctors that the TDF Drugs were of  
4 merchantable quality, and fit and safe for the use for which they were intended.

5           510. Plaintiffs ingested the TDF Drugs for the treatment of HIV, Hepatitis B, or PrEP, which  
6 is the purpose for which the drugs were manufactured, sold, and prescribed.

7           511. Plaintiffs relied on Gilead's skill or judgment to provide a product suitable for this  
8 purpose. Gilead is in the business of designing, manufacturing, selling, and marketing prescription  
9 drugs and specializes in drugs for the treatment or prevention of HIV, and treatment of Hepatitis B.

10           512. Gilead had reason to know that Plaintiffs and their doctors would rely on Gilead's skill  
11 or judgment.

12           513. The TDF Drugs are unfit for the purpose for which they were purchased because they  
13 are toxic to patients' kidneys and bones when put to their intended and ordinary use, causing injuries  
14 to Plaintiffs.

15           514. The dangers the TDF Drugs posed to Plaintiffs' kidneys and bones were known and  
16 knowable to Gilead at the time of manufacture and sale. Yet Gilead marketed the TDF Drugs without  
17 adequate warnings about the risks or safe use of TDF of which it knew or should have known.

18           515. Plaintiffs suffered kidney and/or bone injuries as a result of ingesting the TDF Drugs.

19           516. In addition to the common law, the conduct alleged herein constitutes a breach of the  
20 implied warranty of merchantability under the Uniform Commercial Code as codified the following  
21 statutes:

- 22           a. Alabama, Code of Alabama § 7-2-314;
- 23           b. Illinois, 810 ILCS 5/2-314;
- 24           c. Iowa, Iowa Stat. § 554.2314;
- 25           d. New York, N.Y. U.C.C. § 2-314
- 26           e. Oregon, Or. Rev. Stat. § 72.3140;
- 27           f. Tennessee, Tenn. Code Ann. § 47-2-314;
- 28           g. Texas, Tex. Bus. & Com. Code § 2314;

1 h. Virginia, Va. Code Ann. § 8.2-314; and

2 i. West Virginia, W.Va. Code § 46-2-314.

3 517. On June 3, 2020, Plaintiffs sent a letter to Gilead via certified mail giving official notice  
4 of Gilead's breach of the implied warranty of merchantability under the laws of Alabama, Illinois,  
5 Iowa, New York, Oregon, Tennessee, Texas, Virginia and West Virginia. The notice letter is attached  
6 as Exhibit A.

7 **COUNT XI**

8 **VIOLATION OF STATE CONSUMER PROTECTION LAWS**

9 518. Plaintiffs reallege and incorporate the allegations made above as if fully set forth below.

10 519. Plaintiffs are consumers within the meaning of the following states' consumer  
11 protection laws because they are natural persons who purchased one or more of the TDF Drugs for  
12 personal, family, or household use.

13 520. The TDF Drugs are goods and merchandise within the meaning of the following states'  
14 consumer protection laws.

15 521. Gilead manufactured, sold, and marketed its TDF Drugs in trade or commerce,  
16 including within each of the 50 U.S. States.

17 522. Gilead engaged in unconscionable, unfair, false, fraudulent, misleading, and deceptive  
18 acts and practices in connection trade or commerce involving its TDF Drugs.

19 523. Gilead engaged in unfair and/or unconscionable conduct by knowingly designing its  
20 TDF Drugs to be unreasonably dangerous before FDA approval and withholding the safer designs to  
21 make more money.

22 524. Gilead also intentionally suppressed, concealed, and omitted material facts about the  
23 risks and benefits of the TDF Drugs in its promotional, marketing, and/or labeling communications to  
24 Plaintiffs and Plaintiffs' doctors, including, but not limited to: (1) the true frequency and severity of  
25 the risks of TDF to kidneys and bones; (2) that all TDF patients should be carefully monitored for  
26 adverse kidney and bone effects on a frequent schedule in light of the true risks of TDF; (3) that Gilead  
27 had already developed the safer TAF design for delivering tenofovir into the body but nevertheless  
28 designed the TDF Drugs to contain TDF, and withheld the safer TAF design, in order to avoid

1 admitting the toxicity of TDF, maximize profits on its TDF-based products, and extend its ability to  
2 profit on its HIV franchise for years to come; and (4) Gilead knew that the tenofovir prodrug dose  
3 should be reduced when combined in a fixed dose combination pill with cobicistat, but did not reduce  
4 the TDF dose in Stribild.

5 525. Gilead had a duty to disclose the omitted material facts about TDF and TAF because it:  
6 (a) was in possession of information about TDF and TAF that was not readily available to Plaintiffs  
7 and Plaintiffs' physicians; (b) made partial representations about TDF and TAF to Plaintiffs and  
8 Plaintiffs' physicians while suppressing material facts; and (c) actively concealed material information  
9 about TDF and TAF from Plaintiffs and Plaintiffs' physicians.

10 526. Gilead's conduct significantly impacted the public as actual or potential consumers of  
11 Gilead's TDF Drugs. Hundreds of thousands of consumers in the U.S. have ingested one or more of  
12 the TDF Drugs and Gilead has directed its misleading marketing and promotional messages to the  
13 market generally. Consumers like Plaintiffs are at an informational disadvantage and lack bargaining  
14 power relative to Gilead. Gilead's conduct has previously impacted other consumers and has  
15 significant potential to do so in the future.

16 527. Gilead's conduct was likely to mislead and did mislead reasonable consumers and  
17 members of the public.

18 528. Gilead's omissions were material and affected Plaintiffs' and Plaintiffs' doctors'  
19 conduct.

20 529. Gilead intended that others rely on its deceptive and misleading omissions regarding its  
21 TDF Drugs.

22 530. Plaintiffs and their doctors reasonably relied on Gilead's deceptive and misleading  
23 omissions regarding its TDF Drugs.

24 531. Plaintiffs' doctors prescribed, and Plaintiffs ingested, one or more of the TDF Drugs in  
25 reliance on Gilead's unconscionable, false, misleading and/or deceptive acts and omissions.

26 532. Plaintiffs were directly and proximately injured as a result of Gilead's deceptive  
27 conduct. But for Gilead's unfair and/or unconscionable conduct, Plaintiffs would have ingested a safer  
28 tenofovir-prodrug product, thus preventing or reducing Plaintiffs' injuries and monetary expenses in



1 connection with taking TDF. But for Gilead’s omissions, Plaintiffs would have ingested the TDF Drugs  
2 in a safer way—through more careful, frequent monitoring and/or by not taking Stribild (TDF in  
3 combination with cobicistat)—thus preventing or reducing Plaintiffs’ injuries and monetary expenses  
4 in connection therewith.

5 533. Plaintiffs suffered ascertainable losses as a result of Gilead’s violations of the state  
6 consumer protection statutes alleged herein. Plaintiffs will prove the full extent and amount of their  
7 damages at trial.

8 534. The conduct alleged herein violates the state consumer protection statutes as further  
9 alleged below.

10 **a. Alabama: Ala. Code §§ 8-19-1 et seq.**

11 535. Alabama Plaintiffs intend to assert a claim under the Alabama Deceptive Trade  
12 Practices Act, alleging that Gilead committed unconscionable, false, misleading and/or deceptive acts  
13 and practices in the conduct of trade or commerce in violation of Ala. Code § 8-19-5(27), and violated  
14 Ala. Code § 8-19-5(5) and (7) by deceptively representing, through partial representations and  
15 omissions, that the TDF Drugs have characteristics, benefits, and qualities they do not have, and are  
16 of a particular standard and quality when they are another.

17 536. On June 3, 2020, Alabama Plaintiffs made a written demand for relief in satisfaction of  
18 the Act and will amend this Complaint to add claims under the Act once the required notice period has  
19 elapsed. The notice letter is attached as Exhibit A.

20 537. These paragraphs are included for notice purposes only and are not intended to assert a  
21 claim under the Alabama Deceptive Trade Practices Act at this time.

22 **b. Arizona: Ariz. Rev. Stat. Ann. §§ 44-1521 et seq.**

23 538. Gilead committed false, deceptive, and unfair acts or practices and concealed,  
24 suppressed or omitted material facts with the intention that others rely on such concealment,  
25 suppression or omission in connection with the sale of the TDF Drugs in violation of Ariz. Rev. Stat.  
26 Ann. § 44-1522(A).

27 539. Arizona Plaintiffs suffered monetary damages as a proximate result of Gilead’s  
28 violation of the Arizona Consumer Fraud Act.

1           540. Arizona Plaintiffs seek their actual and punitive damages.

2                   **c. Illinois: 815 ILCS 505/1 et seq. and 815 ILCS 510 et seq.**

3           541. Gilead has engaged in the following conduct in violation of the Illinois Consumer Fraud  
4 and Deceptive Business Practices Act and Illinois Uniform Deceptive Trade Practices Act: 1) engaging  
5 in unfair methods of competition or deceptive acts or practices, including the use of any deception,  
6 fraud, false pretense, false promise, concealment, suppression or omission of any material fact, with  
7 the intent that others rely upon the concealment, suppression or omission of such material fact in the  
8 conduct of trade or commerce in violation of 815 ILCS 505/2; 2) deceptively representing, through  
9 partial representations and omissions, that the TDF Drugs have characteristics or benefits that they do  
10 not have in violation of 815 ILCS 510/2(a)(5); and 3) deceptively representing, through partial  
11 representations and omissions, that the TDF Drugs are of a particular standard, quality or grade when  
12 they are of another in violation of 815 ILCS 510/2(a)(7).

13           542. Gilead concealed material facts with the intent that others rely on the concealment of  
14 material facts.

15           543. Illinois Plaintiffs suffered actual pecuniary losses proximately caused by Gilead's  
16 violations of the Illinois Acts.

17           544. Illinois Plaintiffs seeks actual damages, punitive damages, reasonable attorneys' fees,  
18 and costs.

19                   **d. Indiana: Ind. Code § 24-5-0.5-1 et seq.**

20           545. Gilead has engaged in the following conduct in violation of Ind. Code § 24-5-0.5-1  
21 *et seq.*: 1) committing unfair or deceptive acts, omissions, or practices in connection with a consumer  
22 transaction in violation of Ind. Code § 24-5-0.5-3(a); 2) deceptively representing, through partial  
23 representations and omissions, that the TDF Drugs have performance, characteristics, or benefits they  
24 do not have which the supplier knows or reasonably knows it does not have in violation of Ind. Code  
25 § 24-5-0.5-3(b)(1); and 3) deceptively representing, through partial representations and omissions, that  
26 the TDF Drugs are of a particular standard or quality that it is not and if the supplier knows or should  
27 reasonably know that they are not in violation of Ind. Code § 24-5-0.5-3(b)(2).

1           546. Plaintiffs suffered damages, including lost money or property, as a proximate result of  
2 Gilead's violations of Ind. Code § 24-5-0.5-1 *et seq.*

3           547. Indiana Plaintiffs intend to seek actual damages, punitive damages for Gilead's willful  
4 deceptive acts, and reasonable attorneys' fees. On June 3, 2020, Indiana Plaintiffs made a written  
5 demand for relief in satisfaction of the Act and will amend this Complaint to add damage claims under  
6 the Act once the required notice period has elapsed. The notice letter is attached as Exhibit A. This  
7 paragraph is included for notice purposes only and is not intended to assert a claim under the Act for  
8 damages at this time.

9                   **e. New Jersey: N.J. Stat. Ann. §§ 56:8-1 *et seq.***

10           548. Gilead's conduct constitutes an unconscionable commercial practice, deception, fraud,  
11 false pretense, false promise, and the knowing, concealment, suppression, or omission of any material  
12 fact with intent that others rely upon such concealment, suppression or omission in connection with  
13 the sale or advertisement of merchandise in violation of N.J. Stat. Ann. § 56:8-2.

14           549. The TDF Drugs are merchandise within the meaning of N.J. Stat. Ann. § 56:8-2 because  
15 they are objects, goods, or anything offered, directly or indirectly, to the public for sale.

16           550. New Jersey Plaintiffs suffered an ascertainable loss of moneys or property as a result  
17 of Gilead's violations of N.J. Stat. Ann. § 56:8-2.

18           551. New Jersey Plaintiffs seek damages, treble damages, and reasonable attorneys' fees and  
19 costs of suit.

20                   **f. New York: N.Y. Gen. Bus. Law § 349**

21           552. Gilead's conduct constitutes deceptive acts or practices in the conduct of any business,  
22 trade or commerce in violation of N.Y. Gen. Bus. Law § 349.

23           553. Gilead's conduct was directed at consumers.

24           554. Gilead's conduct significantly impacted the public as actual or potential consumers of  
25 Gilead's TDF Drugs. Millions of consumers have ingested one or more of the TDF Drugs and Gilead  
26 has directed its misleading marketing and promotional messages to the market generally. Consumers  
27 like Plaintiffs are at an informational disadvantage and lack bargaining power relative to Gilead.

1 Gilead's conduct has previously impacted other consumers and has significant potential to do so in the  
2 future.

3 555. New York Plaintiffs were injured by reason of Gilead's violations of N.Y. Gen. Bus.  
4 Law § 349.

5 556. New York Plaintiffs seek actual damages, three times actual damages in an amount not  
6 to exceed \$1,000 in light of Gilead's willful or knowing violations, and reasonable attorneys' fees.

7 **g. Ohio: Ohio Rev. Code §§ 1345.01 et seq.**

8 557. Gilead's conduct constitutes unfair or deceptive acts or practices in connection with a  
9 consumer transaction in violation of Ohio Rev. Code § 1345.02.

10 558. Gilead deceptively represented, through partial representations and omissions, that the  
11 TDF Drugs have characteristics or benefits that they do not have in violation of Ohio Rev. Code  
12 § 1345.02(B)(1).

13 559. Gilead deceptively represented, though partial representations and omissions, that the  
14 TDF Drugs are of a particular standard or quality that they are not in violation of Ohio Rev. Code  
15 § 1345.02(B)(2).

16 560. Ohio Plaintiffs suffered damages as a result of Gilead's violations of Ohio Rev. Code  
17 § 1345.02.

18 561. Ohio Plaintiffs seek their actual damages plus an amount not exceeding \$5,000 in  
19 noneconomic damages, and reasonable attorneys' fees in light of Gilead's knowing violations.

20 **h. Oklahoma: 15 Okla. Stat. §§ 751 et seq.**

21 562. Gilead deceptively represented, through partial representations and omissions,  
22 knowingly or with reason to know, the characteristics and benefits of the TDF Drugs in violation of  
23 15 Okla. Stat. § 753(5).

24 563. Gilead deceptively represented, through partial representations and omissions,  
25 knowingly or with reason to know, that the TDF Drugs were of a particular standard when they of  
26 another in violation of 15 Okla. Stat. § 753(7).

27 564. Gilead's conduct constitutes unfair and deceptive practices in violation of 15 Okla. Stat.  
28 §§ 752, 753(20). Gilead committed omissions, or other practices that deceived or could reasonably be

1 expected to deceive or mislead a person to their detriment. Gilead’s conduct offends the established  
2 public policy of encouraging the marketing of safer drugs and adequately warning consumers about  
3 the risks of existing drugs. Gilead’s conduct was immoral, unethical, oppressive, unscrupulous, and  
4 substantially injurious to consumers.

5 565. Oklahoma Plaintiffs suffered actual injury and damages as a result of Gilead’s  
6 violations of 15 Okla. Stat. § 751 *et seq.*

7 566. Oklahoma Plaintiffs seek actual damages, costs of suit, reasonable attorneys’ fees, and  
8 civil penalties are permitted under 15 Okla. Stat. § 761.1.

9 **i. Oregon: Or. Rev. Stat. Ann. §§ 646.605 *et seq.***

10 567. Gilead deceptively represented, though partial representations and omissions, that the  
11 TDF Drugs have characteristics or benefits that they do not have in violation of Or. Rev. Stat. Ann.  
12 § 646.608(1)(e).

13 568. Gilead deceptively represented, through partial representations and omissions, that the  
14 TDF Drugs are of a particular standard or quality when they are of another in violation of Or. Rev.  
15 Stat. Ann. § 646.608(1)(g).

16 569. Gilead engaged in unfair or deceptive conduct in violation of Or. Rev. Stat. Ann.  
17 § 646.608(1)(u).

18 570. Oregon Plaintiffs suffered injuries and damages in the form of an ascertainable loss of  
19 money or property as a result of Gilead’s violations of Or. Rev. Stat. Ann. § 646.608.

20 571. Oregon Plaintiffs seek the greater of actual damages or \$200, punitive damages,  
21 reasonable attorneys’ fees, and costs.

22 **j. Texas: Tex. Bus. & Com. Code Ann. §§ 17.41 *et seq.***

23 572. Gilead’s conduct constitutes false, misleading, or deceptive acts or practices in the  
24 conduct of trade or commerce in violation of Tex. Bus. & Com. Code Ann. § 17.46(a).

25 573. Gilead deceptively represented, through partial representations and omissions, the TDF  
26 Drugs as having characteristics or benefits that they do not in violation of Tex. Bus. & Com. Code  
27 Ann. § 17.46(b)(5).



- 1 B. Award Plaintiffs actual, compensatory, and/or statutory damages in an amount to be  
2 proven at trial;
- 3 C. Award Plaintiffs punitive and exemplary damages as permitted by law and the statutes  
4 cited herein in an amount to be proven at trial;
- 5 D. Award Plaintiffs restitution and restitutionary disgorgement to restore ill-gotten gains  
6 received by Gilead as a result of the unfair, wrongful, and deceptive conduct alleged  
7 herein;
- 8 E. Award Plaintiffs the costs of bringing this suit, including reasonable attorneys' fees;  
9 and
- 10 F. Award Plaintiffs such other and further relief as to which Plaintiffs may be entitled in  
11 law or equity.

12 **JURY DEMAND**

13 Pursuant to Federal Rule of Civil Procedure 38(c), Plaintiffs demand a trial by jury on all  
14 matters so triable.

15 DATED: June 5, 2020

Respectfully submitted,

16 HAGENS BERMAN SOBOL SHAPIRO LLP

17 By: /s/ Shana E. Scarlett

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