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15 UNITED STATES DISTRICT COURT  
16 NORTHERN DISTRICT OF CALIFORNIA

17 AARON DAVILLIER, AARON SMITH, ADRIAN  
18 MICHAEL, ANNETTE BARRETO, ANTHONY  
19 O'BANNON, ANTOINE BRYANT, ARTHUR  
20 CRAIG, BERNARD KEVIN MILLER, BEVIS  
BELL, BRENDA LUE MCCRARY, CARLOS  
ANTONIO CLARK, CHRISTOPHER P.  
21 HARRISON, DARRELL WILLIAMS, DARRYL  
D. MATHIS, DAVID BELL, INDIVIDUALLY  
AND ON BEHALF OF THE ESTATE OF ERIC  
22 HOLLINS, DECEASED; DEDRA L.  
MARSHALL, DENNIS LEE MAROLD II, DINO  
23 LARSON, DONNA M. CHIASSON, DWAYNE  
SPENCER, EDWARD FRANK HELD IV, EZRA  
24 B. HARRIS, GARY JAMES HEBERT, GLINDA  
R. WEBB, GREGORY KELLEY, HARVEY RAY  
25 HOLLOWAY, HOWARD LYNN CRANFORD  
JR., JAMES HARGROVE, JAMISON ARNETT  
26 TROTTER, JASON CLOUDEN, JESSICA N.  
DAVIS, INDIVIDUALLY AND ON BEHALF OF  
27 THE ESTATE OF TONY H. HOWARD JR.,  
DECEASED; JOHN DOE NO. 7, JOHN DOE NO.  
28 8., JOSEPH ALLEN HAYS, KALIA JOYCE LEE.

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

**COMPLAINT FOR DAMAGES**

JURY TRIAL DEMANDED

1 KAREN DENISE DUNN, KAY ANN ROSS,  
2 KENNETH LAMARR SMITH, KYLE  
3 NICHOLAS VEST, INDIVIDUALLY AND ON  
4 BEHALF OF THE ESTATE OF HELENA LEAH  
5 VEST, DECEASED; LAQUANTA YVONNE  
6 DYSON, LARRY DANIELS, LASHIKA HOUSE,  
7 LEONARD EASLEY, LESTER L. STEELE, LISA  
8 M. WILBORN, LISA R. PETERS, LLOYD  
9 MILLER, LONZIE HALL, MARALYN GILL,  
10 MARK A. CHAMBERS, MARVIN L. TAYLOR,  
11 MELVILLE N. JONES JR., MICHAEL  
12 BARKSDALE, MICHAEL HENRY BUSH,  
13 MICHAEL SPENCE, MICHAEL V.  
14 WHITEHEAD, MONTRAVIL L. ANDERSON,  
15 NATHANIEL DORION JR., NEVRON JAMES,  
16 PAMELA L. JENKINS, RANDY JACKSON,  
17 RAYMOND EARL HILL, RENE LOPEZ,  
18 RICHARD MICHAEL GOMEZ, RICKY LEE  
19 CREWS, ROBBY EVAN PÉROT, ROBERT LEE  
20 WHITE, ROCKY BRIAN BASS, RODNEY  
21 CONWELL, ROSE GIANOTTI, INDIVIDUALLY  
22 AND ON BEHALF OF THE ESTATE OF DAISY  
23 OJEDA, DECEASED; SAMUEL CORDOBA,  
24 SANDI PERRY, SHARON AMOS-LUCKETT,  
25 SHAUNESSEY WASHINGTON, SHERITA Y.  
26 HOUSTON, INDIVIDUALLY AND ON BEHALF  
27 OF THE ESTATE OF DIEZ AMI EDWARDS,  
28 DECEASED; STEAVEN MICHAEL DUFFY,  
STEVEN D. EDWARDS, TERESA ALSTON  
WILSON, THEOND BROWN, THOMAS E  
JONES, TIMOTHY HAYES, TOM WOODLAND,  
WANDA G. MCCRAY, WILLIAM D.  
GREENAWALT, INDIVIDUALLY AND ON  
BEHALF OF THE ESTATE OF STEVEN  
GREENAWALT, DECEASED; WILLIAM  
HAYES, WILLIAM MIMS, AND YULANDA P.  
SMITH,

Plaintiffs,

v.

GILEAD SCIENCES, INC.,

Defendant.

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1 Plaintiffs bring this civil action for damages against Defendant Gilead Sciences, Inc.  
2 (“Gilead” or “Defendant”). Based on the investigation of counsel, Plaintiffs allege on information  
3 and belief as 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 20. Venue is proper in this District under 28 U.S.C. § 1391(1)–(2). Defendant resides in  
6 this District and a substantial part of the events and omissions giving rise to Plaintiffs’ claims occurred  
7 in this District.

8 **III. INTRADISTRICT ASSIGNMENT**

9 21. 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 22. Plaintiffs are consumers who ingested one or more of the following TDF Drugs: Viread,  
15 Truvada, Atripla, Complera, or Stribild.

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

17 24. Plaintiff Aaron Davillier is and was at all relevant times a citizen of the State of  
18 Louisiana and domiciled in New Orleans, Louisiana. Plaintiff Aaron Davillier purchased and  
19 ingested the following TDF Drugs for an FDA-approved use of the drugs: Viread and Truvada  
20 beginning in 2001. As a result of Gilead’s wrongful conduct with respect to the defective TDF  
21 Drugs, Plaintiff ingested and was injured by the foregoing TDF Drugs. Plaintiff’s ingestion of the  
22 TDF Drugs caused Plaintiff to suffer bone demineralization, which resulted in a diagnosis of  
23 osteopenia and osteoporosis. Plaintiff required and incurred and will continue to require and incur  
24 expenses in connection with medical treatment as a result of these injuries. Plaintiff has endured and  
25 will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of  
26  
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28

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

3           25. Plaintiff Aaron Smith is and was at all relevant times a citizen of the State of  
4 Louisiana and domiciled in Baton Rouge, Louisiana. Plaintiff Aaron Smith purchased and ingested  
5 the following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2011. As a  
6 result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and  
7 was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or  
8 contributed to Plaintiff suffering damage to his kidneys, which resulted in a diagnosis of kidney  
9 failure. Plaintiff Aaron Smith required and incurred and will continue to require and incur expenses  
10 in connection with medical treatment as a result of these injuries. Plaintiff has endured and will  
11 continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of his  
12 injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and damages  
13 to be proven at trial.

14  
15  
16           26. Plaintiff Adrian Michael is and was at all relevant times a citizen of the State of Texas  
17 and domiciled in Hawkins, Texas. Plaintiff Adrian Michael purchased and ingested the following  
18 TDF Drug for an FDA-approved use of the drug: Atripla beginning in 2005. As a result of Gilead's  
19 wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the  
20 foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff  
21 suffering kidney damage, bone demineralization, osteoporosis, and fractures to his feet, wrist, and  
22 ribs. Plaintiff required and incurred and will continue to require and incur expenses in connection  
23 with medical treatment as a result of these injuries, including surgery and physical therapy. Plaintiff  
24 has endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of  
25 life as a result of his injuries, has suffered lost earnings and/or a loss of earning capacity, and other  
26 injuries and damages to be proven at trial.  
27  
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1           27. Plaintiff Annette Barreto is and was at all relevant times a citizen of the State of  
2 Illinois and domiciled in Chicago, Illinois. Plaintiff Annette Barreto purchased and ingested the  
3 following TDF Drugs for an FDA-approved use of the drugs: Viread and Truvada beginning in 2001.  
4 As a result of Gilead’s wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested  
5 and was injured by the foregoing TDF Drugs. Plaintiff’s ingestion of the TDF Drugs caused and/or  
6 contributed to Plaintiff suffering severe kidney dysfunction and acute kidney failure requiring  
7 dialysis treatments three times per week. Plaintiff required and incurred and will continue to require  
8 and incur expenses in connection with medical treatment as a result of these injuries. Plaintiff has  
9 endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as  
10 a result of her injuries and has suffered other injuries and damages to be proven at trial.

11  
12           28. Plaintiff Anthony O’Bannon is and was at all relevant times a citizen of the  
13 Commonwealth of Kentucky and domiciled in Louisville, Kentucky. Plaintiff Anthony O’Bannon  
14 purchased and ingested the following TDF Drug for an FDA-approved use of the drug: Viread  
15 beginning in approximately 2007. As a result of Gilead’s wrongful conduct with respect to the  
16 defective TDF Drug, Plaintiff ingested and was injured by the foregoing TDF Drug. Plaintiff’s  
17 ingestion of the TDF Drug caused and/or contributed to Plaintiff suffering Stage 3 Chronic Kidney  
18 Disease. Plaintiff required and incurred and will continue to require and incur expenses in connection  
19 with medical treatment as a result of these injuries. Plaintiff has endured and will continue to endure  
20 pain, suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered  
21 lost earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.

22  
23  
24           29. Plaintiff Antoine Bryant is and was at all relevant times a citizen of the State of Texas  
25 and domiciled in Houston, Texas. Plaintiff Antoine Bryant purchased and ingested the following  
26 TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2006. As a result of Gilead’s  
27 wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the  
28

1 foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff  
2 suffering severe kidney dysfunction and kidney failure requiring dialysis treatments. Plaintiff  
3 required and incurred and will continue to require and incur expenses in connection with medical  
4 treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain,  
5 suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost  
6 earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.

8 30. Plaintiff Arthur Craig is and was at all relevant times a citizen of the State of Illinois  
9 and domiciled in Maywood, Illinois. Plaintiff Arthur Craig purchased and ingested the following  
10 TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2004. 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 severe kidney dysfunction requiring dialysis treatments. Plaintiff 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, and has suffered other injuries and damages to be proven  
17 at trial.

19 31. Plaintiff Bernard Kevin Miller is a citizen of and domiciled in the State of Michigan.  
20 Plaintiff Bernard Kevin Miller purchased and ingested the following TDF Drugs for an FDA-  
21 approved use of the drugs: Viread and Truvada beginning in 2001. As a result of Gilead's wrongful  
22 conduct with respect to the defective TDF Drugs, Plaintiff ingested and was injured by the foregoing  
23 TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused and/or contributed to Plaintiff suffering  
24 bone density loss and kidney damage, which resulted in the diagnoses of osteopenia with multiple  
25 fractures and Stage 2 Chronic Kidney Disease. Plaintiff's osteopenia caused or contributed to  
26 fractures to Plaintiff's legs, hands, fingers, and feet as well as a fractured neck and multiple ribs  
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1 which required intensive care hospitalization for over a week. Plaintiff required and incurred and will  
2 continue to require and incur expenses in connection with medical treatment as a result of these  
3 injuries, including physical therapy treatments. Plaintiff Bernard Kevin Miller has endured and will  
4 continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of his  
5 injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and damages  
6 to be proven at trial.  
7

8 32. Plaintiff Bevis Bell is and was at all relevant times a citizen of the State of Tennessee  
9 and domiciled in Memphis, Tennessee. Plaintiff Bevis Bell purchased and ingested the following  
10 TDF Drugs for an FDA-approved use of the drugs: Viread and Truvada beginning in 2001. 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 to Plaintiff suffering weakening of the bones, which resulted in a diagnosis of  
14 osteoporosis at the young age of twenty-nine. Plaintiff required and incurred and will continue to  
15 require and incur expenses in connection with medical treatment as a result of these injuries. Plaintiff  
16 Bevis Bell 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  
18 capacity, and other injuries and damages to be proven at trial.  
19

20 33. Plaintiff Brenda Lue McCrary is and was at all relevant times a citizen of the State of  
21 Tennessee and domiciled in Johnson City, Tennessee. Plaintiff Brenda Lue McCrary purchased and  
22 ingested the following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2009.  
23 As a result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested  
24 and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or  
25 contributed to Plaintiff suffering bone demineralization, which resulted in a diagnosis of  
26 osteoporosis. Plaintiff Brenda Lue McCrary required and incurred and will continue to require and  
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1 incur expenses in connection with medical treatment as a result of these injuries. Plaintiff has  
2 endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as  
3 a result of her injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries  
4 and damages to be proven at trial.

5  
6 34. Plaintiff Carlos Antonio Clark is and was at all relevant times a citizen of the State of  
7 New Jersey and domiciled in Camden, New Jersey. Plaintiff Carlos Antonio Clark purchased and  
8 ingested the following TDF Drugs for an FDA-approved use of the drugs: Truvada and Stribild  
9 beginning in 2006. As a result of Gilead's wrongful conduct with respect to the defective TDF  
10 Drugs, Plaintiff ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the  
11 TDF Drugs caused and/or contributed to Plaintiff suffering acute kidney failure. Plaintiff required  
12 and incurred and will continue to require and incur expenses in connection with medical treatment as  
13 a result of these injuries, including two weeks of hospitalization for intravenous kidney treatments.  
14 Plaintiff Carlos Antonio Clark has endured and will continue to endure pain, suffering, mental  
15 anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a  
16 loss of earning capacity, and other injuries and damages to be proven at trial.

17  
18 35. Plaintiff Christopher P. Harrison is and was at all relevant times a citizen of the State  
19 of Louisiana and domiciled in New Orleans, Louisiana. Plaintiff Christopher P. Harrison purchased  
20 and ingested the following TDF Drug for an FDA-approved use of the drug: Truvada beginning in  
21 2004. As a result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff  
22 ingested and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused  
23 and/or contributed to Plaintiff suffering damage to his kidneys, which resulted in a diagnosis of renal  
24 failure. Plaintiff Christopher P. Harrison required and incurred and will continue to require and incur  
25 expenses in connection with medical treatment as a result of these injuries. Plaintiff has endured and  
26 will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of  
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1 his injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and  
2 damages to be proven at trial.

3           36. Plaintiff Darrell Williams is and was at all relevant times a citizen of the State of  
4 Louisiana and domiciled in Terrytown, Louisiana. Plaintiff Darrell Williams purchased and ingested  
5 the following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2010. As a  
6 result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and  
7 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  
9 Osteoporosis. Plaintiff required and incurred and will continue to require and incur expenses in  
10 connection with medical treatment as a result of these injuries, including surgery and physical  
11 therapy. Plaintiff has endured and will continue to endure pain, suffering, mental anguish, and loss of  
12 enjoyment of life as a result of his injuries, and other injuries and damages to be proven at trial.  
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15           37. Plaintiff Darryl D. Mathis is and was at all relevant times a citizen of the  
16 Commonwealth of Pennsylvania and domiciled in Nanticoke, Pennsylvania. Plaintiff Darryl D.  
17 Mathis purchased and ingested the following TDF Drug for an FDA-approved use of the drug:  
18 Truvada beginning in 2015. As a result of Gilead's wrongful conduct with respect to the defective  
19 TDF Drug, Plaintiff ingested and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the  
20 TDF Drug caused Plaintiff to suffer severe Chronic Kidney Disease (CKD), which required dialysis  
21 treatments and treatment at a rehabilitation facility. Plaintiff's injuries have had a negative impact on  
22 his career as a Certified Nursing Assistant in that his injuries have caused Plaintiff to retire after  
23 three years of service. Plaintiff required and incurred and will continue to require and incur expenses  
24 in connection with medical treatment as a result of these injuries. Plaintiff has endured and will  
25 continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of his  
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1 injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and damages  
2 to be proven at trial.

3           38. Plaintiff David Bell, individually and as personal representative for the Estate of Eric  
4 Hollins, is and was at all relevant times a citizen of the State of Texas and domiciled in Arlington,  
5 Texas. Plaintiff David Bell was the father of Eric Hollins, deceased. Decedent, Eric Hollins,  
6 purchased and ingested the following TDF Drugs for an FDA-approved use of the drugs: Viread and  
7 Atripla. As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Decedent  
8 ingested and was injured by the foregoing TDF Drugs. Decedent's ingestion of the TDF Drugs  
9 caused and/or contributed to Decedent suffering End Stage Renal Disease, which ultimately resulted  
10 in his death in 2019 at the age of thirty-three. Decedent required and incurred expenses in connection  
11 with medical treatment as a result of these injuries, including hospitalization and dialysis. As a direct  
12 and proximate result of Defendant Gilead's wrongful conduct, Decedent Eric Hollins suffered severe  
13 bodily injuries, pain, suffering, mental anguish, loss of enjoyment of life and loss of earnings and/or  
14 earning capacity, up to the time of his death. Gilead's wrongful conduct was a direct and proximate  
15 cause of Decedent's death. As a direct and proximate result of Gilead's wrongful conduct, Plaintiff  
16 David Bell, individually and in his capacity as representative for the Estate of Eric Hollins, has  
17 suffered loss of affection, society, assistance, emotional support, care, comfort, solace,  
18 companionship, maintenance, support and services; and, the Estate has suffered past and future  
19 pecuniary including lost earning capacity, necessary expenses for medical treatment, funeral and  
20 burial expenses, and other damages to be proven at trial.

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24           39. Plaintiff Dedra L. Marshall is and was at all relevant times a citizen of the State of  
25 Louisiana and domiciled in Baton Rouge, Louisiana. Plaintiff Dedra L. Marshall purchased and  
26 ingested the following TDF Drug for an FDA-approved use of the drug: Atripla beginning in 2006.  
27 As a result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested  
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1 and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or  
2 contributed to Plaintiff suffering bone demineralization, which resulted in a diagnosis of  
3 osteoporosis. Plaintiff Dedra L. Marshall required and incurred and will continue to require and incur  
4 expenses in connection with medical treatment as a result of these injuries. Plaintiff has endured and  
5 will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of  
6 her injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and  
7 damages to be proven at trial.  
8

9 40. Plaintiff Dennis L. Marold II is and was at all relevant times a citizen of the State of  
10 Ohio and domiciled in Cleveland Heights, Ohio. Plaintiff Dennis L. Marold, II purchased and  
11 ingested the following TDF Drug for an FDA-approved use of the drug: Viread beginning in 2017.  
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 Plaintiff to  
14 suffer kidney failure and End Stage Renal Disease (ESRD), requiring dialysis treatments. Plaintiff  
15 required and incurred and will continue to require and incur expenses in connection with medical  
16 treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain,  
17 suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost  
18 earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.  
19

20 41. Plaintiff Dino Larson is and was at all relevant times a citizen of the State of Illinois  
21 and domiciled in Chicago, Illinois. Plaintiff Dino Larson purchased and ingested the following TDF  
22 Drugs for an FDA-approved use of the drugs: Viread, Truvada and Stribild beginning in 2001. As a  
23 result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested and  
24 was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused and/or  
25 contributed to Plaintiff suffering severe kidney dysfunction, which resulted in a diagnosis of acute  
26 renal failure requiring dialysis treatments and placement on a kidney transplant waiting list. Plaintiff  
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1 required and incurred and will continue to require and incur expenses in connection with medical  
2 treatment as a result of these injuries, including kidney transplantation surgery and kidney anti-  
3 rejection medications for the remainder of his life. Plaintiff Dino Larson has endured and will  
4 continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of his  
5 injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and damages  
6 to be proven at trial.  
7

8 42. Plaintiff Donna M. Chiasson is and was at all relevant times a citizen of the State of  
9 Louisiana and domiciled in Gretna, Louisiana. Plaintiff Donna M. Chiasson purchased and ingested  
10 the following TDF Drugs for an FDA-approved use of the drugs: Truvada and Atripla beginning in  
11 2017. As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff  
12 ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused  
13 and/or contributed to Plaintiff suffering damage to her kidneys, which resulted in a diagnosis of  
14 Stage 3 Chronic Kidney Disease. Plaintiff Donna M. Chiasson 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 her injuries, has suffered lost earnings and/or a loss of earning  
18 capacity, and other injuries and damages to be proven at trial.  
19

20 43. Plaintiff Dwayne Spencer is and was at all relevant times a citizen of the State of  
21 Illinois and domiciled in Maywood, Illinois. Plaintiff Dwayne Spencer purchased and ingested the  
22 following TDF Drugs for an FDA-approved use of the drugs: Truvada and Atripla beginning in  
23 2004. As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff  
24 ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused  
25 and/or contributed to Plaintiff suffering kidney damage and dysfunction, which resulted in a  
26 diagnosis of End Stage Renal Disease and has required dialysis treatments. Plaintiff required and  
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1 incurred and will continue to require and incur expenses in connection with medical treatment as a  
2 result of these injuries. Plaintiff Dwayne Spencer has endured and will continue to endure pain,  
3 suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost  
4 earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.

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6 44. Plaintiff Edward Frank Held IV is and was at all relevant times a citizen of the State  
7 of Louisiana and domiciled in Kenner, Louisiana. Plaintiff Edward Frank Held, IV purchased and  
8 ingested the following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2008.  
9 As a result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested  
10 and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or  
11 contributed to Plaintiff suffering bone density loss and weakening of the bones. Plaintiff required and  
12 incurred and will continue to require and incur expenses in connection with medical treatment as a  
13 result of these injuries. Plaintiff has endured and will continue to endure pain, suffering, mental  
14 anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a  
15 loss of earning capacity, and other injuries and damages to be proven at trial.

16  
17 45. Plaintiff Ezra B. Harris is and was at all relevant times a citizen of the State of  
18 Tennessee and domiciled in Chattanooga, Tennessee. Plaintiff Ezra B. Harris purchased and ingested  
19 the following TDF Drugs for an FDA-approved use of the drugs: Viread and Truvada beginning in  
20 2001. 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 damage to his kidneys, which resulted in a diagnosis of renal  
23 failure requiring dialysis treatments. Plaintiff's renal failure and related kidney damage have caused  
24 Plaintiff suffering and mental anguish. Plaintiff Ezra B. Harris required and incurred and will  
25 continue to require and incur expenses in connection with medical treatment as a result of these  
26 injuries, including surgery and dialysis. Plaintiff has endured and will continue to endure pain,  
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1 suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost  
2 earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.

3           46. Plaintiff Gary James Hebert is and was at all relevant times a citizen of the State of  
4 Louisiana and domiciled in Covington, Louisiana. Plaintiff Gary James Hebert purchased and  
5 ingested the following TDF Drug for an FDA-approved use of the drug: Atripla beginning in 2011.  
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 severe kidney damage and dysfunction, which resulted in a  
9 diagnosis of End Stage Renal Disease requiring dialysis treatments and kidney transplantation  
10 surgery followed by expensive anti-rejection medications. Plaintiff required and incurred and will  
11 continue to require and incur expenses in connection with medical treatment as a result of these  
12 injuries, including expensive anti-rejection medications for the remainder of his life. Plaintiff Gary  
13 James Hebert has endured and will continue to endure pain, suffering, mental anguish, and loss of  
14 enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss of earning  
15 capacity, and other injuries and damages to be proven at trial.

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

3 48. Plaintiff Gregory Kelley is and was at all relevant times a citizen of the  
4 Commonwealth of Kentucky and domiciled in Louisville, Kentucky. Plaintiff Gregory Kelley  
5 purchased and ingested the following TDF Drugs for an FDA-approved use of the drugs: Viread  
6 followed by Truvada. As a result of Gilead's wrongful conduct with respect to the defective TDF  
7 Drugs, Plaintiff ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the  
8 TDF Drugs caused Plaintiff to suffer severe kidney damage and dysfunction, which resulted in a  
9 diagnosis of Stage 3 Chronic Kidney Disease. Plaintiff required and incurred and will continue to  
10 require and incur expenses in connection with medical treatment as a result of these injuries for the  
11 remainder of his life. Plaintiff Gregory Kelley has endured and will continue to endure pain,  
12 suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost  
13 earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.  
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16 49. Plaintiff Harvey Ray Holloway is and was at all relevant times a citizen of the State of  
17 Tennessee and domiciled in Cookeville, Tennessee. Plaintiff Harvey R. Holloway purchased and  
18 ingested the following TDF Drug for an FDA-approved use of the drug: Complera beginning in  
19 2015. As a result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff  
20 ingested and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused  
21 and/or contributed to Plaintiff suffering bone demineralization and several fractures to his hands.  
22 Plaintiff required and incurred and will continue to require and incur expenses in connection with  
23 medical treatment as a result of these injuries, including surgery and physical therapy. Plaintiff has  
24 endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as  
25 a result of his injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries  
26 and damages to be proven at trial.  
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1           50. Plaintiff Howard Lynn Cranford Jr. is and was at all relevant times a citizen of the  
2 State of Texas and domiciled in Dallas, Texas. Plaintiff Howard L. Cranford, Jr. 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 Stage 3 Chronic Kidney Disease, weakening of the bones and a  
7 fracture to his arm. Plaintiff required and incurred and will continue to require and incur expenses in  
8 connection with medical treatment as a result of these injuries, including surgery and physical  
9 therapy. Plaintiff has endured and will continue to endure pain, suffering, mental anguish, and loss of  
10 enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss of earning  
11 capacity, and other injuries and damages to be proven at trial.  
12

13           51. Plaintiff James Hargrove is and was at all relevant times a citizen of the State of  
14 Louisiana and domiciled in Alexandria, Louisiana. Plaintiff James Hargrove purchased and ingested  
15 the following TDF Drugs for an FDA-approved use of the drugs: Viread, Truvada, Atripla, Complera  
16 and Stribild beginning in 2001. As a result of Gilead's wrongful conduct with respect to the defective  
17 TDF Drugs, Plaintiff ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of  
18 the TDF Drugs caused and/or contributed to Plaintiff suffering renal failure and requiring dialysis.  
19 Plaintiff James Hargrove required and incurred and will continue to require and incur expenses in  
20 connection with medical treatment as a result of these injuries, including surgery and dialysis.  
21 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  
23 capacity, and other injuries and damages to be proven at trial.  
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25           52. Plaintiff Jamison Arnett Trotter is and was at all relevant times a citizen of the State  
26 of Tennessee and domiciled in Madison, Tennessee. Plaintiff Jamison Arnett Trotter purchased and  
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1 ingested the following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2010.  
2 As a result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested  
3 and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or  
4 contributed to Plaintiff suffering damage to his kidneys, which resulted in a diagnosis of Stage 3  
5 Chronic Kidney Disease. Plaintiff Jamison Arnett Trotter required and incurred and will continue to  
6 require and incur expenses in connection with medical treatment as a result of these injuries. Plaintiff  
7 has endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of  
8 life as a result of his injuries, has suffered lost earnings and/or a loss of earning capacity, and other  
9 injuries and damages to be proven at trial.  
10

11           53. Plaintiff Jason Clouden is and was at all relevant times a citizen of the State of Ohio  
12 and domiciled in Cleveland, Ohio. Plaintiff Jason Clouden purchased and ingested the following  
13 TDF Drugs for an FDA-approved use of the drugs: Viread and Atripla beginning in 2001. As a result  
14 of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested and was  
15 injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused and/or  
16 contributed to Plaintiff suffering severe kidney damage and dysfunction, which resulted in renal  
17 failure requiring daily dialysis treatments and placement on a kidney transplant waiting list. Plaintiff  
18 required and incurred and will continue to require and incur expenses in connection with medical  
19 treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain,  
20 suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost  
21 earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.  
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24           54. Plaintiff Jessica N. Davis, individually and as personal representative for the Estate of  
25 Tony H. Howard Jr., is and was at all relevant times a citizen of the State of Florida and domiciled in  
26 Jacksonville, Florida. Plaintiff Jessica N. Davis is the daughter of Tony H. Howard Jr., deceased.  
27 Decedent, Tony H. Howard, Jr., purchased and ingested the following TDF Drug for an FDA-  
28



1 approved use of the drug: Viread beginning in 2009. As a result of Gilead's wrongful conduct with  
2 respect to the defective TDF Drug, Decedent ingested and was injured by the foregoing TDF Drug.  
3 Decedent's ingestion of the TDF Drug caused or contributed to Decedent suffering acute kidney  
4 failure, which ultimately resulted in his death. Decedent required and incurred expenses in  
5 connection with medical treatment as a result of these injuries, including hospitalization and dialysis.  
6 As a direct and proximate result of Defendant Gilead's wrongful conduct, Decedent suffered severe  
7 bodily injuries, pain, suffering, mental anguish, loss of enjoyment of life and loss of earnings and/or  
8 earning capacity, up to the time of his death. Gilead's wrongful conduct was a direct and proximate  
9 cause of Decedent's death. As a direct and proximate result of Gilead's wrongful conduct, Plaintiff  
10 Jessica N. Davis, individually and in her capacity as representative for the Estate of Tony H. Howard  
11 Jr., has suffered loss of affection, society, assistance, emotional support, care, comfort, solace,  
12 companionship, maintenance, support and services; and, the Estate has suffered past and future  
13 pecuniary including lost earning capacity, necessary expenses for medical treatment, funeral and  
14 burial expenses, and other damages to be proven at trial.  
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17 55. Plaintiff John Doe No. 8 is and was at all relevant times a citizen of the State of Texas  
18 and domiciled in Groves, Texas. Plaintiff John Doe No. 8 purchased and ingested the following TDF  
19 Drugs for an FDA-approved use of the drugs: Truvada, Atripla and Complera beginning in 2005. As  
20 a 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 Stage 3 Chronic Kidney Disease and osteoporosis. Plaintiff required  
23 and incurred and will continue to require and incur expenses in connection with medical treatment as  
24 a result of these injuries. Plaintiff has endured and will continue to endure pain, suffering, mental  
25 anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a  
26 loss of earning capacity, and other injuries and damages to be proven at trial.  
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1           56. Plaintiff John Doe No. 7 is and was at all relevant times a citizen of the State of  
2 Tennessee and domiciled in Memphis, Tennessee. Plaintiff purchased and ingested the following  
3 TDF Drug for an FDA-approved use of the drug: Complera beginning in 2009. As a result of  
4 Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was  
5 injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed  
6 to Plaintiff suffering damage to his kidneys, which resulted in a diagnosis of kidney disease. Plaintiff  
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,  
9 suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost  
10 earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.  
11

12           57. Plaintiff Joseph Allen Hays is and was at all relevant times a citizen of the  
13 Commonwealth of Kentucky and domiciled in Brandenburg, Kentucky. Plaintiff Joseph Allen Hays  
14 purchased and ingested the following TDF Drugs for an FDA-approved use of the drugs: Viread,  
15 Atripla, and Complera. As a result of Gilead's wrongful conduct with respect to the defective TDF  
16 Drugs, Plaintiff ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the  
17 TDF Drugs caused Plaintiff to suffer severe bone demineralization, which resulted in a diagnosis of  
18 osteoporosis and which caused or contributed to Plaintiff's fractured clavicle. Plaintiff's ingestion of  
19 the TDF Drugs also caused Plaintiff to suffer damage to his kidneys, which resulted in a diagnosis of  
20 Stage 3 Chronic Kidney Disease. Plaintiff required and incurred and will continue to require and  
21 incur expenses in connection with medical treatment as a result of these injuries, including  
22 hospitalization. Plaintiff Joseph Allen Hays has endured and will continue to endure pain, suffering,  
23 mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings  
24 and/or a loss of earning capacity, and other injuries and damages to be proven at trial.  
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1           58. Plaintiff Kalia Joyce Lee is and was at all relevant times a citizen of the State of  
2 Louisiana and domiciled in Metairie, Louisiana. Plaintiff Kalia Joyce Lee purchased and ingested the  
3 following TDF Drugs for an FDA-approved use of the drugs: Viread, Truvada, and Atripla beginning  
4 in 2001. As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff  
5 ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused  
6 and/or contributed to Plaintiff suffering severe kidney damage and dysfunction, which resulted in a  
7 diagnosis of End Stage Renal Disease and kidney failure requiring dialysis treatments. Plaintiff  
8 required and incurred and will continue to require and incur expenses in connection with medical  
9 treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain,  
10 suffering, mental anguish, and loss of enjoyment of life as a result of her injuries, has suffered lost  
11 earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.  
12

13           59. Plaintiff Karen Denise Dunn is and was at all relevant times a citizen of the State of  
14 Alabama and domiciled in Prichard, Alabama. Plaintiff Karen Denise Dunn purchased and ingested  
15 the following TDF Drug for an FDA-approved use of the drug: Viread beginning in 2003. As a result  
16 of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was  
17 injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed  
18 to Plaintiff suffering severe kidney dysfunction and damage, which resulted in a diagnosis of End  
19 Stage Renal Disease requiring dialysis treatments. Plaintiff required and incurred and will continue  
20 to require and incur expenses in connection with medical treatment as a result of these injuries.  
21 Plaintiff Karen Denise Dunn has endured and will continue to endure pain, suffering, mental  
22 anguish, and loss of enjoyment of life as a result of her injuries, has suffered lost earnings and/or a  
23 loss of earning capacity, and other injuries and damages to be proven at trial.  
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26           60. Plaintiff Kay Ann Ross is and was at all relevant times a citizen of the State of  
27 Louisiana and domiciled in Vacherie, Louisiana. Plaintiff Kay Ann Ross purchased and ingested the  
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1 following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2013. As a result  
2 of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was  
3 injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed  
4 to Plaintiff suffering Stage 4 Chronic Kidney Disease. Plaintiff required and incurred and will  
5 continue to require and incur expenses in connection with medical treatment as a result of these  
6 injuries, including hospitalization. Plaintiff Kay Ann Ross has endured and will continue to endure  
7 pain, suffering, mental anguish, and loss of enjoyment of life as a result of her injuries, has suffered  
8 lost earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.

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10 61. Plaintiff Kenneth Lamarr Smith is and was at all relevant times a citizen of the  
11 Commonwealth of Kentucky and domiciled in Lexington, Kentucky. Plaintiff Kenneth Lamarr Smith  
12 purchased and ingested the following TDF Drugs for an FDA-approved use of the drugs: Viread,  
13 Truvada, and Atripla beginning in 2009. As a result of Gilead's wrongful conduct with respect to the  
14 defective TDF Drugs, Plaintiff ingested and was injured by the foregoing TDF Drugs. Plaintiff's  
15 ingestion of the TDF Drugs caused Plaintiff to suffer bone demineralization, which resulted in a  
16 diagnosis of osteoporosis at the young age of thirty-one. Plaintiff required and incurred and will  
17 continue to require and incur expenses in connection with medical treatment as a result of these  
18 injuries, including surgery and physical therapy. Plaintiff Kenneth Lamarr Smith has endured and  
19 will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of  
20 his injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and  
21 damages to be proven at trial.

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24 62. Plaintiff Kyle Nicholas Vest, individually and as personal representative for the Estate  
25 of Helena Leah Vest, is and was at all relevant times a citizen of the State of Texas and domiciled in  
26 Corpus Christi, Texas. Plaintiff Kyle Nicholas Vest is the son of Helena Leah Vest, deceased.  
27 Decedent Helena Leah Vest purchased and ingested the following TDF Drug for an FDA-approved  
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1 use of the drug: Truvada. As a result of Gilead's wrongful conduct with respect to the defective TDF  
2 Drug, Decedent ingested and was injured by the foregoing TDF Drug. Decedent's ingestion of the  
3 TDF Drug caused or contributed to Decedent suffering acute renal failure, which ultimately resulted  
4 in her death. Decedent required and incurred expenses in connection with medical treatment as a  
5 result of these injuries, including hospitalization. As a direct and proximate result of Defendant  
6 Gilead's wrongful conduct, Decedent Helena Leah Vest suffered severe bodily injuries, pain,  
7 suffering, mental anguish, loss of enjoyment of life and loss of earnings and/or earning capacity, up  
8 to the time of her death. Gilead's wrongful conduct was a direct and proximate cause of Decedent's  
9 death. As a direct and proximate result of Gilead's wrongful conduct, Plaintiff Kyle Nicholas Vest,  
10 individually and in his capacity as representative for the Estate of Helena Leah Vest, has suffered  
11 loss of affection, society, assistance, emotional support, care, comfort, solace, companionship,  
12 maintenance, support and services; and, the Estate has suffered past and future pecuniary including  
13 lost earning capacity, necessary expenses for medical treatment, funeral and burial expenses, and  
14 other damages to be proven at trial.  
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17         63. Plaintiff Laquanta Yvonne Dyson is and was at all relevant times a citizen of the State  
18 of Louisiana and domiciled in River Ridge, Louisiana. Plaintiff Laquanta Yvonne Dyson purchased  
19 and ingested the following TDF Drug for an FDA-approved use of the drug: Truvada beginning in  
20 2009. As a result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff  
21 ingested and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused  
22 and/or contributed to Plaintiff suffering severe kidney damage and dysfunction, which resulted in a  
23 diagnosis of Stage 4 Chronic Kidney Disease and acute kidney failure requiring dialysis treatments at  
24 the young age of twenty-seven. Plaintiff required and incurred and will continue to require and incur  
25 expenses in connection with medical treatment as a result of these injuries for the remainder of her  
26 life. Plaintiff Laquanta Yvonne Dyson has endured and will continue to endure pain, suffering,  
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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           64. Plaintiff Larry Daniels is and was at all relevant times a citizen of the State of  
4 Mississippi and domiciled in Biloxi, Mississippi. Plaintiff Larry Daniels purchased and ingested the  
5 following TDF Drug for an FDA-approved use of the drug: Atripla beginning in 2010. As a result of  
6 Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was  
7 injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed  
8 to Plaintiff suffering kidney damage and dysfunction, which resulted in a diagnosis of acute kidney  
9 failure and high creatinine levels. Plaintiff required and incurred and will continue to require and  
10 incur expenses in connection with medical treatment as a result of these injuries, including possible  
11 kidney dialysis treatments and hospitalization. Plaintiff Larry Daniels has endured and will continue  
12 to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has  
13 suffered lost earnings and/or a loss of earning capacity, and other injuries and damages to be proven  
14 at trial.

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17           65. Plaintiff Lashika House is and was at all relevant times a citizen of the State of  
18 Tennessee and domiciled in Memphis, Tennessee. Plaintiff Lashika House purchased and ingested  
19 the following TDF Drugs for an FDA-approved use of the drugs: Atripla 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 renal failure. Plaintiff's injuries have had a negative impact  
23 on her career as a warehouse worker in that her injuries have caused Plaintiff to retire. Plaintiff required and  
24 incurred and will continue to require and incur expenses in connection with medical treatment as a  
25 result of these injuries. Plaintiff has endured and will continue to endure pain, suffering, mental  
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1 anguish, and loss of enjoyment of life as a result of her injuries, and other injuries and damages to be  
2 proven at trial.

3           66. Plaintiff Leonard Easley is and was at all relevant times a citizen of the State of  
4 Tennessee and domiciled in Memphis, Tennessee. Plaintiff Leonard Easley purchased and ingested  
5 the following TDF Drugs for an FDA-approved use of the drugs: Truvada and Stribild beginning in  
6 2008. As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff  
7 ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused  
8 and/or contributed to Plaintiff suffering kidney damage and dysfunction, which resulted in a  
9 diagnosis of Stage 3 Chronic Kidney Disease. Plaintiff required and incurred and will continue to  
10 require and incur expenses in connection with medical treatment as a result of these injuries. Plaintiff  
11 Leonard Easley has endured and will continue to endure pain, suffering, mental anguish, and loss of  
12 enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss of earning  
13 capacity, and other injuries and damages to be proven at trial.  
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16           67. Plaintiff Lester L. Steele is and was at all relevant times a citizen of the State of  
17 Louisiana and domiciled in Harvey, Louisiana. Plaintiff Lester L. Steele purchased and ingested the  
18 following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2015. As a result  
19 of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was  
20 injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed  
21 to Plaintiff suffering damage to his kidneys, which resulted in a diagnosis of renal failure. Plaintiff's  
22 injuries have had a negative impact on his career as an entertainer in that his injuries interfere with  
23 his ability to perform. Plaintiff Lester L. Steele required and incurred and will continue to require  
24 and incur expenses in connection with medical treatment as a result of these injuries. Plaintiff has  
25 endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as  
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1 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 68. Plaintiff Lisa M. Wilborn is and was at all relevant times a citizen of the State of  
4 Tennessee and domiciled in Memphis, Tennessee. Plaintiff Lisa M. Wilborn purchased and ingested  
5 the following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2014. As a  
6 result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and  
7 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  
9 osteoporosis. Plaintiff Lisa M. Wilborn 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  
12 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 69. Plaintiff Lisa R. Peters is and was at all relevant times a citizen of the State of  
15 Tennessee and domiciled in Memphis, Tennessee. Plaintiff Lisa R. Peters purchased and ingested the  
16 following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2004. 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 bone demineralization, which resulted in a diagnosis of osteoporosis. Plaintiff  
20 Lisa R. Peters required and incurred and will continue to require and incur expenses in connection  
21 with medical treatment as a result of these injuries. Plaintiff has endured and will continue to endure  
22 pain, suffering, mental anguish, and loss of enjoyment of life as a result of her injuries, has suffered  
23 lost earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.



1           70. Plaintiff Lloyd Miller is and was at all relevant times a citizen of the Commonwealth  
2 of Pennsylvania and domiciled in Munhall, Pennsylvania. Plaintiff Lloyd Miller purchased and  
3 ingested the following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2007.  
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 density loss and kidney dysfunction, which resulted in  
7 diagnoses of osteopenia and stage 4 Chronic Kidney Disease. Plaintiff required and incurred and will  
8 continue to require and incur expenses in connection with medical treatment as a result of these  
9 injuries. Plaintiff Lloyd Miller has endured and will continue to endure pain, suffering, mental  
10 anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a  
11 loss of earning capacity, and other injuries and damages to be proven at trial.  
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13           71. Plaintiff Lonzie Hall is and was at all relevant times a citizen of the State of Texas  
14 and domiciled in Galveston, Texas. Plaintiff Lonzie Hall purchased and ingested the following TDF  
15 Drugs for an FDA-approved use of the drugs: Truvada and Stribild beginning in 2004. As a result of  
16 Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested and was  
17 injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused and/or  
18 contributed to Plaintiff suffering kidney damage and dysfunction, which resulted in a diagnosis of  
19 End Stage Renal Disease, and placement on a waiting list for kidney transplant surgery. Plaintiff  
20 required and incurred and will continue to require and incur expenses in connection with medical  
21 treatment as a result of these injuries, including dialysis treatments and future transplant surgery  
22 followed by anti-rejection medication for the remainder of his life. Plaintiff has endured and will  
23 continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of his  
24 injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and damages  
25 to be proven at trial.  
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1           72. Plaintiff Maralyn Gill is and was at all relevant times a citizen of the State of Oregon  
2 and domiciled in Eugene, Oregon. Plaintiff Maralyn Gill purchased and ingested the following TDF  
3 Drug for an FDA-approved use of the drug: Atripla beginning in 2008. 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 damage to her kidneys, which resulted in the a diagnosis of Stage 3 Chronic Kidney  
7 Disease. Plaintiff required and incurred and will continue to require and incur expenses in connection  
8 with medical treatment as a result of these injuries. Plaintiff has endured and will continue to endure  
9 pain, suffering, mental anguish, and loss of enjoyment of life as a result of her injuries, has suffered  
10 lost earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.  
11

12           73. Plaintiff Mark A. Chambers is and was at all relevant times a citizen of the State of  
13 New Jersey and domiciled in Somerset, New Jersey. Plaintiff Mark A. Chambers purchased and  
14 ingested the following TDF Drug for an FDA-approved use of the drug: Viread beginning in 2001.  
15 As a result of Gilead’s wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested  
16 and was injured by the foregoing TDF Drug. Plaintiff’s ingestion of the TDF Drug caused and/or  
17 contributed to Plaintiff suffering End Stage Renal Disease. Plaintiff required and incurred and will  
18 continue to require and incur expenses in connection with medical treatment as a result of these  
19 injuries, including surgery and physical therapy. Plaintiff has endured and will continue to endure  
20 pain, suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered  
21 lost earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.  
22

23           74. Plaintiff Marvin L. Taylor is and was at all relevant times a citizen of the State of  
24 Louisiana and domiciled in Shreveport, Louisiana. Plaintiff Marvin L. Taylor purchased and ingested  
25 the following TDF Drug for an FDA-approved use of the drug: Viread beginning in 2004. As a result  
26 of Gilead’s wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was  
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1 injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed  
2 to Plaintiff suffering End Stage Renal Disease and bone demineralization. Plaintiff 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, and other injuries and damages to be  
6 proven at trial.  
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8 75. Plaintiff Melville N. Jones Jr. is and was at all relevant times a citizen of the  
9 Commonwealth of Pennsylvania and domiciled in Philadelphia, Pennsylvania. Plaintiff Melville N.  
10 Jones, Jr. purchased and ingested the following TDF Drugs for an FDA-approved use of the drugs:  
11 Truvada and Atripla. As a result of Gilead's wrongful conduct with respect to the defective TDF  
12 Drugs, Plaintiff ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the  
13 TDF Drugs caused and/or contributed to Plaintiff suffering severe kidney damage and dysfunction,  
14 which resulted in a diagnosis of Stage 4 Chronic Kidney Disease and subsequent End Stage Renal  
15 Disease. Plaintiff's career as a veteran police officer has been negatively impacted as he is on  
16 restricted duty because of the need for dialysis treatments. Plaintiff required and incurred and will  
17 continue to require and incur expenses in connection with medical treatment as a result of these  
18 injuries, including kidney transplantation surgery and kidney anti-rejection medications for the  
19 remainder of his life. Plaintiff Melville N. Jones, Jr., has endured and will continue to endure pain,  
20 suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost  
21 earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.  
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24 76. Plaintiff Michael Barksdale is and was at all relevant times a citizen of the State of  
25 Alabama and domiciled in Anniston, Alabama. Plaintiff Michael Barksdale purchased and ingested  
26 the following TDF Drugs for an FDA-approved use of the drugs: Viread and Truvada beginning in  
27 2001. As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff  
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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 severe damage to his kidneys, which resulted in a diagnosis  
3 of Stage 5 Chronic Kidney Disease/End Stage Renal Disease. Plaintiff required and incurred and will  
4 continue to require and incur expenses in connection with medical treatment as a result of these  
5 injuries, including kidney dialysis treatments. 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, and has suffered  
7 other injuries and damages to be proven at trial.  
8

9       77. Plaintiff Michael Henry Bush is and was at all relevant times a citizen of the State of  
10 Louisiana and domiciled in New Orleans, Louisiana. Plaintiff Michael Henry Bush purchased and  
11 ingested the following TDF Drug for an FDA-approved use of the drug: Atripla beginning in 2008.  
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 severe kidney damage and dysfunction, which resulted in a  
15 diagnosis of Stage 4 Chronic Kidney Disease. Plaintiff required and incurred and will continue to  
16 require and incur expenses in connection with medical treatment as a result of these injuries for the  
17 remainder of his life. Plaintiff has endured and will continue to endure pain, suffering, mental  
18 anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a  
19 loss of earning capacity, and other injuries and damages to be proven at trial.  
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22       78. Plaintiff Michael Spence is and was at all relevant times a citizen of the State of  
23 Washington and domiciled in Arlington, Washington. Plaintiff Michael Spence purchased and  
24 ingested the following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2004.  
25 As a result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested  
26 and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or  
27 contributed to Plaintiff suffering End Stage Renal Disease requiring dialysis treatments. Plaintiff  
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1 required and incurred and will continue to require and incur expenses in connection with medical  
2 treatment as a result of these injuries. Plaintiff has endured and will continue to endure pain,  
3 suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, and other injuries  
4 and damages to be proven at trial.

5  
6 79. Plaintiff Michael V. Whitehead is and was at all relevant times a citizen of the State  
7 of Louisiana and domiciled in Bossier City, Louisiana. Plaintiff Michael V. Whitehead purchased  
8 and ingested the following TDF Drugs for an FDA-approved use of the drugs: Truvada and Atripla  
9 beginning in 2004. As a result of Gilead's wrongful conduct with respect to the defective TDF  
10 Drugs, Plaintiff ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the  
11 TDF Drugs caused and/or contributed to Plaintiff suffering kidney failure. Plaintiff required and  
12 incurred and will continue to require and incur expenses in connection with medical treatment as a  
13 result of these injuries. Plaintiff Michael V. Whitehead has endured and will continue to endure pain,  
14 suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost  
15 earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.

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17 80. Plaintiff Montravil L. Anderson is and was at all relevant times a citizen of the State  
18 of Tennessee and domiciled in Nashville, Tennessee. Plaintiff Montravil L. Anderson purchased and  
19 ingested the following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2004.  
20 As a result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested  
21 and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or  
22 contributed to Plaintiff suffering severe kidney damage and dysfunction, which resulted in a  
23 diagnosis of Stage 5 Chronic Kidney Disease and acute kidney failure requiring dialysis treatments.  
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 for the remainder of his life. Plaintiff Montravil L.  
26 Anderson has endured and will continue to endure pain, suffering, mental anguish, and loss of  
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1 enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss of earning  
2 capacity, and other injuries and damages to be proven at trial.

3           81. Plaintiff Nathaniel Dorion Jr. is and was at all relevant times a citizen of the State of  
4 Louisiana and domiciled in Lafayette, Louisiana. Plaintiff Nathaniel Dorion, Jr. purchased and  
5 ingested the following TDF Drugs for an FDA-approved use of the drugs: Viread, Truvada and  
6 Atripla. As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff  
7 ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused  
8 and/or contributed to Plaintiff suffering End Stage Renal Disease, requiring dialysis treatments.  
9 Plaintiff's injuries have had a negative impact on his career in nursing in that his injuries have caused  
10 and/or contributed to Plaintiff having to retire. 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  
13 life as a result of his injuries, has suffered lost earnings and/or a loss of earning capacity, and other  
14 injuries and damages to be proven at trial.

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17           82. Plaintiff Nevron James is and was at all relevant times a citizen of the State of  
18 Mississippi and domiciled in Jackson, Mississippi. Plaintiff Nevron James purchased and ingested  
19 the following TDF Drugs for an FDA-approved use of the drugs: Truvada and Viread beginning in  
20 2004. 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 damage to his kidneys, which resulted in diagnoses of kidney  
23 disease and kidney failure and has required dialysis treatments. Plaintiff's injuries have had a  
24 negative impact on his career as a construction worker in that his injuries will not allow him to  
25 continue working. Plaintiff required and incurred and will continue to require and incur expenses in  
26 connection with medical treatment as a result of these injuries. Plaintiff has endured and will  
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1 continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of his  
2 injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and damages  
3 to be proven at trial.

4 83. Plaintiff Pamela L. Jenkins is and was at all relevant times a citizen of the State of  
5 Tennessee and domiciled in Nashville, Tennessee. Plaintiff Pamela L. Jenkins purchased and  
6 ingested the following TDF Drugs for an FDA-approved use of the drugs: Truvada and Complera  
7 beginning in 2011. As a result of Gilead's wrongful conduct with respect to the defective TDF  
8 Drugs, Plaintiff ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the  
9 TDF Drugs caused Plaintiff to suffer severe bone demineralization, which resulted in a diagnosis of  
10 osteoporosis. Plaintiff's osteoporosis has caused Plaintiff extreme pain and suffering in legs,  
11 shoulders and back. Plaintiff Pamela L. Jenkins must often use a cane or walker for mobility due to  
12 the injuries caused by Gilead's defective TDF Drugs, and has extreme difficulty sitting, standing,  
13 walking and climbing stairs. Plaintiff's ingestion of the TDF Drugs caused Plaintiff to suffer damage  
14 to her kidneys, which resulted in diagnoses of Chronic Kidney Disease and acute renal failure.  
15 Plaintiff required and incurred and will continue to require and incur expenses in connection with  
16 medical treatment as a result of these injuries, including hospitalization. Plaintiff Pamela L. Jenkins  
17 has endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of  
18 life as a result of her injuries, has suffered lost earnings and/or a loss of earning capacity, and other  
19 injuries and damages to be proven at trial.  
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23 84. Plaintiff Randy Jackson is and was at all relevant times a citizen of the State of Texas  
24 and domiciled in Houston, Texas. Plaintiff Randy Jackson purchased and ingested the following  
25 TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2004. As a result of Gilead's  
26 wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the  
27 foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused Plaintiff to suffer severe kidney  
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1 damage and dysfunction, which resulted in kidney failure requiring dialysis. Plaintiff required and  
2 incurred and will continue to require and incur expenses in connection with medical treatment as a  
3 result of these injuries. Plaintiff has endured and will continue to endure pain, suffering, mental  
4 anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a  
5 loss of earning capacity, and other injuries and damages to be proven at trial.  
6

7 85. Plaintiff Raymond Earl Hill is and was at all relevant times a citizen of the State of  
8 Mississippi and domiciled in Jackson, Mississippi. Plaintiff Raymond E. Hill purchased and ingested  
9 the following TDF Drugs for an FDA-approved use of the drugs: Truvada, Atripla and Viread  
10 beginning in 2008. As a result of Gilead's wrongful conduct with respect to the defective TDF  
11 Drugs, Plaintiff ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the  
12 TDF Drugs caused and/or contributed to Plaintiff suffering Stage 4 Chronic Kidney Disease  
13 requiring dialysis. Plaintiff's injuries have had a negative impact on his career as a foundation  
14 repairman in that his injuries have caused and/or contributed to Plaintiff retiring. Plaintiff required  
15 and incurred and will continue to require and incur expenses in connection with medical treatment as  
16 a 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  
18 loss of earning capacity, and other injuries and damages to be proven at trial.  
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20 86. Plaintiff Rene Lopez is and was at all relevant times a citizen of the State of Texas  
21 and domiciled in Killeen, Texas. Plaintiff Rene Lopez purchased and ingested the following TDF  
22 Drug for an FDA-approved use of the drug: Truvada. As a result of Gilead's wrongful conduct with  
23 respect to the defective TDF Drug, Plaintiff ingested and was injured by the foregoing TDF Drug.  
24 Plaintiff's ingestion of the TDF Drug caused Plaintiff to suffer bone demineralization, which resulted  
25 in a diagnosis of osteoporosis at the young age of thirty-four. Plaintiff required and incurred and will  
26 continue to require and incur expenses in connection with medical treatment as a result of these  
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1 injuries, including surgery and physical therapy. Plaintiff Rene Lopez has endured and will continue  
2 to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has  
3 suffered lost earnings and/or a loss of earning capacity, and other injuries and damages to be proven  
4 at trial.

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6 87. Plaintiff Richard Michael Gomez is and was at all relevant times a citizen of the State  
7 of Louisiana and domiciled in Kenner, Louisiana. Plaintiff Richard Michael Gomez purchased and  
8 ingested the following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2012.  
9 As a result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested  
10 and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or  
11 contributed to Plaintiff suffering weakening of the bones, which resulted in a diagnosis of  
12 osteopenia. 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 Richard Michael Gomez has  
14 endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as  
15 a result of his injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries  
16 and damages to be proven at trial.

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18 88. Plaintiff Rickey Lee Crews is and was at all relevant times a citizen of the State of  
19 Louisiana and domiciled in Monroe, Louisiana. Plaintiff Rickey Lee Crews purchased and ingested  
20 the following TDF Drugs for an FDA-approved use of the drugs: Viread and Truvada beginning in  
21 2010. As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff  
22 ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused  
23 and/or contributed to Plaintiff suffering bone demineralization. Plaintiff Rickey Lee Crews required  
24 and incurred and will continue to require and incur expenses in connection with medical treatment as  
25 a result of these injuries. Plaintiff has endured and will continue to endure pain, suffering, mental  
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1 anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a  
2 loss of earning capacity, and other injuries and damages to be proven at trial.

3 89. Plaintiff Robby Evan Pérot is and was at all relevant times a citizen of the State of  
4 Louisiana and domiciled in Haughton, Louisiana. Plaintiff Robby Evan Pérot purchased and ingested  
5 the following TDF Drugs for an FDA-approved use of the drugs: Truvada and Atripla beginning in  
6 2006. As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff  
7 ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused  
8 and/or contributed to Plaintiff suffering bone density loss. Plaintiff 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 Robby Evan Pérot has endured and will continue to endure pain, suffering, mental  
11 anguish, and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a  
12 loss of earning capacity, and other injuries and damages to be proven at trial.  
13  
14

15 90. Plaintiff Robert Lee White is and was at all relevant times a citizen of the State of  
16 Tennessee and domiciled in Memphis, Tennessee. Plaintiff Robert Lee White purchased and ingested  
17 the following TDF Drugs for an FDA-approved use of the drugs: Viread and Truvada beginning in  
18 2003. As a result of Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff  
19 ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused  
20 and/or contributed to Plaintiff suffering damage to his kidneys, which resulted in a diagnosis of renal  
21 failure requiring dialysis. Plaintiff Robert Lee White required and incurred and will continue to  
22 require and incur expenses in connection with medical treatment as a result of these injuries,  
23 including dialysis. Plaintiff has endured and will continue to endure pain, suffering, mental anguish,  
24 and loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss of  
25 earning capacity, and other injuries and damages to be proven at trial.  
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1           91. Plaintiff Rocky Brian Bass is and was at all relevant times a citizen of the  
2 Commonwealth of Kentucky and domiciled in Radcliff, Kentucky. Plaintiff Rocky Brian Bass  
3 purchased and ingested the following TDF Drugs for an FDA-approved use of the drugs: Atripla and  
4 Stribild beginning in 2011. As a result of Gilead’s wrongful conduct with respect to the defective  
5 TDF Drugs, Plaintiff ingested and was injured by the foregoing TDF Drugs. Plaintiff’s ingestion of  
6 the TDF Drugs caused and/or contributed to Plaintiff suffering kidney damage and dysfunction,  
7 which resulted in a diagnosis of Stage 3 Chronic Kidney Disease and acute kidney failure. Plaintiff  
8 required and incurred and will continue to require and incur expenses in connection with medical  
9 treatment as a result of these injuries, including hospitalization for three weeks. Plaintiff Rocky Brian  
10 Bass has endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment  
11 of life as a result of his injuries, has suffered lost earnings and/or a loss of earning capacity, and other  
12 injuries and damages to be proven at trial.  
13  
14

15           92. Plaintiff Rodney Conwell is and was at all relevant times a citizen of the State of  
16 Georgia and domiciled in Atlanta, Georgia. Plaintiff Rodney Conwell purchased and ingested the  
17 following TDF Drug for an FDA-approved use of the drug: Atripla beginning in 2006. As a result of  
18 Gilead’s wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was  
19 injured by the foregoing TDF Drug. Plaintiff’s ingestion of the TDF Drug caused and/or contributed  
20 to Plaintiff suffering bone demineralization, which resulted in a diagnosis of osteoporosis and which  
21 caused or contributed to fractures to Plaintiff’s toes. Plaintiff Rodney Conwell required and incurred  
22 and will continue to require and incur expenses in connection with medical treatment as a result of  
23 these injuries. Plaintiff has endured and will continue to endure pain, suffering, mental anguish, and  
24 loss of enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss of earning  
25 capacity, and other injuries and damages to be proven at trial.  
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1           93. Plaintiff Rose Giannotti, individually and as personal representative for the estate  
2 Daisy Ojeda, is and was at all relevant times a citizen of the State of Tennessee and domiciled in  
3 Riceville, Tennessee. Plaintiff Rose Giannotti is the sister of Decedent Daisy Ojeda. Decedent Daisy  
4 Ojeda purchased and ingested the following TDF Drugs for an FDA-approved use of the drugs:  
5 Truvada and Atripla beginning in 2004. As a result of Gilead’s wrongful conduct with respect to the  
6 defective TDF Drugs, Decedent ingested and was injured by the foregoing TDF Drugs. Decedent’s  
7 ingestion of the TDF Drugs caused and/or contributed to Plaintiff suffering bone demineralization  
8 which resulted in a diagnosis of osteoporosis and which caused or contributed to a fracture to  
9 Decedent’s elbow and several fractures to her toes. Prior to her death, Decedent required and  
10 incurred expenses in connection with medical treatment as a result of these injuries, including  
11 hospitalization and surgery. As a direct and/or contributory and proximate result of Defendant  
12 Gilead’s wrongful conduct, Decedent Daisy Ojeda suffered severe bodily injuries, pain, suffering,  
13 mental anguish, loss of enjoyment of life, lost wages and/or a loss of earning capacity; and other  
14 damages to be proven at trial.  
15  
16

17           94. Plaintiff Samuel Cordoba is and was at all relevant times a citizen of the  
18 Commonwealth of Pennsylvania and domiciled in Allentown, Pennsylvania. Plaintiff Samuel  
19 Cordoba purchased and ingested the following TDF Drugs for an FDA-approved use of the drugs:  
20 Viread and Truvada beginning in 2001. As a result of Gilead’s wrongful conduct with respect to the  
21 defective TDF Drugs, Plaintiff ingested and was injured by the foregoing TDF Drugs. Plaintiff’s  
22 ingestion of the TDF Drugs caused and/or contributed to Plaintiff suffering bone density loss, which  
23 resulted in a diagnosis of osteopenia. Plaintiff required and incurred and will continue to require and  
24 incur expenses in connection with medical treatment as a result of these injuries. Plaintiff has  
25 endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as  
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1 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 95. Plaintiff Sandi Perry is and was at all relevant times a citizen of the State of Georgia  
4 and domiciled in Acworth, Georgia. Plaintiff Sandi Perry purchased and ingested the following TDF  
5 Drug for an FDA-approved use of the drug: Truvada beginning in 2008. As a result of Gilead's  
6 wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was injured by the  
7 foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed to Plaintiff  
8 suffering bone density loss, which resulted in a diagnosis of osteoporosis. Plaintiff required and  
9 incurred and will continue to require and incur expenses in connection with medical treatment as a  
10 result of these injuries. Plaintiff has endured and will continue to endure pain, suffering, mental  
11 anguish, and loss of enjoyment of life as a result of her injuries, and has suffered other injuries and  
12 damages to be proven at trial.  
13  
14

15 96. Plaintiff Sharon Amos-Luckett is and was at all relevant times a citizen of the State of  
16 Tennessee and domiciled in Clarksville, Tennessee. Plaintiff Sharon Amos-Luckett purchased and  
17 ingested the following TDF Drug for an FDA-approved use of the drug: Atripla beginning in 2009.  
18 As a result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested  
19 and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or  
20 contributed to Plaintiff suffering kidney failure. 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 has endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of  
23 life as a result of her injuries, has suffered lost earnings and/or a loss of earning capacity, and other  
24 injuries and damages to be proven at trial.  
25

26 97. Plaintiff Shaunessey Washington is and was at all relevant times a citizen of the State  
27 of Georgia and domiciled in Stockbridge, Georgia. Plaintiff Shaunessey Washington purchased and  
28

1 ingested the following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2004.  
2 As a result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested  
3 and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or  
4 contributed to Plaintiff suffering severe kidney damage and dysfunction, which resulted in a  
5 diagnosis of End Stage Renal Disease and required dialysis treatments three times per week at the  
6 young age of thirty-seven. Plaintiff's End Stage Renal Disease and related deterioration has caused  
7 Plaintiff extreme fatigue, pain and suffering and has required that he cease his professional career  
8 dressing mannequins and setting up clothing store windows. Plaintiff's condition is so painful and  
9 debilitating that he can no longer participate in activities he once enjoyed, including working,  
10 dancing, bowling, going to movie theatres, running, walking or standing for long periods of time.  
11 Plaintiff required and incurred and will continue to require and incur expenses in connection with  
12 medical treatment as a result of these injuries, including dialysis treatments. Plaintiff Shaunessey  
13 Washington has endured and will continue to endure pain, suffering, mental anguish, and loss of  
14 enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss of earning  
15 capacity, and other injuries and damages to be proven at trial.  
16  
17

18 98. Plaintiff Sherita Y. Houston, individually and as personal representative for the Estate  
19 of Diez Ami Edwards, is and was at all relevant times a citizen of the State of Georgia and domiciled  
20 in Albany, Georgia. Plaintiff Sherita Y. Houston is the mother of Diez Ami Edwards, deceased.  
21 Decedent Diez Ami Edwards purchased and ingested the following TDF Drug for an FDA-approved  
22 use of the drug: Viread beginning in 2017. As a result of Gilead's wrongful conduct with respect to  
23 the defective TDF Drug, Decedent ingested and was injured by the foregoing TDF Drug. Decedent's  
24 ingestion of the TDF Drug caused or contributed to Decedent suffering kidney failure, which  
25 ultimately resulted in his death at the young age of twenty-eight. Decedent required and incurred  
26 expenses in connection with medical treatment as a result of these injuries, including hospitalization  
27  
28

1 and dialysis treatments. As a direct and proximate result of Defendant Gilead's wrongful conduct,  
2 Decedent suffered severe bodily injuries, pain, suffering, mental anguish, loss of enjoyment of life  
3 and loss of earnings and/or earning capacity, up to the time of his death. Gilead's wrongful conduct  
4 was a direct and proximate cause of Decedent's death. As a direct and proximate result of Gilead's  
5 wrongful conduct, Plaintiff Sherita Y. Houston, individually and in her capacity as representative for  
6 the Estate of Diez Ami Edwards, has suffered loss of affection, society, assistance, emotional  
7 support, care, comfort, solace, companionship, maintenance, support and services; and, the Estate  
8 has suffered past and future pecuniary including lost earning capacity, necessary expenses for  
9 medical treatment, funeral and burial expenses, and other damages to be proven at trial.  
10

11 99. Plaintiff Steaven Michael Duffy is and was at all relevant times a citizen of the State  
12 of Louisiana and domiciled in Hammond, Louisiana. Plaintiff Steaven M. Duffy purchased and  
13 ingested the following TDF Drugs for an FDA-approved use of the drugs: Viread, Truvada and  
14 Stribild beginning in 2001. As a result of Gilead's wrongful conduct with respect to the defective  
15 TDF Drugs, Plaintiff ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of  
16 the TDF Drugs caused Plaintiff to suffer bone demineralization in 2015 at the young age of forty-  
17 one. Plaintiff required and incurred and will continue to require and incur expenses in connection  
18 with medical treatment as a result of these injuries. Plaintiff has endured and will continue to endure  
19 pain, suffering, mental anguish, and loss of enjoyment of life as a result of his injuries, has suffered  
20 lost earnings and/or a loss of earning capacity, and other injuries and damages to be proven at trial.  
21  
22

23 100. Plaintiff Steven D. Edwards is and was at all relevant times a citizen of the State of  
24 Georgia and domiciled in Stone Mountain, Georgia. Plaintiff Steven D. Edwards purchased and  
25 ingested the following TDF Drugs for an FDA-approved use of the drugs: Viread and Atripla  
26 beginning in 2001. As a result of Gilead's wrongful conduct with respect to the defective TDF  
27 Drugs, Plaintiff ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of the  
28

1 TDF Drugs caused and/or contributed to Plaintiff suffering End Stage Renal Disease requiring  
2 dialysis treatments. Plaintiff's injuries have had a negative impact on his career as an administrative  
3 coordinator in that his injuries have caused and/or contributed to Plaintiff retiring from that career.  
4 Plaintiff 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

9 101. Plaintiff Teresa Alston Wilson is and was at all relevant times a citizen of the State of  
10 Georgia and domiciled in Statesboro, Georgia. Plaintiff Teresa Alston Wilson purchased and  
11 ingested the following TDF Drugs for an FDA-approved use of the drugs: Viread, Truvada and  
12 Atripla beginning in 2004. As a result of Gilead's wrongful conduct with respect to the defective  
13 TDF Drugs, Plaintiff ingested and was injured by the foregoing TDF Drugs. Plaintiff's ingestion of  
14 the TDF Drugs caused and/or contributed to Plaintiff suffering kidney failure requiring dialysis  
15 treatments. Plaintiff's injuries have had a negative impact on her career as a Chef in that her injuries  
16 have caused Plaintiff to retire. Plaintiff required and incurred and will continue to require and incur  
17 expenses in connection with medical treatment as a result of these injuries. Plaintiff has endured and  
18 will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of  
19 her injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and  
20 damages to be proven at trial.  
21  
22

23 102. Plaintiff Theond Brown is and was at all relevant times a citizen of the  
24 Commonwealth of Pennsylvania and domiciled in Philadelphia, Pennsylvania. Plaintiff Theond  
25 Brown purchased and ingested the following TDF Drugs for an FDA-approved use of the drugs:  
26 Viread, Truvada and Atripla beginning in 2003. As a result of Gilead's wrongful conduct with  
27 respect to the defective TDF Drugs, Plaintiff ingested and was injured by the foregoing TDF Drugs.  
28



1 Plaintiff's ingestion of the TDF Drugs caused and/or contributed to Plaintiff suffering reduced  
2 kidney function and renal failure. Plaintiff's ingestion of the TDF Drugs also caused and/or  
3 contributed to Plaintiff suffering bone demineralization, which resulted in a diagnosis of osteoporosis  
4 and which caused or contributed to a fracture to Plaintiff's left foot and right ankle. Plaintiff Theond  
5 Brown required and incurred and will continue to require and incur expenses in connection with  
6 medical treatment as a result of these injuries, including dialysis, surgery and physical therapy.  
7 Plaintiff has endured and will continue to endure pain, suffering, mental anguish, and loss of  
8 enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss of earning  
9 capacity, and other injuries and damages to be proven at trial.  
10

11       103. Plaintiff Thomas E. Jones is and was at all relevant times a citizen of the State of  
12 Georgia and domiciled in Atlanta, Georgia. Plaintiff Thomas E. Jones purchased and ingested the  
13 following TDF Drugs for an FDA-approved use of the drugs: Truvada and Viread. As a result of  
14 Gilead's wrongful conduct with respect to the defective TDF Drugs, Plaintiff ingested and was  
15 injured by the foregoing TDF Drugs. Plaintiff's ingestion of the TDF Drugs caused Plaintiff to suffer  
16 bone demineralization, which resulted in a diagnosis of osteoporosis. Plaintiff required and incurred  
17 and will continue to require and incur expenses in connection with medical treatment as a result of  
18 these injuries, including surgery and physical therapy. Plaintiff Thomas E. Jones has endured and  
19 will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of  
20 his injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and  
21 damages to be proven at trial.  
22  
23

24       104. Plaintiff Timothy Hayes is and was at all relevant times a citizen of the State of New  
25 York and domiciled in Saint Albans, New York. Plaintiff Timothy Hayes purchased and ingested the  
26 following TDF Drug for an FDA-approved use of the drug: Atripla beginning in 2013. As a result of  
27 Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was  
28

1 injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed  
2 to Plaintiff suffering high creatinine levels and which required Plaintiff to undergo dialysis  
3 treatments. Plaintiff required and incurred and will continue to require and incur expenses in  
4 connection with medical treatment as a result of these injuries, including expensive and painful  
5 kidney dialysis treatments while waiting for kidney transplantation surgery. Plaintiff Timothy Hayes  
6 has endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of  
7 life as a result of his injuries, has suffered lost earnings and/or a loss of earning capacity, and other  
8 injuries and damages to be proven at trial.  
9

10 105. Plaintiff Tom Woodland is and was at all relevant times a citizen of the State of  
11 Tennessee and domiciled in Covington, Tennessee. Plaintiff Tom Woodland purchased and ingested  
12 the following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2008. As a  
13 result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and  
14 was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or  
15 contributed to Plaintiff suffering kidney disease. Plaintiff Tom Woodland required and incurred and  
16 will continue to require and incur expenses in connection with medical treatment as a result of these  
17 injuries. Plaintiff has endured and will continue to endure pain, suffering, mental anguish, and loss of  
18 enjoyment of life as a result of his injuries, has suffered lost earnings and/or a loss of earning  
19 capacity, and other injuries and damages to be proven at trial.  
20  
21

22 106. Plaintiff Wanda G. McCray is and was at all relevant times a citizen of the State of  
23 Louisiana and domiciled in Baton Rouge, Louisiana. Plaintiff Wanda G. McCray purchased and  
24 ingested the following TDF Drug for an FDA-approved use of the drug: Truvada beginning in 2011.  
25 As a result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested  
26 and was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or  
27 contributed to Plaintiff suffering bone demineralization. Plaintiff Wanda G. McCray required and  
28

1 incurred and will continue to require and incur expenses in connection with medical treatment as a  
2 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 her injuries, has suffered lost earnings and/or a  
4 loss of earning capacity, and other injuries and damages to be proven at trial.

5  
6 107. Plaintiff William D. Greenawalt, individually and as personal representative for the  
7 Estate of Steven Greenawalt, is and was at all relevant times a citizen of the State of Indiana and  
8 domiciled in Goshen, Indiana. Plaintiff William D. Greenawalt is the father of Steven Greenawalt,  
9 deceased. Decedent Steven Greenawalt purchased and ingested the following TDF Drug for an FDA-  
10 approved use of the drug: Atripla beginning in March of 2013. As a result of Gilead's wrongful  
11 conduct with respect to the defective TDF Drug, Decedent ingested and was injured by the foregoing  
12 TDF Drug. Decedent's ingestion of the TDF Drug caused and/or contributed to Decedent suffering  
13 acute kidney failure, which ultimately resulted in his death. Decedent required and incurred expenses  
14 in connection with medical treatment as a result of these injuries, including hospitalization and  
15 dialysis treatments. As a direct and proximate result of Defendant Gilead's wrongful conduct,  
16 Decedent Steven Greenawalt suffered severe bodily injuries, pain, suffering, mental anguish, loss of  
17 enjoyment of life and loss of earnings and/or earning capacity, up to the time of his death. Gilead's  
18 wrongful conduct was a direct and proximate cause of Decedent's death. As a direct and proximate  
19 result of Gilead's wrongful conduct, Plaintiff William D. Greenawalt, individually and in his capacity  
20 as representative for the Estate of Steven Greenawalt, has suffered loss of affection, society,  
21 assistance, emotional support, care, comfort, solace, companionship, maintenance, support and  
22 services; and, the Estate has suffered past and future pecuniary including lost earning capacity,  
23 necessary expenses for medical treatment, funeral and burial expenses, and other damages to be  
24 proven at trial.  
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1           108. Plaintiff William Hayes is and was at all relevant times a citizen of the  
2 Commonwealth of Kentucky and domiciled in Bowling Green, Kentucky. Plaintiff William Hayes  
3 purchased and ingested the following TDF Drugs for an FDA-approved use of the drugs: Viread,  
4 Truvada and Stribild. As a result of Gilead’s wrongful conduct with respect to the defective TDF  
5 Drugs, Plaintiff ingested and was injured by the foregoing TDF Drugs. Plaintiff’s ingestion of the  
6 TDF Drugs caused Plaintiff to suffer bone demineralization, which resulted in a diagnosis of  
7 osteoporosis and which caused or contributed to a fracture to Plaintiff’s spine and loss of two inches  
8 in height. Plaintiff required and incurred and will continue to require and incur expenses in  
9 connection with medical treatment as a result of these injuries. Plaintiff has endured and will  
10 continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of his  
11 injuries, and other injuries and damages to be proven at trial.  
12

13           109. Plaintiff William Mims is and was at all relevant times a citizen of the  
14 Commonwealth of Pennsylvania and domiciled in Erie, Pennsylvania. Plaintiff William Mims  
15 purchased and ingested the following TDF Drug for an FDA-approved use of the drug: Truvada  
16 beginning in 2004. As a result of Gilead’s wrongful conduct with respect to the defective TDF Drug,  
17 Plaintiff ingested and was injured by the foregoing TDF Drug. Plaintiff’s ingestion of the TDF Drug  
18 caused and/or contributed to Plaintiff suffering severe kidney damages and dysfunction, which  
19 resulted in a diagnosis of End Stage Renal Disease requiring dialysis treatments. Plaintiff required  
20 and incurred and will continue to require and incur expenses in connection with medical treatment as  
21 a result of these injuries, including kidney treatments in the hospital. Plaintiff William Mims has  
22 endured and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as  
23 a result of his injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries  
24 and damages to be proven at trial.  
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1           110. Plaintiff Yulanda P. Smith is and was at all relevant times a citizen of the State of  
2 Louisiana and domiciled in Arcadia, Louisiana. Plaintiff Yulanda P. Smith purchased and ingested  
3 the following TDF Drug for an FDA-approved use of the drug: Atripla beginning in 2007. As a result  
4 of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and was  
5 injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or contributed  
6 to Plaintiff suffering renal failure. Plaintiff Yulanda P. Smith required and incurred and will continue  
7 to require and incur expenses in connection with medical treatment as a result of these injuries.  
8 Plaintiff has endured and will continue to endure pain, suffering, mental anguish, and loss of  
9 enjoyment of life as a result of her injuries, has suffered lost earnings and/or a loss of earning  
10 capacity, and other injuries and damages to be proven at trial.  
11

## 12           **V.     FACTUAL ALLEGATIONS**

13           111. Gilead's "Company Overview" states: "With each new discovery and investigational  
14 new drug candidate, we seek to improve the care of patients living with life-threatening diseases around  
15 the world."<sup>3</sup> It would more accurately state: We seek to improve the care of patients living with life-  
16 threatening diseases *only if and when it suits the company's financial needs*.  
17

### **A.     Background**

#### **1.     Laws and regulations governing the approval and labeling of prescription drugs.**

18           112. The Federal Food, Drug, and Cosmetic Act ("FDCA" or the "Act") requires  
19 manufacturers that develop a new drug product to file a New Drug Application ("NDA") in order to  
20 obtain approval from the Food and Drug Administration ("FDA") before selling the drug in interstate  
21 commerce. 21 U.S.C. § 355.  
22

23           113. The NDA must include, among other things, data regarding the safety and effectiveness  
24 of the drug, information on any patents that purportedly cover the drug or a method of using the drug,  
25 and the labeling proposed to be used for the drug. 21 U.S.C. § 355(b).  
26

27  
28           <sup>3</sup> See, e.g., Gilead Sciences Company Overview, available at [http://www.gilead.com/~media/Files/pdfs/other/US%20Corporate%20Overview%20%20111014.pdf](http://www.gilead.com/~/media/Files/pdfs/other/US%20Corporate%20Overview%20%20111014.pdf).

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

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

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

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

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

21 119. The warnings section of the label “must identify any laboratory tests helpful in  
22 following the patient’s response or in identifying possible adverse reactions. If appropriate,  
23 information must be provided on such factors as the range of normal and abnormal values expected in  
24 the particular situation and the recommended frequency with which tests should be performed before,  
25 during, and after therapy.” Id. § 201.57(c)(6)(iii). According to an FDA Guidance for Industry on the  
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1 warnings and precautions section of the labeling, “[i]nformation about the frequency of testing and  
2 expected ranges of normal and abnormal values should also be provided if available.”<sup>4</sup>

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

5 121. An August 22, 2008 amendment to these regulations provides that a CBE supplement  
6 to amend the labeling for an approved product must reflect “newly acquired information.” 73 Fed.  
7 Reg. 49609. “Newly acquired information” is not limited to new data but also includes “new analysis  
8 of previously submitted data.” “[I]f a sponsor submits adverse event information to FDA, and then  
9 later conducts a new analysis of data showing risks of a different type or of greater severity or  
10 frequency than did reports previously submitted to FDA, the sponsor meets the requirement for ‘newly  
11 acquired information.’” *Id.* at 49607.

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

20 123. As a counter-balance to the abbreviated process for the approval of generic drugs,  
21 Hatch-Waxman may grant brand manufacturers a period of market exclusivity upon approval of the  
22 NDA. For example, Hatch-Waxman grants a five-year period of exclusivity (regardless of any patent  
23 protection) to products containing chemical entities not previously approved by the FDA. Under this  
24 five-year exclusivity, the FDA cannot even accept an ANDA to make a generic version of the drug for  
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<sup>4</sup> <https://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM075096.pdf>.

1 four or five years from NDA approval (depending upon whether the generic asserted that the brand's  
2 patents were invalid or not infringed).

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

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

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

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

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



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

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

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

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

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

25           133. While TDF is able to be taken by mouth, the proportion of tenofovir that enters the cells  
26 is relatively low. In order to have the desired therapeutic effect, a high dose of TDF must be  
27 administered. The standard dose of TDF for HIV treatment and prevention in adults is relatively  
28 large—300 mg taken once a day. A general principle of toxicology is that the “dose makes the

1 poison”—i.e., larger doses are generally associated with higher rates of toxicity and adverse events.  
2 Tenovofir is no different.

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

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

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

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

25 138. On August 10, 2011, the FDA approved Gilead’s NDA 202123 for Complera tablets,  
26 which is a fixed dose combination product containing 300 mg TDF, 200 mg emtricitabine, and 25 mg  
27 rilpivirine, for use as a complete regimen for the treatment of HIV-1 infection in treatment-naïve adults  
28 (i.e., adults who had not been previously treated for HIV). None of the active ingredients in Complera

1 were new. Gilead submitted no new clinical safety or efficacy trials in connection with NDA 20123.  
2 Approval was based on the results of bioequivalence studies comparing the combination product to  
3 the individual component drugs. In addition, the primary focus of the FDA’s safety and medical review  
4 of the Complera NDA was on rilpivirine, since that drug was the most recently approved component  
5 of the fixed dose combination Complera tablet.

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

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

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

27 142. On November 5, 2015, the FDA approved Gilead’s first TAF-based design—NDA  
28 207561 for Genvoya tablets, a fixed dose combination product which contains 10 mg TAF, 200 mg

1 emtricitabine, 150 mg elvitegravir, and 150 mg cobicistat. Genvoya is indicated for the treatment of  
2 HIV-1 infection in adults and pediatric patients 12 years of age or older who have no antiretroviral  
3 treatment history or to replace the current antiretroviral regimen in those who are virologically  
4 suppressed (HIV-1 RNA less than 50 copies per mL) on a stable antiretroviral regimen for at least six  
5 months with no history of treatment failure and no known substitutions associated with resistance to  
6 the individual components of Genvoya. The TDF-based counterpart to Genvoya is Stribild. Genvoya  
7 is identical to Stribild except for the substitution of TAF for TDF.

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

17 144. On April 4, 2016, the FDA approved Gilead's NDA 208215 for Descovy tablets, which  
18 is a fixed dose combination product containing 25 mg TAF and 200 mg emtricitabine, for use in  
19 combination with other antiretroviral agents, for treatment of HIV-1 infection in adults and pediatric  
20 patients 12 years of age or older. The TDF-based counterpart to Descovy is Truvada. Descovy is  
21 identical to Truvada except for the substitution of TAF for TDF.

22 145. Upon information and belief, Gilead has not sought FDA approval of a standalone TAF  
23 drug product for the treatment of HIV. Viread, therefore, has no TAF-based counterpart for the  
24 treatment of HIV infection. Although the FDA approved Gilead's NDA 208464 for Vemlidy (300 mg  
25 TAF) tablets on November 10, 2016, Gilead only sought approval to market Vemlidy for the treatment  
26 of Hepatitis B infection in adults with compensated liver disease and thus cannot be marketed for the  
27 treatment of HIV.

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

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

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

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

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

22 150. Tenofovir has a nearly identical structure to adefovir, varying only by the presence of  
23 a methyl group (i.e., a carbon atom bound to three hydrogen atoms) in tenofovir, which replaces a  
24 hydrogen atom in adefovir. As Gilead recognized in its 10-K for the year ending December 31, 2000,  
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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 due to its experiences with nephrotoxicity in Phase III clinical trials of adefovir dipovoxil, delayed  
2 toxicity issues similar to those experienced with adefovir dipivoxil could arise with TDF.

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

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

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

18 154. In Bowman's capsule, the filtrate is collected and drains into the other primary  
19 component of the nephron, the tubule. Glomerular filtration is highly effective at removing many  
20 toxins, but it also filters out many compounds, like water and electrolytes, that a person needs. In the  
21 tubule, the cells lining the tubule put these crucial, non-toxic compounds back into the blood, as well  
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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 as filter out remaining toxins that glomerular filtration did not remove. After the filtrate exits the tubule,  
2 it drains into the bladder. This processed filtrate is urine.

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

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

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

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

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

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

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

5 161. 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.

10 162. 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.

13 163. 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.

19 164. 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  
22 impairment, including increased creatinine, renal insufficiency, kidney failure,  
23 and Fanconi 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  
5           and urinary disorders that patients had experienced while on TDF.

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

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

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

19           167.    Several new studies presented at the February 2006 Conference on Retroviruses and  
20    Opportunistic Infections (“CROI”) highlighted the frequency of nephrotoxicity in TDF-treated  
21    patients. In one study, CDC investigators analyzed longitudinal data from 11,362 HIV-infected  
22

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

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

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

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

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

1 patients, all of whom had GFR > 90mL/min at baseline, and found that treatment with TDF was  
2 significantly associated with mild and moderate renal insufficiency. In another, observational study of  
3 497 patients initiating TDF treatment, 17.5% developed renal dysfunction. The most severe declines  
4 in renal function were associated with TDF treatment as part of a boosted regimen.

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

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

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

1           171. 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           172. 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           173. During 2009–2011, studies continued to show that TDF caused a significant loss of  
9 renal function in HIV-infected patients.

10           174. 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           175. 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           176. 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>

3 177. 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.**

8 178. 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%.

13 179. 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.

19 180. 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>

22 181. 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  
25

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

28 <sup>16</sup> Viread (tenofovir disoproxil fumarate) Tablets label at 17, available at  
[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>

3 182. 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.

5 183. 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.**

11 184. 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.

14 185. 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.

21 186. 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.

27  
28 

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

1           187. 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           188. 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           189. 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           190. 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>

23           191. At the end of the first quarter of 2002, Gilead told investors that it had initiated Phase  
24 I/II testing of GS-7340. In an earnings call, Gilead stated that it had initiated a dose escalation study

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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 for GS-7340 through which Gilead intended to prove that GS-7340 was more potent than Viread,  
2 meaning that it could be administered at a safer, lower dose.

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

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

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

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

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

19  
20 Earlier this year as a result of positive data from a small phase I/II  
21 study of GS 7340, we began designing a phase II program to determine  
22 the safety and efficacy of the compound in treatment-naive patients  
23 and in highly treatment experienced patients. Since that time we have  
24 witnessed the increasing use of Viread across all HIV patient  
25 populations, and we have also received approval for and launched  
26 Truvada.

27  
28 Based on our internal business review and ongoing review of the  
scientific data for GS 7340, we came to the conclusion that it would be

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

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

1 unlikely that GS 7340 would emerge as a product that could be highly  
2 differentiated from Viread.<sup>22</sup>

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

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

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

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

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

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

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

28 <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>.

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



1           201. 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           202. 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           203. 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           204. 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           205. 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  
22 1/10th the Viread dose and you would actually get higher efficacy with  
23 less exposure. So we’re looking at this to be used in sub population  
24 where people have a concern with Viread, and the one with renal  
impairment, elderly people that have reduced renal function, and the  
other population will be adults that have preexisting or suspicion of  
bone disease, osteoporosis, and that’s where we are initially going to  
position the compound.<sup>24</sup>

25           206. Giving a statement at the Capital Markets Healthcare Conference on March 2, 2011,  
26 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  
4 One of the reasons why we were concerned about developing 7340  
5 was we were trying to launch Truvada versus Epzicom<sup>25</sup> at that time.  
6 And to have our own study suggesting that Viread wasn't the safest  
7 thing on the market, which it certainly was at the time. ... It didn't  
8 seem like the best. It seemed like we would have a mix[ed] message.  
9 And in fact that Viread story is split out to be a fairly safe product over  
10 the years. There are some concerns still on kidney toxicity and there  
11 are some concerns about bone toxicity.<sup>26</sup>

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

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

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

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

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

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

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

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

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

1 for these patients and we think that it's a currently unmet medical need  
2 to 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.

6 210. 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.

8 211. 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.

15 212. 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>

17 213. 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).

20 214. 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

24  
25 <sup>29</sup> Gilead Sciences Inc. at NASDAQ OMS 26th Investor Program – Final, FD (Fair Disclosure)  
Wire, June 21, 2011.

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

28 <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.**

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

7 216. 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.

9 217. 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.

13 218. 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.

20 219. 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.

24 220. 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           221. 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           222. Gilead boasted about TAF’s potential to extend its HIV franchise, which has been the  
9 core of its business.

10           223. 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           224. 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           225. 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.**

3 226. 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.

6 227. 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.

8 228. 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.

12 229. 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.

18 230. 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.

23 231. 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           232. 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           233. 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           234. 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           235. 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  
24  
25  
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27           <sup>35</sup> FDA Center for Drug Evaluation and Research, Genvoya NDA 207561 Clinical Pharmacology  
28 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).

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.

5 236. 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.

7 237. 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.

13 238. 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>

16 239. 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>

19 240. 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  
22

23 \_\_\_\_\_  
24 <sup>36</sup> In the EU, Gilead recommends that adults with creatinine clearance below 50 mL/min take  
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,  
available at [https://www.accessdata.fda.gov/drugsatfda\\_docs/nda/2012/203100Orig1s000MedR.pdf](https://www.accessdata.fda.gov/drugsatfda_docs/nda/2012/203100Orig1s000MedR.pdf).

26 <sup>38</sup> FDA Center for Drug Evaluation and Research Stribild NDA 203100 Cross Discipline Team  
27 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).

28 <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.

6 241. 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.

14 242. 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.**

23 243. 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.

3 244. 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.

8 245. 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.

15 246. 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.

22 247. 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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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>

3 248. 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.

5 249. 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.

11 250. 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.

14 251. 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>

17 252. 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.**

21 253. 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  
24 waste from your blood. That’s why it’s so important to take care of them, especially if you have HIV-  
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26  
27 <sup>43</sup> *Id.* at 15.

28 <sup>44</sup> FDA Center for Drug Evaluation and Research Vemlidy NDA 208464 Summary Review at 5,  
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 1.”<sup>45</sup> Gilead states that the TAF-based products have “less impact on kidney lab tests” than other  
2 approved HIV-1 treatments, including Stribild, Atripla, and Truvada. The website also highlights that  
3 unlike its TDF products, the TAF-based products are “FDA-approved for people with mild-to-  
4 moderate kidney problems and can be used in some people with lowered kidney function without  
5 changing the dose.”<sup>46</sup>

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

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

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

22 257. In 2016, Gilead scientists presented to CROI attendees data evaluating the renal safety  
23 of TAF in patients with a high risk of kidney disease. Gilead stated that TDF “has been associated with  
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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.croiconference.org/sites/default/files/posters-2015/795.pdf>.

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

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

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

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

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

23  
24  
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).

<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).

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

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

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

17           265.    According to Milligan, Genvoya was the most successful launch ever for an HIV  
18 therapy. After six months on the market, Genvoya was the most prescribed regimen for treatment-  
19 naïve and switch patients.

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

23                   [A]s I look at TAF right now there’s a very strong medical rationale  
24                   for TAF versus Viread. And so what we’re seeing in the marketplace  
25                   with the launch of Genvoya and then with the recent approval of  
                    Odefsey is the desire to move patients from a TDF containing regimen  
                    to a TAF containing regimen ... it’s very interesting that the field

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 wants to move to the safest medication, I think should move to the  
2 safest medication because it's a great opportunity for patients to stay  
3 on care for another 10 to 20 years which is really where we're at with  
most of these patients. They're going to need decades more care and so  
you need the gentlest, safest option for patients....<sup>58</sup>

4 267. Gilead's 2017 Annual Report attributes strong growth in its HIV business to  
5 "widespread physician acceptance and uptake" of the TAF-based regimens.<sup>59</sup>

6 268. In January 2018, Milligan stated that "physicians and patients prefer TAF dramatically  
7 over our TDF-containing backbones," noting that its TAF-based products had achieved more than 56%  
8 of the market share of its TDF-containing regimen.<sup>60</sup> TAF-based products now make up at least 74%  
9 of Gilead's TDF- and TAF-based drug products for HIV treatment.

10 269. Gilead could have and should have incorporated the benefits of TAF, which doctors  
11 and patients "prefer dramatically" over TDF, into its products years earlier.

12 270. Gilead funded a 2018 study, Baumgardner, J., *et al.*, "Modeling the impacts of  
13 restrictive formularies on patients with HIV," that highlights the damage Gilead did by withholding  
14 TAF products from the market. The authors found that a restrictive drug formulary design,<sup>61</sup> which  
15 restricts access to TAF or TDF-sparing regimens (other antiviral drugs, abacavir, lamuvidine, and  
16 douletegravir), forcing more people to use TDF-containing regimens, would cause 171,500 more  
17 cumulative bone and renal events and 16,500 more deaths by 2025 compared to an open formulary  
18 design which permitted patients to start on TAF. Gilead itself prevented patients from taking TAF for  
19 more than a decade—longer than the period covered by the 2018 study. Gilead likely caused even  
20 more deaths and injuries as a result of its callous decision to withhold the safer TAF drugs.

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

25 <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>.

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

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

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

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

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

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

12 273. During the first years Viread was on the market, Gilead relied on Viread sales for a  
13 significant portion of its operating income. For 2002, Viread's first full year on the market, Viread  
14 sales comprised 53% of Gilead's total product sales. In 2003, Viread accounted for 68% of Gilead's  
15 total product sales.

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

20 275. To make sure that safety issues did not depress or slow the growth of Viread sales,  
21 which were crucial to Gilead's operations, Gilead dramatically increased its sales force and marketing  
22 budget, and trained its sales representatives to deceptively represent Viread's safety profile. At the  
23 direction of Gilead's senior management, Gilead representatives told doctors that Viread was a  
24 "miracle drug," "extremely safe," and "extremely well-tolerated" with "no toxicities." Gilead's sales  
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<sup>62</sup> Gilead Sciences, Inc. Form 10-K for the fiscal year ended Dec. 31, 2002 at 24 available at  
<https://www.sec.gov/Archives/edgar/data/882095/000104746903008695/a2105292z10-k.htm>.



1 representatives did not tell doctors the facts: that Viread posed significant risks to patients’ kidneys  
2 and bones.

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

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

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

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

24 280. In subsequent years, Gilead continued to downplay the risks of TDF-induced toxicity  
25 when promoting its TDF Drugs to doctors by withholding information about the frequency and severity  
26 of adverse kidney and bone events; dismissing case reports of acute renal failure and other TDF-  
27 associated adverse events as purportedly unavoidable side effects of tenofovir in an otherwise “safe”  
28

1 drug; and failing to tell doctors to monitor patients for drug-induced toxicity using more sensitive  
2 markers of kidney function.

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

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

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

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

22 285. Gilead failed to warn about the need for universal monitoring even after patients  
23 without preexisting risk factors experienced kidney and bone effects.

24 286. Gilead failed to warn about the need for universal renal monitoring even though patients  
25 with a certain level of renal impairment should not take its TDF products or, if TDF products are to be  
26 administered to certain renally impaired patients, the dosing interval must be adjusted. The Viread and  
27 Truvada labels require a dosing interval adjustment for patients with creatinine clearance of 30–49 mL  
28 per minute, and Atripla and Complera cannot be taken by patients with a creatinine clearance of less

1 than 50 mL per minute. Frequent monitoring of all patients' kidney function is necessary to ensure that  
2 patients' kidneys are healthy enough to continue treatment or patients receive a needed dose interval  
3 adjustment.

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

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

14 289. The "all patients" monitoring recommendation for Viread, Truvada, Atripla, and  
15 Complera remained inadequate because it instructed doctors to assess just one, insufficiently sensitive  
16 marker of kidney function.<sup>64</sup> Without using sufficiently sensitive markers of kidney function,  
17 substantial kidney injury can occur before it is measurable. As a result, the detection of TDF-induced  
18 nephrotoxicity often comes too late, resulting in kidney injury that may be irreversible. Gilead should  
19 have warned doctors to test all patients for additional markers of kidney function, such as serum  
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24 <sup>63</sup> Gilead did not add similar warnings to the Truvada and Atripla labels until 2008. Complera's  
25 label included such a warning at the time of FDA approval in 2011. And when Gilead began marketing  
26 Stribild in 2012, it warned doctors to assess some measures of kidney function in all patients but failed  
27 to warn doctors to monitor all patients for serum phosphorus. These warnings remained inadequate.

28 <sup>64</sup> It was not until 2018 that Gilead strengthened the Truvada, Atripla, and Complera labels to  
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  
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>

3 290. 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.

8 291. 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.

18 292. 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.

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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           293. 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           294. 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           295. 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           296. 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           297. 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>

298. 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>

299. 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><b><u>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</u></b> for, or with a history of, renal dysfunction, and patients with renal</p>

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

Viread's U.S. Labeling 12/8/2004	Viread's EU Labeling 12/8/2004
	insufficiency, <b><u>consideration should be given to more frequent monitoring of renal function.</u></b>

300. 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).

301. 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>

302. 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

1 tenofovir disoproxil fumarate and ... also monitored after two to four weeks of treatment, after three  
 2 months of treatment, and every three to six months thereafter in patients without renal risk factors.”  
 3 For patients at risk for renal impairment, Gilead states that more frequent monitoring of renal function  
 4 is “required.”

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

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

Truvada’s U.S. Labeling 08/02/2004	Truvada’s EU Labeling 02/24/2005
<p>12 <b><u>Patients at risk</u></b> for, or with a history of, renal            13 dysfunction and patients receiving concomitant            14 nephrotoxic agents <b><u>should be carefully</u></b>            15 <b><u>monitored for changes in serum creatinine</u></b>            16 <b><u>and phosphorus.</u></b></p>	<p>17 <b><u>Careful monitoring of renal function (serum</u></b>            18 <b><u>creatinine and serum phosphate) is</u></b>            19 <b><u>recommended before taking Truvada, every</u></b>            20 <b><u>four weeks during the first year, and then</u></b>            21 <b><u>every three months.</u></b> In patients with a history of            22 renal dysfunction or <b><u>in patients who are at risk</u></b>            23 <b><u>for renal dysfunction, consideration should be</u></b>            24 <b><u>given to more frequent monitoring of renal</u></b>            25 <b><u>function.</u></b></p>

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

25 306. In Truvada’s most recent SmPC, Gilead continues to instruct doctors as to frequent,  
 26 routine monitoring of renal function (creatinine clearance and serum phosphate) for patients without  
 27 preexisting risk factors for renal disease: at treatment initiation and then “after two to four weeks of  
 28



1 use, after three months of use and every three to six months thereafter.” For patients at risk for renal  
 2 disease, Gilead warns that more frequent monitoring of renal function is “required.”

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

6 308. In 2006, Gilead issued a “Dear Doctor” letter to physicians in the EU about the  
 7 importance of frequent, routine monitoring of all TDF patients’ renal function. Gilead issued no such  
 8 letter to doctors in the U.S., though the risk to patients’ kidneys was the same.

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

Atripla’s U.S. Labeling 07/12/2006	Atripla’s EU Labeling 12/18/2007
<p>13 <u>Patients at risk</u> for, or with a history of, renal                      14 dysfunction and patients receiving concomitant                      15 nephrotoxic agents <u>should be carefully</u>                      16 <u>monitored for changes in serum creatinine</u>                      17 <u>and phosphorus.</u></p>	<p>13 <u>It is recommended that creatinine clearance is</u>                      14 <u>calculated in all patients prior to initiating</u>                      15 <u>therapy with Atripla and renal function</u>                      16 <u>(creatinine clearance and serum phosphate) is</u>                      17 <u>also monitored every four weeks during the</u>                      18 <u>first year and then every three months.</u> In                      patients with a history of renal dysfunction or in  <u>patients who are at risk</u> for renal dysfunction,  <u>consideration must be given to more frequent</u>  <u>monitoring of renal function.</u></p>

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

Atripla’s U.S. Labeling 07/12/2006	Atripla’s EU Labeling 12/18/2007
<p>27 Since ATRIPLA is a combination product and                      28 the dose of the individual components cannot be</p>	<p>If serum phosphate is &lt; 1.5 mg/dl (0.48 mmol/l)                      or creatinine clearance is decreased to &lt; 50</p>

Atripla’s U.S. Labeling 07/12/2006	Atripla’s EU Labeling 12/18/2007
altered, patients with creatinine clearance <50 mL/min should not receive ATRIPLA.	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 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).

311. 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.”

312. 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.

313. 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 <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</u></b> for renal impairment, including patients who have previously experienced renal events while receiving adefovir dipivoxil, <b><u>consideration should be given to more frequent monitoring of renal function.</u></b>

1           314. Like its Viread EU, Truvada EU, and Atripla EU labeling, Gilead’s Complera EU  
2 labeling also instructed physicians to increase monitoring and consider treatment interruption if the  
3 results of frequent monitoring showed that a patient’s serum phosphate or creatinine clearance fell  
4 below a specified level. Gilead’s U.S. labeling stated only that patients with creatinine clearance < 50  
5 mL/min should not receive Complera:

<b>Complera’s U.S. Labeling 08/10/2011</b>	<b>Complera’s EU Labeling 11/30/11</b>
Since COMPLERA is a combination product and the dose of the individual components cannot be altered, patients with creatinine clearance below 50 mL per minute should not receive COMPLERA.	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).

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

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

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

<b>Stribild U.S. Labeling 08/27/2012</b>	<b>Stribild’s EU Labeling 05/27/2013</b>
Estimated creatinine clearance, urine glucose and urine protein should be documented in all	Creatinine clearance should be calculated and urine glucose and urine protein should be

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

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

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

319. 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."

320. 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.

321. 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.

322. 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

1 products in the EU. Gilead knew that it should instruct doctors to monitor all patients for multiple  
 2 markers of kidney function on a frequent schedule but did not do so in the U.S.

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

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

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

Complera’s U.S. Label 03/01/2016	Odefsey’s Labeling 03/01/2016
<p>17 <b><u>It is recommended that estimated creatinine</u></b>                      18 <b><u>clearance be assessed in all patients prior to</u></b>                      19 <b><u>initiating therapy and as clinically</u></b>                      20 <b><u>appropriate during therapy</u></b> with                      21 COMPLERA. In patients at risk of renal                      22 dysfunction, including patients who have                      23 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.</p>	<p>17 <b><u>Estimated creatinine clearance, urine glucose</u></b>                      18 <b><u>and urine protein should be assessed before</u></b>                      19 <b><u>initiating ODEFSEY therapy and should be</u></b>                      20 <b><u>monitored during therapy in all patients.</u></b>                      21 Serum phosphorus should be monitored in                      22 patients with chronic kidney disease because                      23 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></p>

24 326. When the FDA approved Descovy—the TAF version of Truvada—on April 4, 2016,  
 25 Gilead gave stronger monitoring warnings for safer Descovy than it did for Truvada, telling doctors

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

1 that they should monitor all Descovy patients, not just those at risk, for multiple markers of kidney  
2 function:

Truvada U.S. Labeling 04/04/2016	Descovy U.S. Labeling 04/04/2016
<p>3 It is recommended that <u>estimated creatinine</u> 4 <u>clearance be assessed in all individuals prior</u> 5 <u>to initiating therapy and as clinically</u> 6 <u>appropriate during therapy</u> with TRUVADA. 7 In patients at risk of renal dysfunction, including 8 patients who have previously experienced renal 9 events while receiving HEPSERA®, it is 10 recommended that estimated creatinine clearance, serum phosphorus, urine glucose, and urine protein be assessed prior to initiation of TRUVADA, and periodically during TRUVADA therapy.</p>	<p><u>Estimated creatinine clearance, urine glucose,</u> <u>and urine protein should be assessed before</u> <u>initiating DESCOVY therapy and should be</u> <u>monitored during therapy in all patients.</u> 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 DESCOVY in patients who develop clinically significant decreases in renal function or evidence of Fanconi syndrome.</p>

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

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

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

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

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

1           331. On March 26, 2010, the FDA issued another Warning Letter to Gilead, this time in  
2 connection with Gilead’s direct-to-consumer print advertising for Truvada. The FDA stated that  
3 Gilead’s Truvada advertisement was false and misleading because it overstated the efficacy of Truvada  
4 and minimized the risks associated with the drug, in violation of the Federal Food, Drug, and Cosmetic  
5 Act and FDA implementing regulations. The FDA noted that Truvada is associated with “serious risks”  
6 like new onset or worsening renal impairment, including cases of acute renal failure and Fanconi  
7 syndrome (renal tubular injury with severe hypophosphatemia), and decreases in bone mineral density,  
8 including cases of osteomalacia (associated with proximal renal tubulopathy and which may contribute  
9 to fractures). The agency stated that Gilead’s Truvada advertising was false or misleading because it  
10 failed to present the risks associated with Truvada with a prominence and readability comparable to  
11 the statements regarding the drug’s benefits.

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

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

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

24           335. Gilead’s patient package inserts for Viread, Truvada, Atripla, and Complera failed to  
25 adequately warn patients even after Gilead had inadequately updated the warnings in its prescriber  
26 labeling.

27           336. For example, Gilead did not disclose to patients that Viread may cause “new or worse  
28 kidney problems” until more than two years after Gilead added that warning to the Viread prescriber

1 labeling. And Gilead waited many more years before it added the “new or worse kidney problems”  
2 disclosure to the patient package inserts for other TDF products; it did not appear in the Truvada patient  
3 package insert until June 17, 2013 and did not appear in the Atripla patient package insert until July  
4 25, 2018—nearly five and ten years respectively after Gilead first warned doctors that TDF may cause  
5 “new onset or worsening renal impairment.”

6 337. Gilead similarly delayed disclosing to patients in the patient package inserts about  
7 doctors’ need to assess all plaintiffs’ kidney function prior to initiating treatment with TDF. Although  
8 Gilead added that warning to the Viread prescriber labeling in May 2007, it did not tell patients that  
9 “[y]our healthcare provider should do blood tests to check your kidneys before you start treatment”  
10 with TDF until August 16, 2012, for Viread, May 15, 2018, for Truvada, July 25, 2018, for Atripla,  
11 and January 25, 2013, for Complera. At a minimum, Gilead was grossly negligent in failing to ensure  
12 that its warnings to patients were consistent with those it gave to doctors and the patient warnings it  
13 gave were consistent among its various TDF Drugs.

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

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

17 **a. Gilead could have unilaterally strengthened its warnings before FDA**  
18 **approval.**

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

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



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

5           342. In addition, once TDF was on the market, each time Gilead submitted a new TDF Drug  
6 for FDA approval, it did so with years of cumulative knowledge as to the adverse toxic effects of TDF.  
7 Faced with accumulating information about adverse kidney and bone toxicity, including in patients  
8 without preexisting risk factors, Gilead could have strengthened its monitoring warnings before  
9 submitting the drugs for FDA approval.

10           343. The FDA would not have rejected Gilead's stronger warnings. The FDA has, in fact,  
11 approved labels including stronger monitoring warnings for the TDF Drugs, as well as the safer TAF  
12 drugs.

13                   **b. Gilead could have unilaterally strengthened its warnings after FDA**  
14                   **approval.**

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

16           344. Prior to August 22, 2008, Gilead could have strengthened its Viread, Truvada, and  
17 Atripla labels via CBE without prior FDA approval. Under the CBE regulation in effect during that  
18 time, Gilead could have simply submitted a supplemental submission strengthening the labels'  
19 warnings and/or its instructions about the safe administration of the drugs. 21 C.F.R.  
20 § 314.70(c)(6)(iii).

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

26           346. Prior to August 22, 2008, Gilead could have strengthened its labels via CBE without  
27 regard to whether it possessed information that it did not previously provide to the FDA.  
28

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

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

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

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

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

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

1           352. This warning remained inadequate because it failed to instruct doctors to frequently  
2 monitor all patients for sufficiently sensitive markers of kidney function that could detect early signs  
3 of nephrotoxicity and thus prevent or lessen the harm of TDF. As Gilead had known since at least  
4 2002, TDF was injuring patients with no preexisting risk factors for kidney impairment. Gilead’s May  
5 21, 2007 label change perpetuated the false distinction between patients “at risk” for TDF-induced  
6 nephrotoxicity and everyone else. But as subsequent studies would make clear, while there may be  
7 certain factors that increase a patient’s risk of TDF-induced renal damage, *all TDF patients are at*  
8 *risk*—making frequent, careful monitoring of all patients essential for safe use of the drug.

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

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

1           355. The Labarga study also found that no risk factor other than TDF use and old age was  
2 predictive of tubular dysfunction. And because estimates of glomerular function like creatinine  
3 clearance were not predictive of tubular function, the authors explained that unless tubular parameters  
4 like urine glucose and/or phosphorus are routinely monitored, tubular abnormalities may go  
5 undiagnosed. And if tubular damage persists unnoticed, patients may progress to more severe kidney  
6 damage and experience a chronic loss of phosphorus, leading to bone mineral density loss and  
7 premature osteoporosis. The authors recommended that all TDF patients be monitored for signs of  
8 tubular damage so that a switch in therapy could be considered in the event of progressive  
9 deterioration.

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

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

25           358. A 2012 paper, Scherzer, R., *et al.*, “Association of Tenofovir Exposure with Kidney  
26 Disease Risk in HIV Infection,” discussed the authors’ study of 10,841 HIV-infected patients from the  
27 Veterans Health Administration to assess the associations of tenofovir with kidney disease outcomes.  
28 The authors found that each year of tenofovir exposure was associated with a 34% increased risk of

1 proteinuria, 11% increased risk of rapid decline in kidney function, and 33% increased risk of chronic  
2 kidney disease. The results provided “strong evidence that tenofovir may cause clinically significant  
3 toxicity to the kidney that is not reversible.” The study also demonstrated that traditional risk factors  
4 did not worsen the effects of tenofovir. The authors concluded that “while traditional risk factors such  
5 as hypertension, older age, and diabetes may increase the risk for kidney disease, tenofovir is  
6 associated with elevated risk even in patients without preexisting risk factors.”<sup>68</sup>

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

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

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

22 362. These papers, and others in this timeframe that demonstrated a high percentage of TDF  
23 patients with proximal renal tubular dysfunction, stand in stark contrast to Gilead’s Viread clinical  
24 trials and subsequent attempts to maintain that only some TDF patients are at risk. Unlike the Viread  
25

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26 <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 clinical trials, these papers showed significant nephrotoxicity of TDF—with toxicity occurring at a  
2 high frequency and high risks of kidney disease outcomes looming even in patients with normal  
3 glomerular function and without traditional risk factors.

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

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

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

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

1           367. Until the FDA’s review of the Stribild NDA in 2012, there is no evidence that the  
2 agency reviewed any medical literature regarding TDF or other analyses describing how post-approval  
3 renal and bone injury and/or adverse events were occurring at a frequency or severity much greater  
4 than that reported in the registrational clinical trials. The FDA based its approval of Viread on the  
5 preclinical data and clinical trials Gilead submitted in its Viread NDA. After Viread was approved, the  
6 FDA based its approvals of the Truvada, Atripla, and Complera NDAs on Gilead’s data showing the  
7 bioequivalence of those combination drugs to their individual components. The FDA’s approvals of  
8 Truvada, Atripla, and Complera were not based on any new clinical studies or other analyses regarding  
9 safety of TDF. When the FDA conducted a more searching review in connection with the Stribild  
10 NDA, Gilead proposed and the FDA approved stronger monitoring warnings for Stribild, which  
11 included recommending the monitoring of all patients for glomerular and tubular injury.

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

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

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

## 26                           **VI. TOLLING OF THE STATUTE OF LIMITATIONS**

27           371. Gilead misrepresented that TAF was “new” despite knowing that it had discovered the  
28 benefits of TAF even before Viread was approved in 2001.

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

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

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

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

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

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

15          378.    Because of Gilead's misrepresentations and omissions, plaintiffs did not know and had  
16 no reason to suspect that Gilead's wrongdoing was the cause of their injuries and could not have  
17 discovered their claims.

18          379.    No reasonable person taking TDF-based drugs and experiencing kidney and bone  
19 toxicities would have suspected that Gilead purposefully withheld a safer design that would have  
20 ameliorated those very side effects.

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

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

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



1 383. Because of Gilead’s misrepresentations and omissions, neither Plaintiffs nor any  
2 reasonable person would have had reason to conduct an investigation. Once Plaintiffs suspected that  
3 Gilead’s wrongdoing was the cause of their injuries, they were diligent in trying to uncover the facts.

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

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

7 **COUNT I**

8 **STRICT PRODUCTS LIABILITY – DESIGN DEFECT**  
9 **UNDER THE LAWS OF THE STATES OF ALABAMA,<sup>70</sup> FLORIDA, GEORGIA,**  
10 **KENTUCKY, ILLINOIS, NEW YORK, OREGON, TENNESSEE, AND TEXAS**

11 385. Plaintiffs reallege and incorporate the allegations made above as if fully set forth below.

12 386. Plaintiffs assert pre-approval design defect claims.

13 387. Gilead is the manufacturer and seller of the TDF Drugs.

14 388. The TDF Drugs reached Plaintiffs without substantial change to the condition in which  
15 they were sold.

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

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

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

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

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

1           392. The TDF Drugs were not incapable of being made safe at the time of manufacture and  
2 distribution. Gilead knew, before it manufactured and distributed each of the TDF Drugs, that TAF  
3 was more potent than TDF and reduced the risk of kidney and bone toxicity compared to TDF. Gilead  
4 also knew that it could reduce the dose of TDF in Stribild and achieve the same antiviral response with  
5 less kidney and bone toxicity. The TDF Drugs are therefore not unavoidably unsafe.

6           393. The risks of patient harm associated with TDF-induced kidney and bone toxicity were  
7 both known to and foreseeable to Gilead.

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

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

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

26           397. The likelihood and severity of the kidney and bone injuries suffered by patients like  
27 Plaintiffs far outweighed Gilead's burden in taking safety measures to reduce or avoid the harm. Given  
28 the sheer number of people taking the TDF Drugs, including over the long-term, there was a high

1 likelihood that TDF would injure a very large number of patients, and that a significant number of  
2 those injuries would be irreversible. Gilead's burden was small. Gilead had already discovered the  
3 safer TAF method of introducing tenofovir into the body before it sought FDA approval for each of  
4 the TDF Drugs and using the TAF design would have no adverse impact on the utility of the products.

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

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

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

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

17 402. Plaintiffs ingested one or more of the TDF Drugs for an approved purpose and  
18 experienced bone and/or kidney injuries while taking TDF.

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

21 **COUNT II**

22 **STRICT PRODUCTS LIABILITY – FAILURE TO WARN**  
23 **UNDER THE LAWS OF THE STATES OF ALABAMA, FLORIDA, GEORGIA,**  
24 **KENTUCKY, ILLINOIS, NEW YORK, OREGON, AND TENNESSEE**

24 404. Plaintiffs reallege and incorporate the allegations made above as if fully set forth below.

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

28 406. Gilead is the manufacturer and seller of the TDF Drugs.

1           407.    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           408.    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           409.    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          410.    TDF posed a substantial danger to patients' kidneys and bones.

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

13          412.    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          413.    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          414.    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          415.    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          416.    Plaintiffs were injured by using TDF in a reasonably foreseeable way.

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

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

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













1 instruction that a manufacturer exercising reasonable care would have provided regarding the risks, in  
2 light of the likelihood that the product would cause harm to patients' kidneys and bones and the  
3 severity of that harm.

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

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

8 **COUNT VIII**

9 **WASHINGTON PRODUCTS LIABILITY ACT, REV. CODE WASH. § 7.72-010 ET SEQ.**

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

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

14 470. The TDF Drugs are not reasonably safe as designed and not reasonably safe because  
15 adequate warnings or instructions were not provided.

16 471. At the time of manufacture, and before FDA approval, the likelihood that the TDF  
17 Drugs would cause Plaintiffs' harm or similar harms, and the seriousness of those harms, outweighed  
18 the burden on the manufacturer to design a product that would have prevented those harms and the  
19 adverse effect that an alternative design that was practical and feasible would have on the usefulness  
20 of the product.

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

24 473. At the time of manufacture, and before FDA approval, the likelihood that the TDF  
25 Drugs would cause Plaintiffs' harm or similar harms, and the seriousness of those harms, rendered the  
26 warnings or instructions inadequate and Gilead could have provided adequate warnings or instructions.

27 474. After the time of manufacturer, and before FDA approval, Gilead learned or a  
28 reasonably prudent manufacturer should have learned about a danger connected with the TDF Drugs.

1 Gilead's failure to exercise reasonable care to inform consumers about the dangers after it learned  
2 about them rendered the warnings or instructions inadequate.

3 475. The defective and unreasonably dangerous condition of the TDF Drugs proximately  
4 caused Washington Plaintiffs' injuries and damages for which recovery is sought.

5 **COUNT IX**

6 **NEGLIGENCE AND GROSS NEGLIGENCE**  
7 **UNDER THE LAWS OF THE STATES OF ALABAMA, FLORIDA, GEORGIA, ILLINOIS,**  
8 **KENTUCKY, NEW YORK, OHIO, OREGON, PENNSYLVANIA, TENNESSEE AND**  
9 **TEXAS**

10 476. Plaintiffs reallege and incorporate the allegations made above as if fully set forth below.

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

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

16 479. Gilead has a duty to monitor the adverse effects associated with its pharmaceutical  
17 products, including the TDF Drugs.

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

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

22 482. Gilead has a duty to exercise reasonable care when it undertakes affirmative acts for  
23 the protection of others.

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

26 484. Gilead knew that the TDF design it incorporated into the TDF Drugs was associated  
27 with risks of kidney and bone toxicity and caused injuries that resulted from kidney and bone toxicity—  
28 including in patients not otherwise at risk for such injuries. Gilead's knowledge that TDF harmed  
patients' kidneys and bones only grew with each year TDF was on the market. By the time Stribild

1 entered the market, Gilead had more than a decade's worth of knowledge that TDF was toxic to kidneys  
2 and bones.

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

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

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

19 488. Gilead failed to exercise ordinary care in the design, manufacture, and sale of the TDF  
20 Drugs.

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

24 490. Gilead undertook to develop and market a safer TAF-designed product to sell to  
25 wholesalers and other direct purchasers of pharmaceuticals. Gilead recognized that its development  
26 and marketing of safer TAF-designed products was for the protection of patients like Plaintiffs. By  
27 shelving the safer TAF design purely for monetary gain and deceptively representing why it was  
28 abandoning the safer TAF design, Gilead failed to exercise reasonable care in the performance of this

1 undertaking that increased the risk of harm to patients like Plaintiffs. Gilead's failure to exercise  
2 reasonable care resulted in physical harm to Plaintiffs.

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

6 492. Gilead knew or reasonably should have known that the TDF Drugs were dangerous or  
7 likely to be dangerous when used in a reasonably foreseeable manner.

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

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

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

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

27 497. Gilead's failure to adequately warn Plaintiffs and Plaintiffs' doctors about the need to  
28 monitor TDF Drug patients was compounded by Gilead's omissions to doctors during sales detailing

1 and other promotional activities. Gilead's misleading promotion of the TDF Drugs undermined the  
2 efficacy of its existing (inadequate) warnings.

3 498. Plaintiffs were injured by using TDF in a reasonably foreseeable way.

4 499. The lack of adequate warnings was a substantial factor in causing Plaintiffs' injuries.

5 500. Had Gilead adequately warned Plaintiffs' doctors, Plaintiffs' doctors would have read  
6 and heeded such adequate warnings.

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

15 502. Plaintiffs were injured as a direct and proximate result of Gilead's negligence.

16 503. Gilead's conduct constitutes gross negligence and willful misconduct.

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

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

26 506. Gilead knew that its conduct would harm patients like Plaintiffs but Gilead withheld its  
27 safer designs to make more money.

28

**COUNT X**

**FRAUD BY OMISSION  
UNDER THE LAWS OF THE STATES OF ALABAMA, FLORIDA, GEORGIA,  
KENTUCKY, ILLINOIS, NEW YORK, OHIO, OREGON, PENNSYLVANIA, TENNESSEE,  
TEXAS, AND WASHINGTON**

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

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

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

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510. Gilead has a duty to monitor the adverse effects associated with pharmaceutical products, including Stribild.

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14  
511. Gilead has a duty to exercise reasonable care when it undertakes affirmative acts for the protection of others.

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512. Gilead owes these duties to Plaintiffs because it was foreseeable to Gilead that patients like Plaintiffs would ingest and consequently be endangered by the TDF Drugs.

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513. Gilead also owed a duty to speak because it was in possession of information about TDF and TAF that was not readily available to Plaintiffs and Plaintiffs' physicians, made partial representations about TDF and TAF to Plaintiffs and Plaintiffs' physicians while suppressing material facts, and actively concealed material information about TDF and TAF from Plaintiffs and Plaintiffs' physicians, including that: (a) Gilead knew about the safer TAF design for delivering tenofovir into the body prior to seeking and receiving FDA approval for the TDF Drugs but designed the TDF Drugs to include TDF anyway, even though it knew that TDF posed a significant and increased safety risk to patients' kidneys and bones; (b) the toxicity associated with tenofovir was not unavoidable; (c) the real reason Gilead abandoned its TAF design in 2004 was not because TAF could not be sufficiently differentiated from TDF; (d) Gilead had already determined that it should reduce the dose of tenofovir prodrug when combining it with cobicistat at the time it was developing Stribild but Gilead did not reduce the TDF dose in Stribild as it did with Genvoya; (e) Gilead purposefully withheld the TAF

1 design, which it knew was safer than TDF, solely to make more money; and (f) Gilead knew to warn  
2 doctors to frequently monitor all patients for the adverse effects of TDF toxicity using more than one  
3 insufficient marker of kidney function even though it did not do so in its warnings to doctors in the  
4 U.S.

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

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

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

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

23 518. Plaintiffs and their doctors justifiably relied on Gilead's product labeling and other  
24 representations.

25 519. Had Gilead not omitted this information about the safe use of its drugs from the  
26 prescriber and patient labeling, doctors would have performed, and patients would have insisted upon,  
27 frequent and adequate monitoring for the kidney and bone problems that have injured Plaintiffs. But  
28 for Gilead's omissions, Plaintiffs would have consumed the TDF Drugs in a safer way.





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

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

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

8           534. Gilead had reason to know that Plaintiffs and their doctors would rely on Gilead's skill  
9 or judgment.

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

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

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

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

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

26           539. On January 23, 2020, Plaintiffs sent a letter to Gilead via certified mail giving official  
27 notice of Gilead's breach of the implied warranty of merchantability under the laws of Alabama,  
28 Illinois, New York, Oregon, Tennessee and Texas. Plaintiffs' notice letter is attached as Exhibit A.

**COUNT XII**

**VIOLATION OF STATE CONSUMER PROTECTION LAWS**

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

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

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

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

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

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

546. Gilead also intentionally suppressed, concealed, and omitted material facts about the risks and benefits of the TDF Drugs in its promotional, marketing, and/or labeling communications to Plaintiffs and Plaintiffs' doctors, including, but not limited to: (1) the true frequency and severity of the risks of TDF to kidneys and bones; (2) that all TDF patients should be carefully monitored for adverse kidney and bone effects on a frequent schedule in light of the true risks of TDF; (3) that Gilead had already developed the safer TAF design for delivering tenofovir into the body but nevertheless designed the TDF Drugs to contain TDF, and withheld the safer SAF design, in order to avoid admitting the toxicity of TDF, maximize profits on its TDF-based products, and extend its ability to profit on its HIV franchise for years to come; and (4) Gilead knew that the tenofovir prodrug dose should be reduced when combined in a fixed dose combination pill with cobicistat, but did not reduce the TDF dose in Stribild.

547. Gilead had a duty to disclose the omitted material facts about TDF and TAF because it: (a) was in possession of information about TDF and TAF that was not readily available to Plaintiffs

1 and Plaintiffs’ physicians; (b) made partial representations about TDF and TAF to Plaintiffs and  
2 Plaintiffs’ physicians while suppressing material facts; and (c) actively concealed material information  
3 about TDF and TAF from Plaintiffs and Plaintiffs’ physicians.

4 548. Gilead’s conduct significantly impacted the public as actual or potential consumers of  
5 Gilead’s TDF Drugs. Hundreds of thousands of consumers in the U.S. have ingested one or more of  
6 the TDF Drugs and Gilead has directed its misleading marketing and promotional messages to the  
7 market generally. Consumers like Plaintiffs are at an informational disadvantage and lack bargaining  
8 power relative to Gilead. Gilead’s conduct has previously impacted other consumers and has  
9 significant potential to do so in the future.

10 549. Gilead’s conduct was likely to mislead and did mislead reasonable consumers and  
11 members of the public.

12 550. Gilead’s omissions were material and affected Plaintiffs’ and Plaintiffs’ doctors’  
13 conduct.

14 551. Gilead intended that others rely on its deceptive and misleading omissions regarding its  
15 TDF Drugs.

16 552. Plaintiffs and their doctors reasonably relied on Gilead’s deceptive and misleading  
17 omissions regarding its TDF Drugs.

18 553. Plaintiffs’ doctors prescribed, and Plaintiffs ingested, one or more of the TDF Drugs in  
19 reliance on Gilead’s unconscionable, false, misleading and/or deceptive acts and omissions.

20 554. Plaintiffs were directly and proximately injured as a result of Gilead’s deceptive  
21 conduct. But for Gilead’s unfair and/or unconscionable conduct, Plaintiffs would have ingested a safer  
22 tenofovir-prodrug product, thus preventing or reducing Plaintiffs’ injuries and monetary expenses in  
23 connection with taking TDF. But for Gilead’s omissions, Plaintiffs would have ingested the TDF Drugs  
24 in a safer way—through more careful, frequent monitoring and/or by not taking Stribild (TDF in  
25 combination with cobicistat)—thus preventing or reducing Plaintiffs’ injuries and monetary expenses  
26 in connection therewith.

1           555. Plaintiffs suffered ascertainable losses as a result of Gilead’s violations of the state  
2 consumer protection statutes alleged herein. Plaintiffs will prove the full extent and amount of their  
3 damages at trial.

4           556. The conduct alleged herein violates the state consumer protection statutes as further  
5 alleged below.

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

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

13           558. On January 23, 2020, Alabama Plaintiffs made a written demand for relief in  
14 satisfaction of the Act and will amend this Complaint to add claims under the Act once the required  
15 notice period has elapsed.

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

18                   **b.       Illinois: 815 ILCS 505/1 et seq. and 815 ILCS 510 et seq.**

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

1           561. Gilead concealed material facts with the intent that others rely on the concealment of  
2 material facts.

3           562. Illinois Plaintiffs suffered actual pecuniary losses proximately caused by Gilead's  
4 violations of the Illinois Acts.

5           563. Illinois Plaintiffs seeks actual damages, punitive damages, reasonable attorneys' fees,  
6 and costs.

7                   **c.       Indiana: Ind. Code § 24-5-0.5-1 et seq.**

8           564. Gilead has engaged in the following conduct in violation of Ind. Code § 24-5-0.5-1 *et*  
9 *seq.*: 1) committing unfair or deceptive acts, omissions, or practices in connection with a consumer  
10 transaction in violation of Ind. Code § 24-5-0.5-3(a); 2) deceptively representing, through partial  
11 representations and omissions, that the TDF Drugs have performance, characteristics, or benefits they  
12 do not have which the supplier knows or reasonably knows it does not have in violation of Ind. Code  
13 § 24-5-0.5-3(b)(1); and 3) deceptively representing, through partial representations and omissions, that  
14 the TDF Drugs are of a particular standard or quality that it is not and if the supplier knows or should  
15 reasonably know that they are not in violation of Ind. Code § 24-5-0.5-3(b)(2).

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

18           566. Indiana Plaintiffs intend to seek actual damages, punitive damages for Gilead's willful  
19 deceptive acts, and reasonable attorneys' fees. On January 23, 2020, Indiana Plaintiffs made a written  
20 demand for relief in satisfaction of the Act and will amend this Complaint to add damage claims under  
21 the Act once the required notice period has elapsed. This paragraph is included for notice purposes  
22 only and is not intended to assert a claim under the Act for damages at this time.

23                   **d.       Kentucky: Ky. Rev. Stat. Ann. § 367.110 et seq.**

24           567. Gilead has engaged in unfair, false, misleading, or deceptive acts or practices in the  
25 conduct of trade or commerce in violation of Ky. Rev. Stat. Ann. § 367.170.

26           568. Kentucky Plaintiffs have suffered ascertainable losses in the form of lost money or  
27 property as a result of Gilead's violations of Ky. Rev. Stat. Ann. § 367.110 *et seq.*

28           569. Kentucky Plaintiffs seek actual damages, punitive damages, attorneys' fees, and costs.

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

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

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

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

10                  573.    New Jersey Plaintiffs seek damages, treble damages, and reasonable attorneys’ fees and  
11 costs of suit.

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

13                  574.    Gilead’s conduct constitutes deceptive acts or practices in the conduct of any business,  
14 trade or commerce in violation of N.Y. Gen. Bus. Law § 349.

15                  575.    Gilead’s conduct was directed at consumers.

16                  576.    Gilead’s conduct significantly impacted the public as actual or potential consumers of  
17 Gilead’s TDF Drugs. Millions of consumers have ingested one or more of the TDF Drugs and Gilead  
18 has directed its misleading marketing and promotional messages to the market generally. Consumers  
19 like Plaintiffs are at an informational disadvantage and lack bargaining power relative to Gilead.  
20 Gilead’s conduct has previously impacted other consumers and has significant potential to do so in the  
21 future.

22                  577.    New York Plaintiffs were injured by reason of Gilead’s violations of N.Y. Gen. Bus.  
23 Law § 349.

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

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

27                  579.    Gilead’s conduct constitutes unfair or deceptive acts or practices in connection with a  
28 consumer transaction in violation of Ohio Rev. Code § 1345.02.

1           580. Gilead deceptively represented, through partial representations and omissions, that the  
2 TDF Drugs have characteristics or benefits that they do not have in violation of Ohio Rev. Code  
3 § 1345.02(B)(1).

4           581. Gilead deceptively represented, though partial representations and omissions, that the  
5 TDF Drugs are of a particular standard or quality that they are not in violation of Ohio Rev. Code  
6 § 1345.02(B)(2).

7           582. Ohio Plaintiffs suffered damages as a result of Gilead's violations of Ohio Rev. Code  
8 § 1345.02.

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

11                   **h. Oregon: Or. Rev. Stat. Ann. § 646.605 et seq.**

12           584. Gilead deceptively represented, though partial representations and omissions, that the  
13 TDF Drugs have characteristics or benefits that they do not have in violation of Or. Rev. Stat. Ann.  
14 § 646.608(1)(e).

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

18           586. Gilead engaged in unfair or deceptive conduct in violation of Or. Rev. Stat. Ann.  
19 § 646.608(1)(u).

20           587. Oregon Plaintiffs suffered injuries and damages in the form of an ascertainable loss of  
21 money or property as a result of Gilead's violations of Or. Rev. Stat. Ann. § 646.608.

22           588. Oregon Plaintiffs seek the greater of actual damages or \$200, punitive damages,  
23 reasonable attorneys' fees, and costs.

24                   **i. Texas: Tex. Bus. & Com. Code Ann. § 17.41 et seq.**

25           589. Gilead's conduct constitutes false, misleading, or deceptive acts or practices in the  
26 conduct of trade or commerce in violation of Tex. Bus. & Com. Code Ann. § 17.46(a).







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