Supplementary Appendix

This appendix has been provided by the authors to give readers additional information about their work.

Supplement to: Rough K, Seage GR III, Williams PL, et al. Birth outcomes for pregnant women with HIV using tenofovir–emtricitabine. N Engl J Med 2018;378:1593-603. DOI: 10.1056/NEJMoa1701666

Supplemental Materials:

Birth outcomes for pregnant women using tenofovir/emtricitabine in the US

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Supplemental Figure S1. Flowchart of study pooling and inclusion criteria¹



¹ Mothers may not be unique. Some women had multiple pregnancies under study observation. The unit of analysis in this figure is mother-infant

Supplemental Table S1. Full maternal characteristics¹ by initial antiretroviral regimen during pregnancy

	Initial regimen during pregnancy					
	TDF/F7	rC/LPV/r	TDF/FTC/ATV/r		ZDV/3TC/LPV/r	
	n = 128		n = 539		n = 954	
	n	%	n	%	n	%
Year of delivery		/0		/0	п	/0
2002-2004	0	0.0	0	0.0	29	3.0
2005-2008	38	29.7	92	17.1	260	27.3
2009-2012	76	59.4	290	53.8	554	58.1
2009-2012	14	10.9	157	29.1	111	11.6
A ge	14	10.7	137	27.1	111	11.0
24 years or less	50	391	136	25.2	355	37.2
25 to 34 years	67	52.3	293	54.4	473	49.6
35 years or more	11	8.6	109	20.2	125	13.1
Missing	0	0.0	105	0.2	125	01
Education	Ū	0.0	1	0.2	1	0.1
Less than high school	34	26.6	188	34 9	331	34 7
High school diploma	61	20.0 47 7	240	44 5	427	44.8
College or more	33	25.8	109	20.2	194	20.3
Missing	0	0.0	2	04	2	02
Race/ethnicity	v	0.0	2	0.7	2	0.2
Non-Hispanic White	15	117	44	82	68	71
Non-Hispanic Black	81	63.3	365	67.7	611	64.0
Hispanic	30	23.4	120	22.3	258	27.0
Other	1	0.8	9	17	11	1.2
Missing	1	0.0	1	0.2	6	0.6
First CD4 in pregnancy	1	0.0	1	0.2	Ū	0.0
$I ass than 250 cells/mm^3$	20	22.4	100	18.6	104	20.3
$250 \text{ to } 500 \text{ cells/mm}^3$	30 47	25.4	205	28.0	281	20.5
250 to 500 certs/iiiii More than 500 cells/mm ³	47	267	205	58.0 41.7	265	29.9 20 2
Minering	4/	20./ 21	223	41./	303	28.2 15
Missing	4	5.1	9	1./	14	1.5
L age then 400 appies/mI	61	177	277	514	201	20.5
Less than 400 copies/mL	22	4/./	127	51.4 25.4	261	29.5
400 to 10,000 copies/mL	22	25.8	137	23.4	205	27.8 22.0
Minering	33	23.8	122	22.0	505	52.0 0.7
Missing	1	0.8	3	0.0	/	0.7
Defense mersenen en	107	02 (470	07.2	(72	70.5
Before pregnancy	107	85.0	4/0	87.2	6/3 279	/0.5
During pregnancy	21	16.4	69	12.8	278	29.1
Missing	0	0.0	0	0.0	3	0.3
I iming of regimen initiation	50	45.2	265	40.2	111	11.6
Before pregnancy	58	45.3	265	49.2	111	11.6
Trimester 1	18	14.1	82	15.2	115	12.1
1 rimester 2 or 3	52	40.6	192	33.6	128	/0.3
Alcohol use during pregnancy	25	10.5	02	17.1	102	10.1
Yes	25	19.5	92	17.1	182	19.1

	Initial regimen during pregnancy					
	TDF/FTC/LPV/r		TDF/FTC/ATV/r		ZDV/31	C/LPV/r
	n =	128	n = 539		n = 954	
	n	%	n	%	n	%
No	91	71.1	432	80.1	705	73.9
Missing	12	9.4	15	2.8	67	7.0
Tobacco use during pregnancy						
Yes	30	23.4	105	19.5	182	19.1
No	77	60.2	387	71.8	628	65.8
Missing	21	16.4	47	8.7	144	15.1
Illicit drug use during pregnancy						
Yes	21	16.4	61	11.3	115	12.1
No	85	66.4	427	79.2	687	72.0
Missing	22	17.2	51	9.5	152	15.9
Pregestational diabetes						
Yes	1	0.8	10	1.9	12	1.3
No	126	98.4	527	97.8	939	98.4
Missing	1	0.8	2	0.4	3	0.3
Hepatitis B or C during pregnancy						
Yes	20	15.6	71	13.2	99	10.4
No	108	84.4	468	86.8	855	89.6
Sexually transmitted infection ²						
during pregnancy						
Yes	36	28.1	208	38.6	373	39.1
No	78	60.9	297	55.1	513	53.8
Missing	14	10.9	34	6.3	68	7.1

Abbreviations: TDF, tenofovir disoproxil fumarate; FTC, emtricitabine; LPV/r, ritonavir-boosted lopinavir; ATV/r, ritonavir-boosted atazanavir;

ZDV, zidovudine; 3TC, lamivudine ¹ Mothers may not be unique. Some women had multiple pregnancies under study observation. The unit of analysis is the mother-infant pair. Women are classified according to the initial antiretroviral therapy (ART) regimen received during pregnancy. ²Sexually transmitted infections include syphilis, gonorrhea, chlamydia, genital herpes, or "other" sexually transmitted infections noted in the

medical chart.

Supplemental Table S2. Maternal characteristics¹ by initial antiretroviral regimen during

TDF/FTC/Any PI $n = 960$ ZDV/3TC/Any PI $n = 1, 593$ n Birth year 2002-200400.01388.7	
n = 960 $n = 1, 593$ $n = 0.00$ $n = 1, 593$ $n = 0.000$ $n = 0.000$ Birth year $0 = 0.000$ $2002-2004$ $0 = 0.000$ $138 = 8.7$	
n % n % Birth year 0 0.0 138 8.7	
Birth year 2002-2004 0 0.0 138 8.7	
2002-2004 0 0.0 138 8.7	
2005-2008 178 18.5 610 38.3	
2009-2012 514 53.5 693 43.5	
2012-2016 268 27.9 152 9.5	
Age	
24 years or less 254 26.5 592 37.2	
25 to 34 years 533 55.5 785 49.3	
35 years or more 170 17.7 214 13.4	
Missing 3 0.3 2 0.1	
Education	
Less than HS 313 32.6 570 35.8	
HS diploma 434 45.2 690 43.3	
College or more 209 21.8 327 20.5	
Missing 4 0.4 6 0.4	
Race/ethnicity	
Non-Hispanic White 81 8.4 113 7.1	
Non-Hispanic Black 629 65.5 966 60.6	
Hispanic 233 24.3 484 30.4	
Other 15 1.6 19 1.2	
Missing 2 0.2 11 0.7	
First CD4 in pregnancy	
Less than 250 cells/mm ³ 187 19.5 293 18.4	
250 to 500 cells/mm ³ 374 39.0 676 42.4	
More than 500 cells/mm ³ 379 39.5 591 37.1	
Missing 20 2.1 33 2.1	
First viral RNA in pregnancy	
Less than 400 copies/mL 503 52.4 469 29.4	
400 to 10,000 copies/mL 224 23.3 601 37.7	
More than 10,000 copies/mL 223 23.2 500 31.4	
Missing 10 1.0 23 1.4	
Diagnosed before pregnancy	
Yes 834 86.9 1,112 69.8	
No 124 12.9 478 30.0	
Missing 2 0.2 3 0.2	
Timing of regimen initiation	
Before pregnancy 490 51.0 240 15.1	
Trimester 1 135 14.1 177 11.1	
Trimester 2/3 335 34.9 1,176 73.8	
Alcohol use	
Yes 156 16.3 298 18.7	
No 767 79.9 1,166 73.2	

pregnancy: TDF/FTC/Any PI versus ZDV/3TC/Any PI

	Initial regimen during pregnancy					
	TDF/FTC/Any PI ZDV/3TC/Any PI					
	n =	960	n = 1,	593		
	n	%	n	%		
Missing	37	3.9	129	8.1		
Tobacco use						
Yes	188	19.6	295	18.5		
No	676	70.4	997	62.6		
Missing	96	10.0	301	18.9		
Illicit drug use						
Yes	115	12.0	191	12.0		
No	741	77.2	1,079	67.7		
Missing	104	10.8	323	20.3		
Pregestational diabetes						
Yes	15	1.6	24	1.5		
No	939	97.8	1,564	98.2		
Missing	6	0.6	5	0.3		
Hepatitis						
Yes	135	14.1	153	9.6		
No	825	85.9	1,440	90.4		
Sexually transmitted infection ²						
during pregnancy						
Yes	338	35.2	586	36.8		
No	553	57.6	849	53.3		
Missing	69	7.2	158	9.9		
Protease inhibitors						
+ LPV/r	128	13.3	954	59.9		
+ ATV/r	539	56.1	47	3.0		
+ DRV/r	164	17.1	48	3.0		
+ NFV	13	1.4	497	31.2		
+ Other PI	116	12.1	47	3.0		

Abbreviations: TDF, tenofovir disoproxil fumarate; FTC, emtricitabine; PI, protease inhibitor; ZDV, zidovudine; 3TC, lamivudine; LPV, lopinavir; ATV, atazanavir; DRV, darunavir; NFV, nelfinavir ¹Mothers may not be unique. Some women had multiple pregnancies under study observation. ²Sexually transmitted infections include syphilis, gonorrhea, chlamydia, genital herpes, or "other" sexually transmitted infections noted in the medical chart.

Supplemental Table S3. Risk of infant outcomes by initial antiretroviral regimen during

		Initial antiretroviral regimen during pregnancy						
		TDF/FTC/Any PI			ZDV/3TC/Any PI			
Outcome	n	Risk (%)	95% CI	n	Risk (%)	95% CI		
Preterm birth ¹	170	17.9	(15.4, 20.3)	311	19.7	(17.8, 21.7)		
Very preterm birth ²	47	4.9	(3.6, 6.3)	67	4.3	(3.3, 5.3)		
Low birth weight ³	167	17.7	(15.2, 20.1)	275	17.8	(15.9, 19.7)		
Very low birth weight ⁴	17	1.8	(1.0, 2.6)	32	2.1	(1.4, 2.8)		
Adverse outcome ⁵	237	24.9	(22.2, 27.7)	426	27.3	(25.1, 29.5)		
Severe adverse outome ⁶	51	5.4	(3.9, 6.8)	83	5.3	(4.2, 6.5)		

pregnancy: TDF/FTC/Any PI versus ZDV/3TC/Any PI

Abbreviations: TDF, tenofovir disoproxil fumarate; FTC, emtricitabine; PI, protease inhibitor; ZDV, zidovudine; 3TC, lamivudine; CI, confidence interval

¹Preterm birth defined as <37 weeks gestational age

²Very preterm birth defined as <34 weeks gestational age ³Low birth weight defined as <2,500g

⁴Very low birth weight defined as <1,500g ⁵Adverse outcome defined as preterm birth, low birth weight, fetal loss, or neonatal mortality (within 14 days after delivery)

Serious adverse outcome defined as very preterm birth, very low birth weight, fetal loss, or neonatal mortality (within 14 days after delivery)

Supplemental Table S4. Risk ratios for infant outcomes: TDF/FTC/Any PI versus

ZDV/3TC/Any PI

	Crude		А	djusted ¹
	RR	95% CI	RR	95% CI
Preterm birth ²	0.90	(0.76, 1.07)	0.77	(0.62, 0.96)
Very preterm birth ³	1.16	(0.81, 1.67)	0.99	(0.66, 1.48)
Low birth weight ⁴	0.86	(0.68, 1.09)	0.90	(0.73, 1.11)
Very low birth weight ⁵	0.87	(0.49, 1.56)	0.69	(0.36, 1.31)
Adverse outcome ⁶	0.87	(0.72, 1.05)	0.84	(0.71, 1.00)
Severe adverse outcome ⁷	1.01	(0.72, 1.41)	0.90	(0.62, 1.31)

Abbreviations: TDF, tenofovir disoproxil fumarate; FTC, emtricitabine; PI, protease inhibitor; ZDV, zidovudine; 3TC, lamivudine; RR, risk ratio; CI, confidence interval

¹Modified Poisson models adjusted for race/ethnicity, smoking, diabetes, sexually transmitted infection, and timing of antiretroviral therapy initiation

²Preterm birth defined as <37 weeks gestational age

³Very preterm birth defined as <34 weeks gestational age ⁴Low birth weight defined as <2,500g

⁵Very low birth weight defined as <1,500g ⁶Adverse outcome defined as preterm birth, low birth weight, fetal loss, or neonatal mortality (within 14 days after delivery)

⁷Serious adverse outcome defined as very preterm birth, very low birth weight, fetal loss, or neonatal mortality (within 14 days after delivery)

Supplemental Figure S2. Subgroup analyses for comparison of initial antiretroviral regimen during pregnancy and risk of any adverse outcome¹: Risk ratios and corresponding 95% confidence intervals



Abbreviations: TDF, tenofovir disoproxil fumarate; FTC, emtricitabine; LPV/r, ritonavir-boosted lopinavir; ZDV, zidovudine; 3TC, lamivudine; ATV/r, ritonavir-boosted atazanavir

Note: "Adjusted" risk ratios obtained from log-binomial models adjusted for race/ethnicity, smoking, diabetes, sexually transmitted infection, and timing of antiretroviral therapy initiation

Adverse outcome defined as preterm birth, low birth weight, fetal loss, or neonatal mortality (within 14 days after delivery)

Supplemental Figure S3. Subgroup analyses for comparison of initial antiretroviral regimen during pregnancy and risk of very preterm birth¹: Risk ratios and corresponding 95% confidence intervals



Abbreviations: TDF, tenofovir disoproxil fumarate; FTC, emtricitabine; LPV/r, ritonavir-boosted lopinavir; ZDV, zidovudine; 3TC, lamivudine; ATV/r, ritonavir-boosted atazanavir

¹Very preterm birth defined as <34 weeks gestational age

Supplemental Figure S4. Subgroup analyses for comparison of initial antiretroviral regimen during pregnancy and risk of very low birth weight¹: Risk ratios and corresponding 95% confidence intervals



Abbreviations: TDF, tenofovir disoproxil fumarate; FTC, emtricitabine; LPV/r, ritonavir-boosted lopanivir; ZDV, zidovudine; 3TC, lamivudine; ATV/r, ritonavir-boosted atazanavir

¹Very low birth weight defined as <1,500g

Supplemental Figure S5. Subgroup analyses for comparison of initial antiretroviral regimen during pregnancy and risk of serious adverse outcome¹: Risk ratios and corresponding 95% confidence intervals



Abbreviations: TDF, tenofovir disoproxil fumarate; FTC, emtricitabine; LPV/r, ritonavir-boosted lopinavir; ZDV, zidovudine; 3TC, lamivudine; ATV/r, ritonavir-boosted atazanavir

¹Serious adverse outcome defined as very preterm birth, very low birth weight, fetal loss, or neonatal mortality (within 14 days after delivery)

Supplemental Table S5. Regimens switched to after initial regimen of TDF/FTC/LPV/r

	n	%
TDF/FTC/LPV/r to TDF/FTC/ATV/r	2	3.3
TDF/FTC/LPV/r to TDF/FTC + other drug(s)	17	27.9
TDF/FTC/LPV/r to ZDV/3TC/LPV/r	20	32.8
TDF/FTC/LPV/r to ZDV/3TC + other drug(s)	3	4.9
TDF/FTC/LPV/r to other cART regimen	12	19.7
TDF/FTC/LPV/r to mono- or dual-therapy	7	11.5

Abbreviations: TDF, tenofovir disoproxil fumarate; FTC, emtricitabine; LPV/r, ritonavir-boosted lopinavir; ATV/r, ritonavir-boosted atazanavir; ZDV, zidovudine; 3TC, lamivudine; cART, combination antiretroviral therapy

Supplemental Table S6. Regimens switched to after initial regimen of TDF/FTC/ATV/r

	n	%
TDF/FTC/ATV/r to TDF/FTC/LPV/r	1	0.6
TDF/FTC/ATV/r to TDF/FTC + other drug(s)	104	60.8
TDF/FTC/ATV/r to ZDV/3TC/LPV/r	14	8.2
TDF/FTC/ATV/r to ZDV/3TC + other drug(s)	12	7.0
TDF/FTC/ATV/r to other cART regimen	36	21.1
TDF/FTC/ATV/r to mono- or dual-therapy	4	2.3

Abbreviations: TDF, tenofovir disoproxil fumarate; FTC, emtricitabine; LPV/r, ritonavir-boosted lopinavir; ATV/r, ritonavir-boosted atazanavir; ZDV, zidovudine; 3TC, lamivudine; cART, combination antiretroviral therapy

Supplemental Table S7. Regimens switched to after initial regimen of ZDV/3TC/LPV/r

	n	%
ZDV/3TC/LPV/r to TDF/FTC/LPV/r	34	10.0
ZDV/3TC/LPV/r to TDF/FTC/ATV/r	45	13.2
ZDV/3TC/LPV/r to TDF/FTC + other drug(s)	63	18.5
ZDV/3TC/LPV/r to ZDV/3TC + other drug(s)	142	41.8
ZDV/3TC/LPV/r to other cART regimen	27	7.9
ZDV/3TC/LPV/r to mono- or dual-therapy	29	8.5

Abbreviations: TDF, tenofovir disoproxil fumarate; FTC, emtricitabine; LPV/r, ritonavir-boosted lopinavir; ATV/r, ritonavir-boosted atazanavir; ZDV, zidovudine; 3TC, lamivudine; cART, combination antiretroviral therapy

Quantification of potential selection bias from loss to follow-up

Background:

There were 160 women who enrolled in either SMARTT or P1025 during their pregnancy who were lost to follow-up before delivering. Their birth outcome information is unknown. The exposure classification for many of these women is also unclear because the estimated date of conception was not recorded, making it difficult to determine the first regimen taken during pregnancy.

Methods:

If the loss to follow-up in our study is related to both antiretroviral regimens received and the pregnancy outcome, there is a potential for selection bias. We used methods described by Greenland [1] and Lash, Fink, and Fox [2] to quantify the potential impact of selection bias caused by the 160 women lost to follow-up. This sensitivity analysis was modeled after one by Huybrechts et al [3] that examined the potential impact of selective terminations on their study of first-trimester SSRI exposure and risk of cardiac malformations.

Below, we present the sensitivity analysis for the comparison of TDF/FTC/LPV/r to ZDV/3TC/LPV/r for the outcome of any adverse event.

To perform the sensitivity analyses, we examine how a range of plausible values for selection probabilities (i.e., the probability of not being lost to follow-up) would impact our estimates.

Observed			Corrected		
	Any adverse	No adverse		Any adverse	No adverse
	event	event		event	event
TDF/FTC/LPV/r	А	В	TDF/FTC/LPV/r	$A_{correct} = A/S_{11}$	$B_{correct} = B/S_{10}$
ZDV/3TC/LPV/r	C	D	ZDV/3TC/LPV/r	$C_{correct} = C/S_{01}$	$D_{correct} = D/S_{00}$

A is the observed number of deliveries with adverse events among women receiving TDF/FTC/LPV/r. B is the observed number of deliveries without adverse events among women receiving TDF/FTC/LPV/r. C is the observed number of deliveries with adverse events among women receiving ZDV/3TC/LPV/r. D is the observed number of deliveries without adverse events among women receiving ZDV/3TC/LPV/r.

 S_{00} is the probability of not being lost to follow-up for women in the ZDV/3TC/LPV/r exposure group who did not have an adverse event.

 S_{01} is the probability of not being lost to follow-up for women in the ZDV/3TC/LPV/r exposure group who had an adverse event.

 S_{10} is the probability of not being lost to follow-up for women in the TDF/FTC/LPV/r exposure group who did not have an adverse event.

 S_{11} is the probability of not being lost to follow-up for women in the TDF/FTC/LPV/r exposure group who had an adverse event.

A_{correct} is the corrected number of deliveries with adverse events among women receiving TDF/FTC/LPV/r.

 B_{correct} is the corrected number of deliveries without adverse events among women receiving TDF/FTC/LPV/r.

 $C_{correct}$ is the corrected number of deliveries with adverse events among women receiving ZDV/3TC/LPV/r.

 D_{correct} is the corrected number of deliveries without adverse events among women receiving ZDV/3TC/LPV/r.

 RR_{obs} is the observed risk ratio. $RR_{correct}$ is the corrected risk ratio.

 $\begin{aligned} RR_{obs} &= \left[A/(A+B)\right] / \left[C/(C+D)\right] \\ RR_{correct} &= \left[\left(A_{correct} / (A_{correct} + B_{correct})\right] / \left[C_{correct} / (C_{correct} + D_{correct})\right] \end{aligned}$

Selection probabilities:

Below is the observed contingency table for the comparison of TDF/FTC/LPV/r to ZDV/3TC/LPV/r for the outcome of any adverse event:

Observed

	Adverse event	No adverse event
TDF/FTC/LPV/r	A = 36	B = 92
ZDV/3TC/LPV/r	C = 256	D = 684

Because there were substantially fewer women in the TDF/FTC/LPV/r group compared to the ZDV/3TC/LPV/r group, it has greater potential to be influenced by the 160 women who were lost to follow-up. Therefore, to be more conservative in our conclusions about the sensitivity of our findings to selection bias, we focused the impact of differential loss to follow-up on the TDF/FTC/LPV/r exposure group.

In our study, we found that 3% of pregnancies were lost to follow-up before delivery. For these sensitivity analyses, we assumed that this average probability of being lost to follow up applied to women with ZDV/3TC/LPV/r exposure, whether or not they had an adverse event ($S_{00} = 0.97$ [21.2 additional pregnancies]; $S_{01} = 0.97$ [7.9 additional pregnancies]).

The S_{10} and S_{11} were tested across a range of values, taking care to ensure that the number of additional cases implied by the selection probabilities never exceeded the 160 participants actually lost to follow-up. The scenarios examined are summarized in the table below:

TDF/FTC/LPV/r		ZDV/3TC/LPV/r	
No adverse event (S ₁₀)	Adverse event (S ₁₁)	No adverse event (S_{00})	Adverse event (S ₀₁)
70% - 90%	$\begin{array}{c} S_{10} + 10\% \\ S_{10} + 5\% \\ S_{10} + 0\% \\ S_{10} - 5\% \\ S_{10} - 10\% \end{array}$	97%	97%

Results:

The figure below displays the corrected risk ratios for the scenarios described above. Even under the most extreme scenarios, the risk ratio never exceeds 1.2 or drops below 0.9.



It should be noted that some of the selection probabilities examined are improbably extreme. For instance, the scenario where $S_{10} = 70\%$ and $S_{11} = 60\%$ implies that approximately 63 of the 160 women lost to follow-up (40%) would have been in the TDF/FTC/LPV/r exposure group, despite a 2.8% prevalence of TDF/FTC/LPV/r in the primary analysis.

While the results displayed here pertain to the comparison of TDF/FTC/LPV/r and ZDV/3TC/LPV/r for the outcome of adverse events, sensitivity analyses for other outcomes and exposure comparisons yielded similar results.

Conclusions:

We find that the exclusion of the 160 women lost to follow-up prior to delivery in our primary analyses is unlikely to result in large selection bias in either direction. Even under rather extreme scenarios, our findings appear to be robust to bias from this source.

Works cited:

Greenland S. Basic methods for sensitivity analysis of bias. *Int J Epidemiol*. 1996;25(6):1107-16.
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