Appendix 1. Adjusted Analysis of Imputed Characteristics Associated With a Cesarean Delivery Versus a Vaginal Delivery Among HIV-Infected Women in the PACTG/IMPAACT Cohort (N=6,444)

Characteristic	Reference category	Category	Adjusted odds ratio, AOR (95% Cl) ¹
Guideline period	1998-1999	2000-2008 2009-2013	1.67 (1.43-1.95) 1.95 (1.61-2.36)
Age at delivery (years)	<25	25-30 >30	0.93 (0.81-1.07) 1.16 (1.01-1.34)
Timing of HIV diagnosis	Prior to pregnancy	During pregnancy	1.01 (0.88-1.16)
First trimester of ARV use	First	No ARV use Second Third	0.40 (0.27-0.59) 0.97 (0.84-1.11) 0.89 (0.72-1.09)
First CD4 cell count in pregnancy (cells/mm ³)	≥500	<200 200-<350 350-<500	1.15 (0.96-1.39) 0.95 (0.81-1.10) 0.94 (0.81-1.10)
Last HIV viral load before delivery (copies/ml)	<500	500-<1,000 1,000-<10,000 ≥10,000	1.52 (1.17-1.97) 1.84 (1.53-2.21) 1.99 (1.61-2.45)
Ruptured membranes in labor	No	Yes	0.14 (0.12-0.15)
Gestational age at delivery (weeks)	<32	32-<37 37-<40 ≥40	2.21 (1.59-3.05) 1.83 (1.36-2.48) 1.11 (0.80-1.53)

 1 Logistic regression models were run for each imputation (N=30). The adjusted odds ratios and confidence intervals shown are the combined estimates from all of the regression models.

Venkatesh KK, Morrison L, Livingston EG, Stek A, Read JS, Shapiro DE, et al. Changing patterns and predictors of mode of delivery among human immunodeficiency virus--infected pregnant women in the United States. Obstet Gynecol 2018; 131.

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Appendix 2. Adjusted Analysis of Imputed Characteristics Associated With an HIV-Associated Cesarean Delivery Versus a Non-HIV-Associated Cesarean Delivery Among HIV-Infected Women in the PACTG/IMPAACT Cohort (N=2,886)

	Reference	0-1	Adjusted odds ratio, AOR (95%
Characteristic	category	Category	CI)'
Guideline period	1998-1999	2000-2008	1.83 (1.44-2.32)
		2009-2013	0.65 (0.48-0.88)
Age at delivery (years)	<25	25-30	0.82 (0.66-1.01)
		>30	0.64 (0.52-0.79)
Timing of HIV diagnosis	Prior to pregnancy	During pregnancy	1.46 (1.19-1.80)
First trimester of ARV use	First	No ARV taken	0.55 (0.29-1.02)
		Second	0.96 (0.78-1.17)
		Third	1.43 (1.07-1.92)
First CD4 cell count in pregnancy (cells/mm ³)	≥500	<200	1.13 (0.87-1.47)
		200-<350	1.33 (1.05-1.68)
		350-<500	1.15 (0.90-1.45)
Last HIV plasma viral load before delivery (copies/ml)	<500	500-<1,000	2.14 (1.51-3.03)
		1,000-<10,000	3.86 (3.05-4.89)
		≥10,000	4.25 (3.28-5.49)
Gestational age at delivery (weeks)	<37	37-<40	3.04 (2.38-3.89)
		≥40	1.07 (0.76-1.50)

 1 Logistic regression models were run for each imputation (N=30). The adjusted odds ratios and confidence intervals shown are the combined estimates from all of the regression models.

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		Multivariab	le analysis comparing	nalysis comparing guideline period							
		-	1998-1999	2000-2008	2009-2013						
Characteristic	Reference category	Category	Adjusted odds ratio, AOR (95% CI) ¹	Adjusted odds ratio, AOR (95% CI) ¹	Adjusted odds ratio, AOR (95% CI) ¹						
Woman's age at delivery (years)	<25	25-30	1.12 (0.66-1.91)	0.82 (0.63-1.06)	0.61 (0.36-1.03)						
		>30	1.18 (0.70-1.97)	0.68 (0.52-0.88)	0.24 (0.12-0.49)						
Timing of HIV diagnosis	Prior to pregnancy	During pregnancy	1.00 (0.61-1.64)	1.56 (1.21-2.01)	2.12 (1.17-3.87)						
First trimester of ARV use	First	No ARV taken	0.15 (0.02-1.23)	0.79 (0.38-1.66)							
		Second	0.84 (0.51-1.40)	0.90 (0.70-1.17)	1.28 (0.74-2.20)						
		Third	1.24 (0.65-2.37)	1.46 (1.02-2.09)	3.26 (1.24-8.57)						
First CD4 cell count in pregnancy (cells/mm ³)	≥500	<200	0.77 (0.39-1.51)	1.24 (0.90-1.72)	0.78 (0.37-1.61)						
		200-<350	0.98 (0.55-1.73)	1.49 (1.12-1.99)	0.87 (0.45-1.67)						
		350-<500	0.82 (0.46-1.47)	1.27 (0.95-1.70)	1.24 (0.64-2.39)						
Last HIV plasma viral load in pregnancy (copies/ml)	<500	500-<1,000	1.32 (0.62-2.79)	2.02 (1.31-3.10)	3.69 (1.35-10.08)						
		1,000-<10,000	1.11 (0.64-1.92)	4.20 (3.15-5.61)	12.46 (6.23-24.93)						
		≥10,000	0.99 (0.54-1.81)	5.38 (3.87-7.48)	11.13 (5.23-23.70)						
Gestational age at delivery (weeks)	<37	37-<40	6.47 (3.17-13.18)	2.80 (2.09-3.76)	1.94 (0.98-3.82)						
		≥40	1.61 (0.67-3.83)	1.24 (0.83-1.86)	0.18 (0.02-1.47)						

Appendix 3. Adjusted Analysis of Imputed Characteristics Associated With an HIV-Associated Cesarean Delivery Versus a Non-HIV-Associated Cesarean Delivery Comparing Guideline Periods 1998-1999, 2000-2008, and 2009-2013 (N=2,886)

¹Logistic regression models were run for each imputation (N=30). The adjusted odds ratios and confidence intervals shown are the combined estimates from all of the regression models.

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Indicatio	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
n																
	N=19	N=28	N=35	N=29	N=20	N=20	N=17	N=13	N=14	N=11	N=13	N=15	N=14	N=12	N=14	N=69
	6	2	2	8	3	3	6	0	4	7	9	9	4	9	5	n (%)
	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)					
Repeat c-	31	42	57	59	46	52	39	36	49	37	38	68	59	59	73	29
section	(16%)	(15%)	(16%)	(20%)	(23%)	(26%)	(22%)	(28%)	(34%)	(32%)	(27%)	(43%)	(41%)	(46%)	(50%)	(42%
	. ,	. ,	. ,	. ,								. ,			. ,)
HIV	31	122	169	134	83	81	84	44	41	32	42	29	26	28	23	8
infection	(16%)	(43%)	(48%)	(45%)	(41%)	(40%)	(48%)	(34%)	(28%)	(27%)	(30%)	(18%)	(18%)	(22%)	(16%)	(12%
	. ,		. ,	. ,											. ,)
Arrest	49	33	45	30	25	23	15	14	16	15	19	22	24	20	22	8
disorder	(25%)	(12%)	(13%)	(10%)	(12%)	(11%)	(9%)	(11%)	(11%)	(13%)	(14%)	(14%)	(17%)	(16%)	(15%)	(12%
	· · /	· · /	· · /	· · ·	. ,	. ,		. ,	, ,	, , , , , , , , , , , , , , , , , , ,	. ,	, ,	. ,	, ,	, ,)
Matenal	8	9	8	10	3 (1%)	6 (3%)	4 (2%)	5 (4%)	8 (6%)	5 (4%)	7 (5%)	1 (1%)	7 (5%)	5 (4%)	3 (2%)	5
indication	(4%)	(3%)	(2%)	(3%)	. ,										. ,	(7%)
Fetal	77	76	73	65	46	41	34	31	30	28	33	39	28	17	24	19
indication	(39%)	(27%)	(21%)	(22%)	(23%)	(20%)	(19%)	(24%)	(21%)	(24%)	(24%)	(25%)	(19%)	(13%)	(17%)	(28%
	· · /	· · /	· · /	· · ·	. ,	. ,	. ,	. ,	, ,	, ,	. ,	` <i>`</i>	, ,	, ,	, ,)
Missing	3	0	1	5	6	12	9	7	25	9	22	10	13	6	8	3
indication																
This table is a subset of the 2.886 women with an available indication for cesarean delivery among the women who had a cesarean delivery in this cohort																
(n=3.025).																

Appendix 4. Frequency of Indications for Cesarean Delivery Among HIV-Infected Women in the PACTG/IMPAACT Cohorts From 1998 to 2013

Those with a missing indication are not included in the percentage tabulations or column total in order to correspond to figure 2.

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