

Supplemental Digital Content 2. Estimated Shifts (in months) in Mean Ages at Pubertal Onset by HIV infection status and by HIV disease severity and antiretroviral treatment measures among HIV-infected youth

Model predictor, with adjustment for:	Girls				Boys			
	Breast Development		Pubic hair		Genitalia		Pubic Hair	
	Mean Shift (95% CI)	p-value	Mean Shift (95% CI)	p-value	Mean Shift (95% CI)	p-value	Mean Shift (95% CI)	p-value
HIV-infected as compared to HIV-exposed uninfected								
	(N=1222)		(N=1185)		(N=1259)		(N=1182)	
Adjusted for Race	8.40 (5.42, 11.39)	<0.001	6.29 (3.07, 9.52)	<0.001	10.70 (7.19, 14.22)	<0.001	9.91 (6.18, 13.64)	<0.001
Adjusted for Race, Birth Cohort, BMI/HT	1.29 (-1.68, 4.25)	0.39	-1.98 (-4.23, 1.28)	0.23	2.60 (-1.190, 6.39)	0.18	-0.16 (-4.09, 3.76)	0.94
cART use at first pubertal assessment								
	(N=1004)		(N=969)		(N=1031)		(N=970)	
Adjusted for Race, Birth Cohort, BMI/HT	-1.39 (-3.85, 1.07)	0.27	-0.56 (-3.21, 2.10)	0.68	1.96 (-0.96, 4.87)	0.19	0.25 (-2.67, 3.16)	0.87
Adjusted for Race, Birth Cohort, BMI/HT, CD4%<15%	-1.41 (-3.88, 1.06)	0.26	-0.73 (-3.40, 1.93)	0.59	1.90 (-1.02, 4.83)	0.20	0.37 (-2.57, 3.30)	0.81
PI use at first pubertal assessment								
Adjusted for Race, Birth Cohort, BMI/HT	-0.79 (-3.16, 1.57)	0.51	-1.05 (-3.58, 1.49)	0.42	2.11 (-0.71, 4.93)	0.14	0.10 (-2.72, 2.92)	0.95
Adjusted for Race, Birth Cohort, BMI/HT, CD4%<15%	-0.69 (-3.06, 1.68)	0.57	-1.06 (-3.61, 1.49)	0.41	2.22 (-0.61, 5.06)	0.12	0.40 (-2.44, 3.24)	0.78
NNRTI use at first pubertal assessment								
Adjusted for Race, Birth Cohort, BMI/HT	-0.83 (-3.39, 1.73)	0.53	-2.39 (-5.13, 0.36)	0.089	0.13 (-2.73, 2.98)	0.93	-2.39 (-5.25, 0.46)	0.10
Adjusted for Race, Birth Cohort, BMI/HT, CD4%<15%	-1.01 (-3.59, 1.56)	0.44	-2.74 (-5.50, 0.02)	0.052	0.05 (-2.81, 2.91)	0.97	-2.46 (-5.33, 0.40)	0.092

Supplemental Digital Content 2, continued

Model predictor, with adjustment for:	Girls				Boys			
	Breast Development		Pubic hair		Genitalia		Pubic Hair	
	Mean Shift (95% CI)	p-value	Mean Shift (95% CI)	p-value	Mean Shift (95% CI)	p-value	Mean Shift (95% CI)	p-value
Duration on cART as of first pubertal assessment (per additional year)								
Adjusted for Race, Birth Cohort, BMI/HT	-0.33 (-0.96, 0.30)	0.30	-0.15 (-0.83, 0.53)	0.67	0.70 (0.00, 1.40)	0.052	0.62 (-0.08, 1.33)	0.084
Adjusted for Race, Birth Cohort, BMI/HT, CD4%<15%	-0.30 (-0.93, 0.33)	0.36	-0.09 (-0.77, 0.59)	0.80	0.76 (0.06, 1.47)	0.034	0.70 (-0.01, 1.42)	0.053
Duration on PIs as of first pubertal assessment (per additional year)								
Adjusted for Race, Birth Cohort, BMI/HT	-0.37 (-0.97, 0.23)	0.23	-0.55 (-1.19, 0.10)	0.10	-0.55 (-0.15, 1.25)	0.12	0.25 (-0.45, 0.96)	0.49
Adjusted for Race, Birth Cohort, BMI/HT, CD4%<15%	-0.32 (-0.92, 0.29)	0.30	-0.51 (-1.16, 0.15)	0.13	0.64 (-0.07, 1.34)	0.076	0.34 (-0.37, 1.05)	0.35
Duration on NNRTIs as of first pubertal assessment (per additional year)								
Adjusted for Race, Birth Cohort, BMI/HT	-0.41 (-1.16, 0.33)	0.28	-0.51 (-1.30, 0.28)	0.21	-0.51 (-1.40, 0.37)	0.26	-0.73 (-1.62, 0.16)	0.11
Adjusted for Race, Birth Cohort, BMI/HT, CD4%<15%	-0.44 (-1.19, 0.30)	0.24	-0.53 (-1.33, 0.27)	0.19	-0.54 (-1.43, 0.35)	0.23	-0.74 (-1.64, 0.15)	0.10