

**Supplementary Table 2. Comparison of CD4 count, CD8 count and CD4/CD8 ratio between patients achieved optimal immune outcome and conventional outcome by Year 4 in generalized estimating equations**

Model:	a. CD4 (cells/ $\mu$ L)		b. CD8 (cells/ $\mu$ L)		c. CD4/CD8 ratio	
	B	95%C.I.	B	95%C.I.	B	95%C.I.
<b>(Intercept)</b>	282.86	273.99 to 291.74*	1142.76	1105.97 to 1179.55*	0.24	0.22 to 0.25*
<b>Months from HAART initiation</b>						
>96 months	421.75	400.9 to 442.59*	-54.91	-95.36 to -14.47*	0.49	0.46 to 0.52*
84-96	388.40	366.41 to 410.39*	-18.28	-61.83 to 25.27	0.44	0.41 to 0.47*
72-84	375.13	358.62 to 391.64*	-18.79	-58.14 to 20.57	0.41	0.39 to 0.43*
60-72	328.63	314.74 to 342.52*	-50.54	-85.11 to -15.98*	0.37	0.35 to 0.39*
48-60	297.14	283.97 to 310.3*	-19.01	-48.33 to 10.3	0.34	0.31 to 0.37*
36-48	267.56	256.63 to 278.49*	-14.72	-42.71 to 13.28	0.28	0.26 to 0.3*
24-36	207.20	196.89 to 217.52*	19.10	-7.03 to 45.24	0.20	0.19 to 0.22*
12-24	119.10	111.79 to 126.42*	61.80	37.11 to 86.48*	0.10	0.08 to 0.12*
$\leq$ 12 months	0 <sup>a</sup>		0 <sup>a</sup>		0 <sup>a</sup>	
<b>Achievement by year 4</b>						
optimal	97.55	80.71 to 114.39*	-401.33	-437.93 to	0.41	0.37 to 0.45*
immune				-364.74*		

outcome

conventional 0<sup>a</sup> 0<sup>a</sup> 0<sup>a</sup>

outcome

**(Scale)** 31443 151917 0.06

---

\*p<0.05

optimal immune outcome – achievement of CD4≥500/μL and CD4/CD8 ratio ≥0.8 by Year 4;

conventional outcome – achievement of only CD4≥500/μL by Year 4;