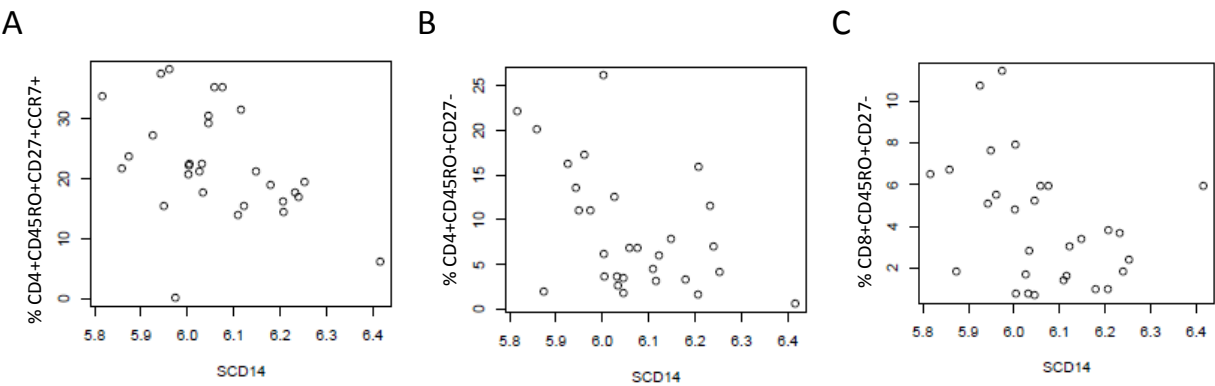
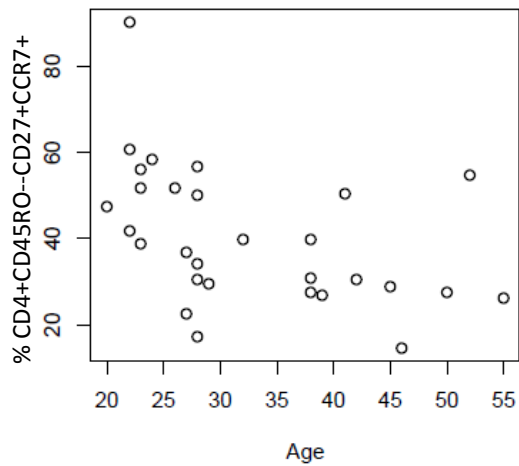


**Supplemental Figure 1. sCD14 at Week 24 is Associated with Decreases in Mature T cell Subsets in the Blood.** In univariable analyses baseline sCD14 measurements in the blood negatively correlates with week 0 A) proportions of central memory (CD45RO<sup>+</sup>CD27<sup>+</sup>CCR7<sup>+</sup>) CD4<sup>+</sup> T cells , B) effector memory (CD45RO<sup>+</sup>CD27<sup>-</sup>) CD4<sup>+</sup> T cells and C) effector memory (CD45RO<sup>+</sup>CD27<sup>-</sup>) CD8<sup>+</sup> T cells.

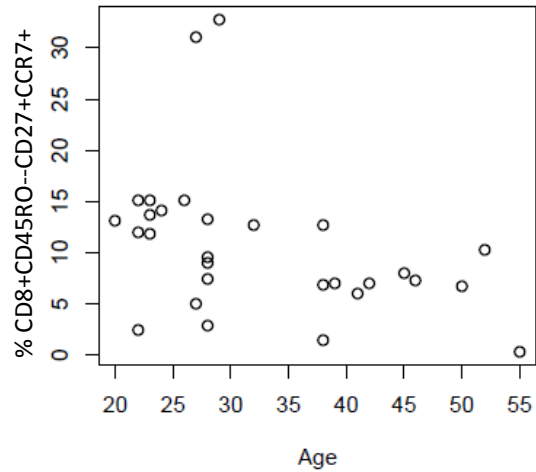


**Supplemental Figure 2. Week 0 Immunologic Correlates of Age.** At week 0, negative correlations with age were present with A) naïve CD4<sup>+</sup> T cells (CD45RO<sup>-</sup>CD27<sup>+</sup>CCR7<sup>+</sup>) and B) and naïve CD8<sup>+</sup> T cells(CD45RO<sup>-</sup>CD27<sup>+</sup>CCR7<sup>+</sup>). Following multivariable analyses only naïve CD4<sup>+</sup> T cells maintained a significant association.

A



B



**Supplemental Table 1: Analysis of Baseline Immunologic Factors as Predictors of Virologic Response**  
**(N = 29)**

	Univariable				Multivariable			
	OR	95% CI	p-value		OR	95% CI	p-value	
<b>CD4<sup>+</sup> T cells</b>								
Central Memory (CD45RO <sup>+</sup> CD27 <sup>+</sup> )	0.813	0.626	0.991	<b>0.039</b>	0.916	0.577	1.228	0.566
Proliferating CM (CD45RO <sup>+</sup> CD27 <sup>+</sup> Ki67 <sup>+</sup> )	0.874	0.715	0.996	<b>0.043</b>	0.908	0.695	1.130	0.366
Regulatory T cells (CD45RO <sup>+</sup> CD27 <sup>+</sup> FoxP3 <sup>+</sup> )	0.548	0.257	1.033	0.063	0.775	0.289	1.849	0.563
<b>CD8<sup>+</sup> T cells</b>								
Central Memory (CD45RO <sup>+</sup> CD27 <sup>+</sup> )	2.639	1.009	11.10	<b>0.047</b>	1.298	0.437	15.71	0.669
Effector Memory (CD45RO <sup>+</sup> CD27 <sup>-</sup> )	1.379	1.028	2.028	<b>0.030</b>	2.612	0.844	92.90	0.124
Activated EM (CD45RO <sup>+</sup> CD27 <sup>-</sup> HLADR <sup>+</sup> CD38 <sup>+</sup> )	1.774	1.037	4.365	<b>0.031</b>	6.793	0.746	3294	0.124
Activated Effector (CD45RO <sup>-</sup> CD27 <sup>-</sup> HLADR <sup>+</sup> CD38 <sup>+</sup> )	1.362	1.064	2.071	<b>0.009</b>	0.335	0.865	1.928	0.374
Proliferating Effector (CD45RO <sup>-</sup> CD27 <sup>-</sup> Ki67 <sup>+</sup> )	5.239	1.174	184.6	<b>0.016</b>	1.813	0.608	102.6	0.306

Note:

1. The multivariable analysis started with all the covariates of interest at baseline (age, weeks from EDI to ART, weeks on ART, log<sub>10</sub> HIV RNA copies/ml, sqrt CD4, sCD14 and LPS). Backward selection was applied with 0.20 level p-value and baseline immunologic factor was forced in the model. The result for baseline immunologic factor in the final multivariable model was performed. No T cell immunologic markers were significantly predictive of virologic suppression in multivariable logistic regression model with retained covariates.
2. Abbreviations: CM, central memory; EM, effector memory

