

**Supplementary Table 3.** A list of lipid classes whose pre-ATI levels associate with faster time-to-viral-rebound upon ART cessation.

Lipid class	Group	Proportional Cox Hazard Model					Mantel Cox Test		Spearman's correlation		
		HazardRatio (HR)	HR 95% lower confidence limit	HR 95% higher confidence limit	<i>P</i> value	<i>FDR</i>	<i>P</i> value	<i>FDR</i>	<i>P</i> value	<i>FDR</i>	<i>rho</i>
Lysophosphatidylethanolamine	Phospholipids	4.255	1.586	11.419	0.004	0.028	0.006	0.064	0.002	0.023	-0.595
Lysophosphatidylcholine	Phospholipids	6.340	1.992	20.181	0.002	0.019	0.023	0.160	0.002	0.023	-0.608
Lysophosphatidic acid	Phospholipids	6.970	2.063	23.548	0.002	0.019	0.040	0.212	0.006	0.036	-0.548
Phosphatidylinositol	Phospholipids	2.808	1.082	7.290	0.034	0.147	ns		0.014	0.058	-0.496
Ceramide	Sphingolipids	3.303	1.018	10.714	0.047	0.147	0.002	0.042	0.007	0.036	-0.536