

Supplementary Table 5. Glycomic and metabolic predictors of time-to-viral-rebound using samples from the ACTG Cohort after correction for potential confounders

Adjusted for:			Age		Gender		Ethnicity		ART initiation (early vs. chronic tx)		ART duration		Pre-ATI CD4 count		
Variable			Category	Group	HR	P value	HR	P value	HR	P value	HR	P value	HR	P value	
Time to HIV RNA value ≥1000 copies/mL	A3G3S3	Plasma <i>N</i> -glycans	All	3.01	0.001	2.59	0.010	3.25	0.001	3.02	0.001	3.10	0.001	2.97	0.001
	Pyruvic acid	Metabolites	PTC	2.60	0.014	2.60	0.012	2.65	0.014	2.82	0.011	2.63	0.012	2.70	0.023
	ConA-binding glycans	Plasma total glycans	All	2.56	0.009	2.45	0.008	2.52	0.008	2.64	0.007	2.57	0.008	2.45	0.011
	MPA-binding glycans	Plasma total glycans	All	2.27	0.0002	2.38	0.0001	2.28	0.0003	2.28	0.0002	2.28	0.0003	2.28	0.0003
	ACA-binding glycans	Plasma total glycans	All	2.27	0.006	2.09	0.011	2.34	0.004	2.24	0.006	2.22	0.007	2.20	0.008
	ACG-binding glycans	Plasma total glycans	All	0.53	0.002	0.57	0.006	0.54	0.001	0.53	0.002	0.54	0.002	0.53	0.001
	RCA120-binding glycans	Plasma total glycans	All	0.51	0.005	0.52	0.006	0.50	0.002	0.51	0.004	0.51	0.003	0.51	0.006
	AAL-binding glycans	Plasma total glycans	All	0.37	0.0001	0.33	0.00002	0.37	0.0002	0.39	0.0001	0.39	0.0001	0.39	0.0001
	DSA-binding glycans	Plasma total glycans	All	0.30	0.003	0.37	0.025	0.26	0.001	0.30	0.003	0.30	0.004	0.28	0.002
	L-glutamic acid	Metabolites	All	0.25	0.004	0.28	0.009	0.23	0.002	0.23	0.004	0.25	0.004	0.26	0.005
	G2	IgG <i>N</i> -glycans	All	0.19	0.038	0.19	0.021	0.22	0.049	0.22	0.047	0.22	0.05	0.21	0.040
	UDA-binding glycans	Plasma total glycans	All	0.18	0.001	0.20	0.002	0.18	0.001	0.16	0.0004	0.17	0.001	0.18	0.0004
	STL-binding glycans	Plasma total glycans	All	0.17	0.003	0.17	0.002	0.17	0.003	0.16	0.002	0.15	0.002	0.16	0.003
Time to two consecutive HIV RNA values ≥1000 copies/mL	A3G3S3	Plasma <i>N</i> -glycans	All	4.04	0.000	3.56	0.001	3.92	0.000	3.77	0.000	3.71	0.000	3.65	0.000
	ConA-binding glycans	Plasma total glycans	All	4.14	0.000	3.55	0.001	3.79	0.000	4.06	0.000	3.74	0.000	3.67	0.000
	Nicotinamide 1-oxide	Metabolites	PTC	4.64	0.012	3.43	0.030	3.26	0.037	3.53	0.029	3.52	0.032	3.35	0.033
	MPA-binding glycans	Plasma total glycans	All	2.86	0.0000	2.71	0.0000	2.81	0.0000	2.71	0.0000	2.72	0.0000	2.75	0.0000
	ACA-binding glycans	Plasma total glycans	All	2.23	0.016	1.97	0.036	2.10	0.023	2.07	0.025	2.03	0.028	2.03	0.031
	ABA-binding glycans	Plasma total glycans	All	2.06	0.022	2.19	0.013	2.08	0.019	2.06	0.021	2.04	0.025	2.16	0.016
	α-ketoglutaric acid	Metabolites	All	0.46	0.001	0.54	0.002	0.51	0.001	0.48	0.001	0.54	0.003	0.54	0.002
	LCA-binding glycans	Plasma total glycans	All	0.52	0.042	0.48	0.028	0.53	0.048	0.49	0.031	0.52	0.037	0.48	0.023
	ACG-binding glycans	Plasma total glycans	All	0.48	0.000	0.53	0.001	0.52	0.001	0.51	0.001	0.52	0.001	0.51	0.000
	DSA-binding glycans	Plasma total glycans	All	0.30	0.004	0.35	0.021	0.30	0.005	0.32	0.007	0.32	0.009	0.28	0.003
	AAL-binding glycans	Plasma total glycans	All	0.28	0.000	0.25	0.000	0.25	0.000	0.28	0.000	0.29	0.000	0.28	0.000
	L-glutamic acid	Metabolites	All	0.23	0.006	0.25	0.010	0.22	0.004	0.22	0.006	0.24	0.01	0.24	0.009
	G2	IgG <i>N</i> -glycans	All	0.11	0.005	0.14	0.009	0.15	0.013	0.15	0.0144	0.15	0.019	0.14	0.0119
	UDA-binding glycans	Plasma total glycans	All	0.12	0.000	0.14	0.000	0.13	0.000	0.11	0.000	0.13	0.000	0.13	0.000
	STL-binding glycans	Plasma total glycans	All	0.12	0.001	0.12	0.001	0.11	0.001	0.12	0.001	0.11	0.001	0.11	0.001

HR = Hazard Ratio