

Supplementary Table 7. Comparisons of C-index between each univariate Cox model versus multivariable Cox model with Lasso selected variables predict time to two consecutive VL ≥ 1000

Predictors in the model	N	C-index	SE	95% Confidence interval		P-value (single predictor models vs. Lasso selected multivariable model)
Variables identified by Lasso multivariable Cox model	70	0.764	0.039	0.7	0.842	reference
Plasma A3G3S3 glycans	70	0.651	0.039	0.6	0.729	0.022
Plasma mannose (ConA binding)	70	0.599	0.045	0.5	0.688	0.004
Nicotinamide1 oxide	70	0.532	0.04	0.5	0.611	<0.0001
Plasma T-antigen (MPA binding)	70	0.623	0.044	0.5	0.711	0.002
Plasma T-antigen (ACA binding)	70	0.605	0.04	0.5	0.685	0.001
Plasma T-antigen (ABA binding)	70	0.631	0.043	0.5	0.718	0.002
α-ketoglutaric acid	70	0.623	0.041	0.5	0.706	0.006
Core fucose (LCA binding)	70	0.574	0.045	0.5	0.663	<0.0001
α2,3 sialic acid (ACG binding)	70	0.508	0.046	0.4	0.601	<0.0001
GlcNAcβ1-6Mannose (DSA binding)	70	0.51	0.041	0.4	0.591	<0.0001
Total fucose (AAL binding)	70	0.649	0.042	0.6	0.733	0.003
L-glutamic acid	70	0.633	0.038	0.6	0.708	0.002
IgG G2 glycans	70	0.546	0.051	0.4	0.648	<0.0001
(GlcNAc)n (UDA binding)	70	0.605	0.044	0.5	0.692	0.001
(GlcNAc)n (STL binding)	70	0.641	0.041	0.6	0.723	0.006

Bold variables are those selected by Lasso to be included in the multivariable Cox model predicting time to two consecutive VL ≥ 1000 . C-index = The concordance index; SE = Standard error