

Supplementary Table 9. Comparisons of AUC between each logistic model with single predictor versus multivariable logistic regression with lasso selected variables predicting outcome (NC vs. PTC)

Predictors in the model	N	AUC	SE	95% Confidence interval		P-value (single predictor models vs. Lasso selected multivariable model)
Variables identified by Lasso multivariable logistic model	70	0.98	0.016	0.94	1	reference
IgG A2 glycans	70	0.87	0.039	0.8	0.95	0.0013
Plasma A3G3S3 glycans	70	0.72	0.068	0.59	0.85	0.0001
Total fucose (AAL binding)	70	0.79	0.053	0.69	0.89	0.0003
Core fucose (PSA binding)	70	0.69	0.064	0.57	0.82	<0.0001
Core fucose (LCA binding)	70	0.71	0.063	0.58	0.83	<0.0001
Plasma T-antigen (ABA binding)	70	0.75	0.063	0.63	0.87	0.0001
(GlcNAc)n (STL binding)	70	0.8	0.06	0.68	0.91	0.0018
(GlcNAc)n (UDA binding)	70	0.72	0.066	0.6	0.85	<0.0001
L-glutamic acid	70	0.69	0.064	0.57	0.82	<0.0001
α -ketoglutaric acid	70	0.67	0.071	0.53	0.81	<0.0001

Bold variables are those selected by Lasso to be included in the multivariable logistic model predicting PTC status (PVR score); AUC = Area under the ROC Curve; SE = Standard error