

Supplementary Table 1. Partial Area under the curve (AUC) when specificity and sensitivity are restricted from 0.80 to 1.00 in AN.

Specificity Range	Partial AUC	% Total Area
0.80-1.00	0.1379	15,06%
0.85-1.00	0.0933	10,19%
0.90-1.00	0.0497	5.43%
Sensitivity Range	Partial AUC	% Total Area
0.80-1.00	0.1472	16.07%
0.85-1.00	0.1013	11.06%
0.90-1.00	0.0582	6.35%

Supplementary Table 2. Sensitivity and specificity for AN, 95% CI (2000 stratified bootstrap replicates).

Specificity	Sensitivity		
	low	median	high
0.0	1.00000	1.0000	1.0000
0.1	0.98610	1.0000	1.0000
0.2	0.96530	0.9931	1.0000
0.3	0.96530	0.9861	1.0000
0.4	0.95140	0.9861	1.0000
0.5	0.93060	0.9722	1.0000
0.6	0.91670	0.9549	0.9861
0.7	0.88890	0.9375	0.9792
0.8	0.84030	0.9097	0.9653
<u>0.9</u>	<u>0.30560</u>	<u>0.8472</u>	<u>0.9236</u>
1.0	0.04861	0.1042	0.3335

Sensitivity	Specificity		
	low	median	high
0.0	1.00000	1.0000	1.0000
0.1	0.96100	1.0000	1.0000
0.2	0.93510	0.9740	1.0000
0.3	0.89610	0.9610	1.0000
0.4	0.89610	0.9481	0.9870
0.5	0.89610	0.9481	0.9870
0.6	0.89610	0.9481	0.9870
0.7	0.89610	0.9481	0.9870
0.8	0.85710	0.9351	0.9870
0.9	0.66230	0.8182	0.9351
1.0	0.07792	0.1688	0.5195

Supplementary Figure 1. Heatmap of tuning parameter search for best model. First panel shows heatmap when the objective function is AUC. Second and third panels have as objective function Specificity and Sensitivity respectively.

