

Supplementary Table. ROC Curves of Biomarker/Biofilm Permutations to Predict Moderate - Severe Periodontitis

One Biomarker				Three Biomarkers			
Signature	AUC	OR	95% CI	Signature	AUC	OR	95% CI
MMP8	0.70	5.2	(2.0, 13.6)	Calprotectin + MMP9 + IL10	0.76	6.6	(1.3, 32.2)
MMP9	0.70	5.2	(2.0, 13.6)	MMP8 + Calprotectin + MMP9	0.76	5.0	(1.4, 17.1)
Two Biomarkers				MMP8 + Calprotectin + ICTP	0.76	6.6	(1.3, 32.2)
Signature	AUC	OR	95% CI	MMP8 + Calprotectin + IL10	0.76	5.7	(1.1, 28.3)
Calprotectin + MMP9	0.75	4.4	(1.4, 13.6)	MMP8 + OPG + ICTP	0.75	10.1	(1.1, 84.8)
MMP8 + Calprotectin	0.74	3.9	(1.3, 11.5)	MMP8 + MMP9 + ICTP	0.75	6.9	(1.7, 26.5)
MMP8 + ICTP	0.74	7.7	(2.0, 29.4)	MMP8 + ICTP + IL2	0.74	10.1	(1.1, 84.8)
MMP9 + ICTP	0.73	4.4	(1.4, 13.6)	MMP8 + MMP9 + OPG	0.74	5.5	(1.4, 21.3)
MMP8 + OPG	0.72	6.9	(1.7, 26.5)	MMP8 + MMP9 + IL6	0.73	3.6	(1.2, 10.2)
MMP9 + OPG	0.72	3.5	(1.1, 11.0)	MMP8 + OPG + IL2	0.73	10.1	(1.1, 84.8)
MMP8 + MMP9	0.72	5.4	(2.0, 14.1)	MMP9 + OPG + IL6	0.72	10.1	(1.1, 84.8)
MMP9 + IL1beta	0.71	3.0	(1.1, 7.8)	MMP9 + IL6 + IL4	0.72	3.5	(1.1, 11.0)
MMP9 + IL6	0.71	3.4	(1.2, 9.3)	MMP8 + MMP9 + IL4	0.72	3.3	(1.1, 9.2)
MMP8 + IL4	0.71	3.6	(1.2, 10.2)	Three Pathogens			
MMP9 + IL4	0.71	3.6	(1.2, 10.2)	Signature	AUC	OR	95% CI
MMP8 + IL6	0.71	3.0	(1.1, 7.8)	T.forsythia + T.denticola + P.intermedia	0.90	45.5	(5.6, 365.0)
MMP8 + IL2	0.71	3.5	(1.1, 11.0)	P.gingivalis + T.denticola + P.intermedia	0.90	n/a	n/a
MMP9 + IL10	0.70	3.9	(1.3, 11.5)	T.denticola + P.intermedia + C.rectus	0.90	n/a	n/a
Calprotectin + IL10	0.65	3.5	(1.1, 11.0)	T.denticola + P.intermedia + F.nucleatum	0.90	19.5	(2.4, 158.2)
One Pathogen				T.forsythia + T.denticola + C.rectus	0.89	n/a	n/a
Signature	AUC	OR	95% CI	P.gingivalis + T.forsythia + P.intermedia	0.89	45.5	(5.6, 365.0)
T.denticola	0.82	21.6	(6.7, 68.4)	P.gingivalis + T.denticola + C.rectus	0.89	37.0	(4.6, 297.1)
T.forsythia	0.80	15.5	(5.1, 46.4)	T.forsythia + P.intermedia + F.nucleatum	0.88	17.3	(2.1, 141.2)
P.gingivalis	0.78	13.3	(4.5, 39.0)	P.gingivalis + P.intermedia + F.nucleatum	0.88	n/a	n/a
P.intermedia	0.72	6.7	(2.5, 17.9)	T.denticola + F.nucleatum + C.rectus	0.88	24.4	(3.0, 196.5)
Two Pathogens				T.forsythia + T.denticola + F.nucleatum	0.88	33.4	(4.1, 268.2)
Signature	AUC	OR	95% CI	T.forsythia + P.intermedia + C.rectus	0.87	27.1	(3.3, 218.2)
T.denticola + P.intermedia	0.89	27.3	(5.7, 129.7)	P.gingivalis + T.forsythia + C.rectus	0.87	33.4	(4.1, 268.2)
T.denticola + C.rectus	0.88	37.0	(4.6, 297.1)	P.gingivalis + P.intermedia + C.rectus	0.87	27.1	(3.3, 218.2)
T.forsythia + T.denticola	0.87	63.3	(12.7, 315.3)	P.gingivalis + T.forsythia + T.denticola	0.87	130.0	(15.6, 1083.)
P.gingivalis + P.intermedia	0.87	24.6	(5.1, 116.5)	P.gingivalis + T.forsythia + F.nucleatum	0.86	n/a	n/a
T.forsythia + P.intermedia	0.87	16.0	(4.1, 60.7)	P.gingivalis + T.denticola + F.nucleatum	0.86	37.0	(4.6, 297.1)
P.gingivalis + T.denticola	0.86	73.6	(14.5, 372.2)	T.forsythia + F.nucleatum + C.rectus	0.85	n/a	n/a
T.denticola + F.nucleatum	0.85	11.7	(3.0, 44.4)	P.gingivalis + F.nucleatum + C.rectus	0.83	11.9	(2.4, 56.5)
P.gingivalis + T.forsythia	0.84	41.1	(10.2, 165.4)	P.intermedia + F.nucleatum + C.rectus	0.76	7.7	(2.0, 29.4)
T.forsythia + F.nucleatum	0.84	16.3	(3.4, 77.1)				
T.forsythia + C.rectus	0.84	11.7	(3.0, 44.4)				
P.gingivalis + F.nucleatum	0.82	18.0	(3.8, 85.4)				
P.gingivalis + C.rectus	0.81	5.4	(1.8, 15.7)				
P.intermedia + F.nucleatum	0.76	4.9	(1.5, 15.1)				
P.intermedia + C.rectus	0.74	6.6	(2.2, 19.3)				
F.nucleatum + C.rectus	0.65	4.9	(1.6, 14.1)				

One Biomarker & One Pathogen

Signature	AUC	OR	95% CI
T.denticola + ICTP	0.89	24.4	(3.0, 196.5)
MMP8 + T.denticola	0.88	24.6	(5.1, 116.5)
MMP9 + T.denticola	0.88	24.6	(5.1, 116.5)
MMP8 + P.gingivalis	0.86	50.5	(6.2, 405.2)
MMP9 + P.gingivalis	0.86	50.5	(6.2, 405.2)
MMP8 + T.forsythia	0.86	24.6	(5.1, 116.5)
MMP9 + T.forsythia	0.86	24.6	(5.1, 116.5)
Calprotectin + T.denticola	0.85	13.0	(3.4, 49.2)
T.denticola + IL6	0.85	20.0	(4.2, 94.6)
OPG + T.denticola	0.85	7.7	(2.0, 29.4)
Calprotectin + T.forsythia	0.84	18.0	(3.8, 85.4)
T.denticola + IL13	0.84	10.6	(2.7, 40.1)
T.denticola + IL10	0.84	16.3	(3.4, 77.1)
T.forsythia + ICTP	0.84	8.6	(2.2, 32.7)
T.forsythia + IL13	0.84	4.9	(1.6, 14.1)
Calprotectin + P.gingivalis	0.84	18.0	(3.8, 85.4)
T.denticola + IL2	0.84	11.9	(2.4, 56.5)
P.gingivalis + IL6	0.83	37.0	(4.6, 297.1)
P.gingivalis + ICTP	0.83	5.6	(1.6, 19.0)
T.denticola + IL4	0.83	13.0	(3.4, 49.2)
T.denticola + TNFa	0.83	7.7	(2.0, 29.4)
T.forsythia + IL6	0.82	7.7	(2.3, 25.8)
T.denticola + IL1beta	0.82	11.7	(3.0, 44.4)
OPG + T.forsythia	0.82	5.0	(1.4, 17.1)
T.forsythia + TNFa	0.82	6.3	(1.8, 21.0)
T.forsythia + IL1beta	0.81	6.6	(2.1, 20.5)
T.forsythia + IL4	0.81	7.4	(2.3, 22.7)
P.gingivalis + IL10	0.81	9.5	(2.5, 36.2)
OPG + P.gingivalis	0.80	3.9	(1.2, 12.2)
MMP8 + P.intermedia	0.80	20.0	(4.2, 94.6)
T.forsythia + IL10	0.80	4.4	(1.4, 12.8)
P.gingivalis + IL2	0.80	11.9	(2.4, 56.5)
T.forsythia + IL2	0.80	8.6	(2.2, 32.7)
P.gingivalis + IL1beta	0.80	18.0	(3.8, 85.4)
P.gingivalis + IL4	0.80	13.0	(3.4, 49.2)
P.gingivalis + IL13	0.80	10.6	(2.7, 40.1)
MMP9 + P.intermedia	0.79	9.5	(2.8, 31.7)
P.gingivalis + TNFa	0.79	11.9	(2.4, 56.5)
Calprotectin + P.intermedia	0.78	5.6	(1.6, 19.0)
ICTP + P.intermedia	0.76	6.3	(1.8, 21.0)
MMP9 + C.rectus	0.75	6.3	(1.8, 21.0)
MMP8 + C.rectus	0.75	10.6	(2.7, 40.1)
IL4 + P.intermedia	0.73	6.0	(1.9, 18.5)
IL13 + P.intermedia	0.73	3.5	(1.2, 10.4)
IL1beta + P.intermedia	0.73	7.0	(2.0, 23.3)
IL6 + P.intermedia	0.73	6.0	(2.0, 17.4)
OPG + P.intermedia	0.73	3.5	(1.2, 10.4)
IL10 + P.intermedia	0.72	6.0	(1.9, 18.5)
MMP8 + F.nucleatum	0.72	3.6	(1.2, 10.2)
IL6 + C.rectus	0.67	6.9	(1.7, 26.5)
Calprotectin + F.nucleatum	0.67	3.5	(1.1, 11.0)
ICTP + C.rectus	0.67	4.5	(1.3, 15.3)
OPG + C.rectus	0.63	4.9	(1.5, 15.1)

One Biomarker & Two Pathogens

Signature	AUC	OR	95% CI
T.denticola + ICTP + C.rectus	0.92	n/a	n/a
T.denticola + ICTP + P.intermedia	0.92	n/a	n/a
MMP8 + T.denticola + P.intermedia	0.92	30.1	(3.7, 242.0)
T.forsythia + T.denticola + ICTP	0.91	24.4	(3.0, 196.5)
MMP9 + T.denticola + P.intermedia	0.91	30.1	(3.7, 242.0)
MMP8 + T.denticola + C.rectus	0.91	n/a	n/a
MMP9 + T.denticola + C.rectus	0.91	n/a	n/a
MMP8 + P.gingivalis + P.intermedia	0.90	n/a	n/a
Calprotectin + T.denticola + P.intermedia	0.90	19.5	(2.4, 158.2)
P.gingivalis + T.denticola + ICTP	0.90	24.4	(3.0, 196.5)
Calprotectin + T.denticola + C.rectus	0.90	n/a	n/a
T.denticola + IL13 + P.intermedia	0.90	10.6	(2.2, 50.8)
MMP8 + T.forsythia + T.denticola	0.90	45.5	(5.6, 365.0)
MMP8 + T.forsythia + P.intermedia	0.90	30.1	(3.7, 242.0)
MMP9 + T.forsythia + T.denticola	0.90	45.5	(5.6, 365.0)
T.denticola + ICTP + F.nucleatum	0.90	n/a	n/a
MMP8 + P.gingivalis + T.denticola	0.90	n/a	n/a
MMP9 + P.gingivalis + T.denticola	0.90	n/a	n/a
Calprotectin + P.gingivalis + P.intermedia	0.90	n/a	n/a
MMP9 + P.gingivalis + P.intermedia	0.90	n/a	n/a
OPG + T.denticola + P.intermedia	0.90	n/a	n/a
T.denticola + TNFa + P.intermedia	0.89	8.4	(1.7, 40.8)
T.denticola + IL4 + P.intermedia	0.89	13.2	(2.7, 62.8)
Calprotectin + T.forsythia + P.intermedia	0.89	n/a	n/a
MMP9 + T.forsythia + P.intermedia	0.89	30.1	(3.7, 242.0)
T.denticola + IL6 + P.intermedia	0.89	33.4	(4.1, 268.2)
T.denticola + IL6 + C.rectus	0.89	n/a	n/a
T.denticola + IL1beta + P.intermedia	0.89	24.4	(3.0, 196.5)
MMP8 + T.denticola + F.nucleatum	0.89	11.9	(2.4, 56.5)
MMP9 + T.denticola + F.nucleatum	0.89	10.6	(2.2, 50.8)
T.denticola + IL2 + P.intermedia	0.89	13.4	(1.6, 111.0)
T.denticola + IL10 + C.rectus	0.89	n/a	n/a
T.denticola + IL10 + P.intermedia	0.89	24.4	(3.0, 196.5)
T.forsythia + IL13 + P.intermedia	0.88	10.6	(2.2, 50.8)
OPG + T.denticola + C.rectus	0.88	n/a	n/a
OPG + T.forsythia + T.denticola	0.88	19.5	(2.4, 158.2)
T.forsythia + T.denticola + IL13	0.88	33.4	(4.1, 268.2)
Calprotectin + T.forsythia + T.denticola	0.88	37.0	(4.6, 297.1)
P.gingivalis + ICTP + P.intermedia	0.88	n/a	n/a
T.denticola + IL2 + C.rectus	0.88	n/a	n/a
MMP8 + P.gingivalis + T.forsythia	0.88	n/a	n/a
MMP9 + P.gingivalis + T.forsythia	0.88	n/a	n/a
T.forsythia + ICTP + P.intermedia	0.88	17.3	(2.1, 141.2)
T.denticola + IL13 + C.rectus	0.88	n/a	n/a
MMP9 + T.forsythia + C.rectus	0.88	19.5	(2.4, 158.2)
T.forsythia + TNFa + P.intermedia	0.88	9.5	(1.9, 45.6)
T.denticola + IL4 + C.rectus	0.88	n/a	n/a
T.denticola + TNFa + C.rectus	0.88	n/a	n/a
T.forsythia + T.denticola + TNFa	0.88	24.4	(3.0, 196.5)
T.denticola + IL1beta + C.rectus	0.88	n/a	n/a
T.forsythia + T.denticola + IL1beta	0.88	33.4	(4.1, 268.2)
OPG + P.gingivalis + T.denticola	0.88	21.8	(2.7, 176.5)
MMP8 + T.forsythia + C.rectus	0.88	24.4	(3.0, 196.5)
T.forsythia + T.denticola + IL6	0.88	33.4	(4.1, 268.2)
P.gingivalis + IL13 + P.intermedia	0.87	21.8	(2.7, 176.5)
T.forsythia + T.denticola + IL4	0.87	37.0	(4.6, 297.1)
T.forsythia + IL10 + P.intermedia	0.87	10.6	(2.2, 50.8)
MMP9 + T.forsythia + F.nucleatum	0.87	19.5	(2.4, 158.2)
Calprotectin + T.forsythia + C.rectus	0.87	10.1	(1.1, 84.8)
P.gingivalis + IL6 + P.intermedia	0.87	30.1	(3.7, 242.0)
MMP8 + T.forsythia + F.nucleatum	0.87	21.8	(2.7, 176.5)
T.forsythia + IL1beta + P.intermedia	0.87	11.9	(2.4, 56.5)
T.forsythia + T.denticola + IL10	0.87	30.1	(3.7, 242.0)
T.forsythia + T.denticola + IL2	0.87	n/a	n/a
OPG + T.forsythia + P.intermedia	0.87	13.4	(1.6, 111.0)
MMP9 + P.gingivalis + C.rectus	0.87	19.5	(2.4, 158.2)
T.forsythia + IL4 + P.intermedia	0.87	27.1	(3.3, 218.2)
MMP9 + P.gingivalis + F.nucleatum	0.87	21.8	(2.7, 176.5)
OPG + P.gingivalis + P.intermedia	0.87	13.4	(1.6, 111.0)
T.forsythia + IL6 + P.intermedia	0.87	13.2	(2.7, 62.8)
Calprotectin + T.denticola + F.nucleatum	0.87	n/a	n/a
P.gingivalis + T.denticola + IL13	0.87	n/a	n/a
P.gingivalis + IL1beta + P.intermedia	0.87	n/a	n/a
P.gingivalis + TNFa + P.intermedia	0.87	17.3	(2.1, 141.2)
Calprotectin + P.gingivalis + T.denticola	0.87	37.0	(4.6, 297.1)
MMP8 + P.gingivalis + F.nucleatum	0.87	24.4	(3.0, 196.5)
P.gingivalis + IL2 + P.intermedia	0.87	13.4	(1.6, 111.0)
MMP8 + P.gingivalis + C.rectus	0.87	24.4	(3.0, 196.5)
Calprotectin + T.forsythia + F.nucleatum	0.87	n/a	n/a
P.gingivalis + IL4 + P.intermedia	0.87	27.1	(3.3, 218.2)
T.forsythia + IL2 + P.intermedia	0.87	15.3	(1.8, 125.5)
P.gingivalis + T.forsythia + IL6	0.87	n/a	n/a
P.gingivalis + T.denticola + IL6	0.87	n/a	n/a
P.gingivalis + IL10 + P.intermedia	0.86	21.8	(2.7, 176.5)

One Biomarker & Two Pathogens

Signature	AUC	OR	95% CI
P.gingivalis + T.denticola + IL10	0.86	n/a	n/a
P.gingivalis + T.denticola + IL2	0.86	n/a	n/a
Calprotectin + P.gingivalis + T.forsythia	0.86	37.0	(4.6, 297.1)
OPG + T.denticola + F.nucleatum	0.86	15.3	(1.8, 125.5)
P.gingivalis + T.forsythia + ICTP	0.86	11.9	(2.4, 56.5)
T.forsythia + ICTP + F.nucleatum	0.86	n/a	n/a
P.gingivalis + T.denticola + IL4	0.86	n/a	n/a
T.denticola + IL6 + F.nucleatum	0.86	15.3	(1.8, 125.5)
T.forsythia + ICTP + C.rectus	0.86	n/a	n/a
T.denticola + IL2 + F.nucleatum	0.86	n/a	n/a
Calprotectin + P.gingivalis + C.rectus	0.86	10.1	(1.1, 84.8)
P.gingivalis + T.denticola + TNFa	0.86	n/a	n/a
OPG + P.gingivalis + T.forsythia	0.86	9.5	(1.9, 45.6)
P.gingivalis + T.forsythia + IL13	0.86	33.4	(4.1, 268.2)
T.denticola + IL13 + F.nucleatum	0.86	10.1	(1.1, 84.8)
T.denticola + IL10 + F.nucleatum	0.86	11.7	(1.4, 97.4)
Calprotectin + P.gingivalis + F.nucleatum	0.86	15.3	(1.8, 125.5)
P.gingivalis + T.forsythia + IL10	0.85	30.1	(3.7, 242.0)
P.gingivalis + T.denticola + IL1beta	0.85	n/a	n/a
T.forsythia + IL6 + C.rectus	0.85	15.3	(1.8, 125.5)
T.forsythia + IL13 + C.rectus	0.85	5.7	(1.1, 28.3)
T.forsythia + IL6 + F.nucleatum	0.85	6.6	(1.3, 32.2)
T.denticola + IL4 + F.nucleatum	0.85	15.3	(1.8, 125.5)
OPG + T.forsythia + F.nucleatum	0.85	13.4	(1.6, 111.0)
P.gingivalis + IL6 + F.nucleatum	0.85	n/a	n/a
T.denticola + IL1beta + F.nucleatum	0.85	7.5	(1.5, 36.3)
OPG + T.forsythia + C.rectus	0.85	n/a	n/a
T.denticola + TNFa + F.nucleatum	0.85	10.1	(1.1, 84.8)
T.forsythia + IL1beta + F.nucleatum	0.85	6.6	(1.3, 32.2)
P.gingivalis + T.forsythia + IL2	0.85	n/a	n/a
T.forsythia + IL1beta + C.rectus	0.84	7.5	(1.5, 36.3)
P.gingivalis + ICTP + F.nucleatum	0.84	n/a	n/a
T.forsythia + IL4 + F.nucleatum	0.84	6.6	(1.3, 32.2)
T.forsythia + TNFa + C.rectus	0.84	13.4	(1.6, 111.0)
P.gingivalis + T.forsythia + IL4	0.84	37.0	(4.6, 297.1)
P.gingivalis + IL6 + C.rectus	0.84	n/a	n/a
T.forsythia + IL4 + C.rectus	0.84	8.4	(1.7, 40.8)
T.forsythia + IL2 + F.nucleatum	0.84	13.4	(1.6, 111.0)
P.gingivalis + T.forsythia + TNFa	0.84	n/a	n/a
T.forsythia + IL10 + F.nucleatum	0.84	5.7	(1.1, 28.3)
T.forsythia + IL10 + C.rectus	0.84	5.7	(1.1, 28.3)
T.forsythia + IL2 + C.rectus	0.84	13.4	(1.6, 111.0)
P.gingivalis + T.forsythia + IL1beta	0.84	n/a	n/a
P.gingivalis + IL10 + F.nucleatum	0.84	n/a	n/a
OPG + P.gingivalis + F.nucleatum	0.83	15.3	(1.8, 125.5)
P.gingivalis + IL4 + F.nucleatum	0.83	15.3	(1.8, 125.5)
P.gingivalis + IL2 + F.nucleatum	0.83	13.4	(1.6, 111.0)
P.gingivalis + IL1beta + F.nucleatum	0.83	15.3	(1.8, 125.5)
P.gingivalis + TNFa + F.nucleatum	0.83	10.1	(1.1, 84.8)
P.gingivalis + IL13 + F.nucleatum	0.83	n/a	n/a
OPG + P.gingivalis + C.rectus	0.82	8.4	(1.7, 40.8)
MMP8 + P.intermedia + F.nucleatum	0.82	8.4	(1.7, 40.8)
P.gingivalis + IL10 + C.rectus	0.82	11.7	(1.4, 97.4)
P.gingivalis + IL2 + C.rectus	0.82	11.7	(1.4, 97.4)
MMP8 + P.intermedia + C.rectus	0.81	24.4	(3.0, 196.5)
P.gingivalis + IL4 + C.rectus	0.81	17.3	(2.1, 141.2)
P.gingivalis + TNFa + C.rectus	0.81	11.7	(1.4, 97.4)
P.gingivalis + IL1beta + C.rectus	0.81	7.5	(1.5, 36.3)
P.gingivalis + IL13 + C.rectus	0.81	11.7	(1.4, 97.4)
MMP9 + P.intermedia + F.nucleatum	0.81	4.8	(1.2, 19.0)
MMP9 + P.intermedia + C.rectus	0.80	10.6	(2.2, 50.8)
Calprotectin + P.intermedia + C.rectus	0.80	5.7	(1.1, 28.3)
ICTP + P.intermedia + F.nucleatum	0.78	10.1	(1.1, 84.8)
IL4 + P.intermedia + F.nucleatum	0.77	6.6	(1.3, 32.2)
ICTP + P.intermedia + C.rectus	0.77	8.4	(1.7, 40.8)
IL10 + P.intermedia + F.nucleatum	0.76	6.6	(1.3, 32.2)
IL1beta + P.intermedia + F.nucleatum	0.76	5.7	(1.1, 28.3)
IL6 + P.intermedia + F.nucleatum	0.76	3.5	(1.0, 12.2)
OPG + P.intermedia + F.nucleatum	0.76	5.7	(1.1, 28.3)
MMP9 + F.nucleatum + C.rectus	0.76	8.4	(1.7, 40.8)
MMP8 + F.nucleatum + C.rectus	0.75	10.6	(2.2, 50.8)
IL4 + P.intermedia + C.rectus	0.75	9.5	(1.9, 45.6)
IL6 + P.intermedia + C.rectus	0.74	9.5	(1.9, 45.6)
IL10 + P.intermedia + C.rectus	0.74	8.4	(1.7, 40.8)
IL1beta + P.intermedia + C.rectus	0.74	7.5	(1.5, 36.3)
IL13 + P.intermedia + C.rectus	0.74	6.6	(1.3, 32.2)
OPG + P.intermedia + C.rectus	0.74	6.2	(1.5, 23.8)
ICTP + F.nucleatum + C.rectus	0.69	n/a	n/a
IL6 + F.nucleatum + C.rectus	0.68	7.5	(1.5, 36.3)

One Biomarker & Two Pathogens

Signature	AUC	OR	95% CI
IL10 + F.nucleatum + C.rectus	0.67	11.7	(1.4, 97.4)
IL1beta + F.nucleatum + C.rectus	0.66	6.6	(1.3, 32.2)
OPG + F.nucleatum + C.rectus	0.65	8.4	(1.7, 40.8)

Two Biomarkers & One Pathogen

Signature	AUC	OR	95% CI
MMP8 + T.denticola + ICTP	0.92	n/a	n/a
MMP9 + T.denticola + ICTP	0.91	n/a	n/a
T.denticola + IL6 + ICTP	0.90	n/a	n/a
Calprotectin + T.denticola + ICTP	0.90	11.7	(1.4, 97.4)
T.denticola + ICTP + IL10	0.90	n/a	n/a
MMP8 + OPG + T.denticola	0.90	15.3	(1.8, 125.5)
MMP8 + T.denticola + IL1beta	0.90	13.2	(2.7, 62.8)
OPG + T.denticola + ICTP	0.90	10.1	(1.1, 84.8)
Calprotectin + MMP9 + P.gingivalis	0.89	15.3	(1.8, 125.5)
MMP9 + OPG + T.denticola	0.89	13.4	(1.6, 111.0)
Calprotectin + MMP9 + T.denticola	0.89	n/a	n/a
MMP9 + T.denticola + IL1beta	0.89	13.2	(2.7, 62.8)
T.denticola + ICTP + IL13	0.89	n/a	n/a
T.denticola + ICTP + IL2	0.89	n/a	n/a
MMP8 + Calprotectin + T.denticola	0.89	n/a	n/a
T.denticola + ICTP + TNFa	0.89	n/a	n/a
MMP8 + T.denticola + IL2	0.89	n/a	n/a
MMP9 + T.denticola + TNFa	0.89	17.3	(2.1, 141.2)
MMP8 + Calprotectin + P.gingivalis	0.89	17.3	(2.1, 141.2)
MMP8 + T.denticola + IL10	0.89	17.3	(2.1, 141.2)
MMP8 + T.denticola + TNFa	0.89	17.3	(2.1, 141.2)
MMP8 + T.denticola + IL13	0.89	17.3	(2.1, 141.2)
Calprotectin + MMP9 + T.forsythia	0.89	n/a	n/a
MMP9 + T.denticola + IL13	0.89	19.5	(2.4, 158.2)
T.denticola + ICTP + IL4	0.89	n/a	n/a
MMP8 + P.gingivalis + ICTP	0.89	n/a	n/a
MMP9 + T.denticola + IL6	0.89	27.1	(3.3, 218.2)
MMP9 + T.denticola + IL2	0.89	n/a	n/a
T.denticola + ICTP + IL1beta	0.89	n/a	n/a
MMP8 + MMP9 + T.denticola	0.89	20.0	(4.2, 94.6)
MMP9 + T.denticola + IL10	0.89	21.8	(2.7, 176.5)
MMP8 + T.denticola + IL6	0.89	27.1	(3.3, 218.2)
MMP8 + T.denticola + IL4	0.88	27.1	(3.3, 218.2)
MMP9 + T.denticola + IL4	0.88	27.1	(3.3, 218.2)
MMP8 + T.forsythia + ICTP	0.88	n/a	n/a
MMP9 + P.gingivalis + ICTP	0.88	n/a	n/a
MMP8 + T.forsythia + IL1beta	0.88	13.2	(2.7, 62.8)
MMP9 + T.forsythia + ICTP	0.88	n/a	n/a
MMP8 + Calprotectin + T.forsythia	0.88	n/a	n/a
MMP8 + OPG + T.forsythia	0.88	n/a	n/a
MMP9 + OPG + T.forsythia	0.88	n/a	n/a
MMP9 + T.forsythia + IL1beta	0.88	13.2	(2.7, 62.8)
MMP9 + T.forsythia + TNFa	0.88	9.5	(1.9, 45.6)
MMP9 + T.forsythia + IL13	0.88	9.5	(1.9, 45.6)
MMP8 + T.forsythia + IL13	0.88	8.4	(1.7, 40.8)
MMP8 + T.forsythia + TNFa	0.87	9.5	(1.9, 45.6)
MMP9 + OPG + P.gingivalis	0.87	13.4	(1.6, 111.0)
MMP9 + P.gingivalis + IL1beta	0.87	27.1	(3.3, 218.2)
MMP9 + P.gingivalis + IL6	0.87	n/a	n/a
MMP8 + OPG + P.gingivalis	0.87	15.3	(1.8, 125.5)
MMP8 + P.gingivalis + IL6	0.87	n/a	n/a
MMP8 + P.gingivalis + IL10	0.87	n/a	n/a
MMP8 + P.gingivalis + IL1beta	0.87	27.1	(3.3, 218.2)
MMP8 + T.forsythia + IL4	0.87	13.2	(2.7, 62.8)
MMP9 + T.forsythia + IL4	0.87	13.2	(2.7, 62.8)
MMP9 + P.gingivalis + TNFa	0.87	17.3	(2.1, 141.2)
MMP8 + P.gingivalis + TNFa	0.87	17.3	(2.1, 141.2)
MMP8 + MMP9 + P.gingivalis	0.87	41.1	(5.1, 329.1)
MMP9 + P.gingivalis + IL13	0.87	n/a	n/a
MMP9 + P.gingivalis + IL10	0.87	n/a	n/a
MMP8 + P.gingivalis + IL4	0.86	27.1	(3.3, 218.2)
MMP9 + P.gingivalis + IL4	0.86	27.1	(3.3, 218.2)
MMP9 + T.forsythia + IL2	0.86	19.5	(2.4, 158.2)
MMP9 + T.forsythia + IL10	0.86	10.6	(2.2, 50.8)
MMP8 + P.gingivalis + IL13	0.86	n/a	n/a
MMP8 + MMP9 + T.forsythia	0.86	20.0	(4.2, 94.6)
Calprotectin + T.denticola + IL6	0.86	15.3	(1.8, 125.5)
MMP9 + T.forsythia + IL6	0.86	11.9	(2.4, 56.5)
MMP8 + T.forsythia + IL6	0.86	11.9	(2.4, 56.5)
Calprotectin + T.forsythia + ICTP	0.86	11.7	(1.4, 97.4)
Calprotectin + T.forsythia + IL13	0.86	17.3	(2.1, 141.2)
MMP8 + T.forsythia + IL2	0.86	17.3	(2.1, 141.2)

Two Biomarkers & One Pathogen

Signature	AUC	OR	95% CI
MMP8 + T.forsythia + IL10	0.86	8.4	(1.7, 40.8)
T.denticola + IL6 + IL13	0.86	9.5	(1.9, 45.6)
MMP8 + P.gingivalis + IL2	0.86	15.3	(1.8, 125.5)
Calprotectin + T.denticola + IL13	0.86	8.4	(1.7, 40.8)
OPG + T.denticola + IL6	0.86	n/a	n/a
Calprotectin + T.forsythia + IL6	0.86	n/a	n/a
T.forsythia + IL6 + IL13	0.86	4.5	(1.3, 15.3)
Calprotectin + T.denticola + IL10	0.86	15.3	(1.8, 125.5)
Calprotectin + P.gingivalis + IL6	0.86	n/a	n/a
MMP9 + P.gingivalis + IL2	0.86	17.3	(2.1, 141.2)
T.denticola + IL10 + IL13	0.86	10.6	(2.2, 50.8)
Calprotectin + P.gingivalis + ICTP	0.86	11.7	(1.4, 97.4)
P.gingivalis + IL6 + ICTP	0.86	n/a	n/a
OPG + T.denticola + IL13	0.86	n/a	n/a
Calprotectin + T.denticola + IL4	0.86	8.4	(1.7, 40.8)
OPG + T.denticola + IL10	0.86	n/a	n/a
Calprotectin + T.denticola + TNFa	0.85	5.7	(1.1, 28.3)
T.denticola + IL6 + IL2	0.85	13.4	(1.6, 111.0)
T.forsythia + IL6 + ICTP	0.85	10.1	(1.1, 84.8)
T.denticola + IL6 + TNFa	0.85	7.5	(1.5, 36.3)
Calprotectin + T.denticola + IL1beta	0.85	15.3	(1.8, 125.5)
OPG + T.denticola + TNFa	0.85	n/a	n/a
Calprotectin + T.forsythia + TNFa	0.85	n/a	n/a
T.denticola + IL6 + IL1beta	0.85	10.6	(2.2, 50.8)
T.denticola + IL6 + IL4	0.85	10.6	(2.2, 50.8)
Calprotectin + T.forsythia + IL1beta	0.85	15.3	(1.8, 125.5)
OPG + T.denticola + IL2	0.85	n/a	n/a
OPG + T.denticola + IL1beta	0.85	10.1	(1.1, 84.8)
T.forsythia + ICTP + TNFa	0.85	13.4	(1.6, 111.0)
T.denticola + IL2 + IL13	0.85	7.5	(1.5, 36.3)
T.denticola + IL6 + IL10	0.85	10.6	(2.2, 50.8)
T.denticola + IL1beta + IL13	0.85	7.5	(1.5, 36.3)
Calprotectin + P.gingivalis + IL10	0.85	n/a	n/a
Calprotectin + T.forsythia + IL4	0.85	17.3	(2.1, 141.2)
OPG + T.denticola + IL4	0.85	n/a	n/a
T.forsythia + IL10 + IL13	0.85	3.2	(1.0, 9.4)
T.denticola + IL13 + IL4	0.85	7.7	(2.0, 29.4)
Calprotectin + T.forsythia + IL10	0.85	13.4	(1.6, 111.0)
Calprotectin + P.gingivalis + IL2	0.84	10.1	(1.1, 84.8)
P.gingivalis + IL6 + IL13	0.84	19.5	(2.4, 158.2)
T.denticola + IL10 + IL2	0.84	11.7	(1.4, 97.4)
T.forsythia + ICTP + IL1beta	0.84	13.4	(1.6, 111.0)
T.denticola + IL2 + TNFa	0.84	8.4	(1.7, 40.8)
Calprotectin + T.forsythia + IL2	0.84	n/a	n/a
Calprotectin + P.gingivalis + IL13	0.84	n/a	n/a
T.denticola + IL10 + TNFa	0.84	6.6	(1.3, 32.2)
Calprotectin + P.gingivalis + IL1beta	0.84	15.3	(1.8, 125.5)
Calprotectin + P.gingivalis + IL4	0.84	17.3	(2.1, 141.2)
T.forsythia + ICTP + IL4	0.84	17.3	(2.1, 141.2)
T.forsythia + IL13 + IL4	0.84	4.4	(1.4, 13.6)
T.forsythia + IL2 + IL13	0.84	4.8	(1.2, 19.0)
OPG + P.gingivalis + IL6	0.84	11.7	(1.4, 97.4)
T.denticola + IL1beta + IL10	0.84	7.5	(1.5, 36.3)
T.denticola + IL10 + IL4	0.84	9.5	(1.9, 45.6)
Calprotectin + P.gingivalis + TNFa	0.84	11.7	(1.4, 97.4)
T.forsythia + ICTP + IL2	0.84	11.7	(1.4, 97.4)
T.denticola + IL2 + IL4	0.84	9.5	(1.9, 45.6)
T.denticola + IL1beta + IL2	0.84	13.4	(1.6, 111.0)
P.gingivalis + ICTP + IL1beta	0.84	11.7	(1.4, 97.4)
P.gingivalis + IL6 + TNFa	0.84	15.3	(1.8, 125.5)
T.forsythia + IL6 + IL1beta	0.83	4.5	(1.3, 15.3)
P.gingivalis + IL6 + IL2	0.83	13.4	(1.6, 111.0)
P.gingivalis + ICTP + IL4	0.83	15.3	(1.8, 125.5)
P.gingivalis + ICTP + IL2	0.83	n/a	n/a
MMP8 + Calprotectin + P.intermedia	0.83	n/a	n/a
T.forsythia + IL6 + IL10	0.83	4.5	(1.3, 15.3)
P.gingivalis + IL6 + IL10	0.83	19.5	(2.4, 158.2)
T.forsythia + IL6 + IL4	0.83	6.2	(1.5, 23.8)
P.gingivalis + IL6 + IL1beta	0.83	n/a	n/a
T.denticola + IL4 + TNFa	0.83	6.9	(1.7, 26.5)
Calprotectin + MMP9 + P.intermedia	0.83	13.4	(1.6, 111.0)
P.gingivalis + IL6 + IL4	0.83	21.8	(2.7, 176.5)
MMP8 + ICTP + P.intermedia	0.83	n/a	n/a
P.gingivalis + ICTP + TNFa	0.83	n/a	n/a
T.denticola + IL1beta + IL4	0.83	13.2	(2.7, 62.8)
MMP8 + TNFa + P.intermedia	0.83	6.6	(1.3, 32.2)
OPG + T.forsythia + IL4	0.83	5.7	(1.1, 28.3)
T.denticola + IL1beta + TNFa	0.83	9.5	(1.9, 45.6)
OPG + T.forsythia + IL2	0.82	5.7	(1.1, 28.3)
MMP9 + TNFa + P.intermedia	0.82	4.8	(1.2, 19.0)
T.forsythia + IL2 + TNFa	0.82	6.2	(1.5, 23.8)

Two Biomarkers & One Pathogen

Signature	AUC	OR	95% CI
T.forsythia + IL4 + TNFa	0.82	7.7	(2.0, 29.4)
T.forsythia + IL1beta + TNFa	0.82	5.0	(1.4, 17.1)
P.gingivalis + IL10 + IL13	0.82	6.9	(1.7, 26.5)
MMP8 + IL1beta + P.intermedia	0.82	21.8	(2.7, 176.5)
MMP8 + IL6 + P.intermedia	0.81	11.9	(2.4, 56.5)
OPG + P.gingivalis + IL1beta	0.81	10.1	(1.1, 84.8)
MMP8 + OPG + P.intermedia	0.81	n/a	n/a
P.gingivalis + IL10 + IL2	0.81	11.7	(1.4, 97.4)
T.forsythia + IL1beta + IL4	0.81	6.3	(1.8, 21.0)
T.forsythia + IL2 + IL4	0.81	10.6	(2.2, 50.8)
MMP9 + ICTP + P.intermedia	0.81	8.4	(1.7, 40.8)
P.gingivalis + IL1beta + IL10	0.81	5.3	(1.8, 125.5)
P.gingivalis + IL2 + IL13	0.81	15.3	(1.8, 125.5)
T.forsythia + IL1beta + IL2	0.81	4.8	(1.2, 19.0)
MMP8 + MMP9 + P.intermedia	0.81	18.0	(3.8, 85.4)
P.gingivalis + IL1beta + IL2	0.81	13.4	(1.6, 111.0)
P.gingivalis + IL10 + IL4	0.81	9.5	(1.9, 45.6)
T.forsythia + IL10 + IL4	0.81	3.5	(1.1, 11.0)
MMP8 + IL13 + P.intermedia	0.81	15.3	(1.8, 125.5)
P.gingivalis + IL10 + TNFa	0.81	13.4	(1.6, 111.0)
P.gingivalis + IL13 + TNFa	0.81	13.4	(1.6, 111.0)
P.gingivalis + IL13 + IL4	0.81	11.9	(2.4, 56.5)
MMP8 + IL4 + P.intermedia	0.81	21.8	(2.7, 176.5)
MMP8 + IL10 + P.intermedia	0.80	21.8	(2.7, 176.5)
P.gingivalis + IL2 + IL4	0.80	9.5	(1.9, 45.6)
P.gingivalis + IL2 + TNFa	0.80	8.4	(1.7, 40.8)
MMP8 + IL2 + P.intermedia	0.80	10.1	(1.1, 84.8)
MMP9 + IL1beta + P.intermedia	0.80	24.4	(3.0, 196.5)
P.gingivalis + IL1beta + IL4	0.80	27.1	(3.3, 218.2)
P.gingivalis + IL1beta + IL13	0.80	15.3	(1.8, 125.5)
MMP9 + IL6 + P.intermedia	0.80	7.7	(2.0, 29.4)
P.gingivalis + IL1beta + TNFa	0.80	19.5	(2.4, 158.2)
MMP9 + OPG + P.intermedia	0.80	6.6	(1.3, 32.2)
P.gingivalis + IL4 + TNFa	0.80	10.6	(2.2, 50.8)
MMP9 + IL13 + P.intermedia	0.79	15.3	(1.8, 125.5)
MMP9 + IL10 + P.intermedia	0.79	24.4	(3.0, 196.5)
Calprotectin + IL6 + P.intermedia	0.79	15.3	(1.8, 125.5)
Calprotectin + IL1beta + P.intermedia	0.79	11.7	(1.4, 97.4)
MMP9 + IL4 + P.intermedia	0.79	24.4	(3.0, 196.5)
Calprotectin + IL10 + P.intermedia	0.79	13.4	(1.6, 111.0)
MMP8 + ICTP + C.rectus	0.78	n/a	n/a
MMP9 + ICTP + C.rectus	0.78	10.1	(1.1, 84.8)
MMP9 + IL6 + C.rectus	0.77	6.6	(1.3, 32.2)
IL4 + TNFa + P.intermedia	0.77	3.5	(1.1, 11.0)
IL6 + ICTP + P.intermedia	0.76	6.6	(1.3, 32.2)
MMP8 + MMP9 + C.rectus	0.76	8.6	(2.2, 32.7)
ICTP + IL4 + P.intermedia	0.76	13.4	(1.6, 111.0)
ICTP + IL1beta + P.intermedia	0.76	5.7	(1.1, 28.3)
MMP9 + OPG + C.rectus	0.76	7.5	(1.5, 36.3)
MMP9 + IL1beta + C.rectus	0.76	6.6	(1.3, 32.2)
MMP9 + IL10 + C.rectus	0.76	13.4	(1.6, 111.0)
MMP8 + IL10 + C.rectus	0.76	13.4	(1.6, 111.0)
MMP9 + IL4 + C.rectus	0.76	6.6	(1.3, 32.2)
ICTP + IL10 + P.intermedia	0.76	6.6	(1.3, 32.2)
MMP8 + IL6 + C.rectus	0.75	7.5	(1.5, 36.3)
MMP8 + IL1beta + C.rectus	0.75	7.5	(1.5, 36.3)
MMP8 + Calprotectin + F.nucleatum	0.75	5.7	(1.1, 28.3)
MMP8 + IL4 + C.rectus	0.75	7.5	(1.5, 36.3)
MMP8 + OPG + C.rectus	0.75	19.5	(2.4, 158.2)
Calprotectin + IL6 + C.rectus	0.75	n/a	n/a
IL13 + IL4 + P.intermedia	0.75	3.9	(1.2, 12.2)
IL6 + IL13 + P.intermedia	0.74	4.5	(1.3, 15.3)
IL6 + IL4 + P.intermedia	0.74	6.9	(1.7, 26.5)
IL6 + IL1beta + P.intermedia	0.74	6.2	(1.5, 23.8)
IL10 + IL4 + P.intermedia	0.74	4.5	(1.3, 15.3)
IL1beta + IL4 + P.intermedia	0.74	6.9	(1.7, 26.5)
IL1beta + IL10 + P.intermedia	0.73	4.0	(1.1, 13.7)
IL2 + IL4 + P.intermedia	0.73	4.0	(1.1, 13.7)
MMP8 + IL2 + F.nucleatum	0.73	5.7	(1.1, 28.3)
IL6 + IL10 + P.intermedia	0.73	6.3	(1.8, 21.0)
IL6 + IL4 + C.rectus	0.69	5.7	(1.1, 28.3)
ICTP + IL4 + C.rectus	0.68	10.1	(1.1, 84.8)
OPG + IL6 + C.rectus	0.68	13.4	(1.6, 111.0)
IL6 + IL10 + C.rectus	0.67	6.6	(1.3, 32.2)
OPG + ICTP + C.rectus	0.67	6.6	(1.3, 32.2)

Two Salivary Biomarkers & Two Periodontal Pathogens

Signature	AUC	OR	95% CI
MMP8 + T.denticola + ICTP + C.rectus	0.95	n/a	n/a
MMP8 + T.denticola + ICTP + P.intermedia	0.95	n/a	n/a
MMP9 + T.denticola + ICTP + C.rectus	0.94	n/a	n/a
Calprotectin + T.denticola + ICTP + C.rectus	0.94	n/a	n/a
T.denticola + IL6 + ICTP + C.rectus	0.94	n/a	n/a
MMP8 + T.forsythia + T.denticola + ICTP	0.94	n/a	n/a
MMP9 + T.denticola + ICTP + P.intermedia	0.94	n/a	n/a
MMP8 + P.gingivalis + T.denticola + ICTP	0.93	n/a	n/a
MMP8 + T.denticola + IL1beta + P.intermedia	0.93	17.3	(2.1, 141.2)
MMP9 + T.forsythia + T.denticola + ICTP	0.93	n/a	n/a
MMP8 + Calprotectin + P.gingivalis + P.interm	0.93	n/a	n/a
Calprotectin + MMP9 + T.denticola + C.rectus	0.93	n/a	n/a
T.denticola + ICTP + IL10 + C.rectus	0.93	n/a	n/a
T.forsythia + T.denticola + ICTP + IL13	0.93	n/a	n/a
MMP8 + T.denticola + TNFa + P.intermedia	0.93	11.7	(1.4, 97.4)
MMP8 + Calprotectin + T.denticola + P.interm	0.93	n/a	n/a
MMP9 + P.gingivalis + T.denticola + ICTP	0.93	n/a	n/a
Calprotectin + MMP9 + P.gingivalis + P.interm	0.93	n/a	n/a
Calprotectin + T.denticola + ICTP + P.interme	0.93	n/a	n/a
T.denticola + ICTP + TNFa + P.intermedia	0.93	n/a	n/a
MMP8 + T.denticola + ICTP + F.nucleatum	0.93	n/a	n/a
MMP8 + OPG + T.denticola + P.intermedia	0.92	n/a	n/a
MMP8 + T.denticola + IL13 + P.intermedia	0.92	15.3	(1.8, 125.5)
T.denticola + ICTP + IL13 + P.intermedia	0.92	n/a	n/a
T.forsythia + T.denticola + IL6 + ICTP	0.92	n/a	n/a
T.denticola + ICTP + IL2 + C.rectus	0.92	n/a	n/a
MMP8 + T.denticola + IL4 + P.intermedia	0.92	19.5	(2.4, 158.2)
T.denticola + IL6 + ICTP + P.intermedia	0.92	n/a	n/a
MMP9 + T.denticola + TNFa + P.intermedia	0.92	13.4	(1.6, 111.0)
T.denticola + ICTP + IL1beta + C.rectus	0.92	n/a	n/a
Calprotectin + MMP9 + T.denticola + P.interm	0.92	n/a	n/a
T.denticola + ICTP + IL1beta + P.intermedia	0.92	n/a	n/a
OPG + T.denticola + ICTP + C.rectus	0.92	n/a	n/a
T.denticola + ICTP + IL4 + C.rectus	0.92	n/a	n/a
MMP8 + P.gingivalis + ICTP + P.intermedia	0.92	n/a	n/a
MMP8 + T.forsythia + IL1beta + P.intermedia	0.92	17.3	(2.1, 141.2)
T.denticola + ICTP + IL4 + P.intermedia	0.92	n/a	n/a
T.denticola + ICTP + IL13 + C.rectus	0.92	n/a	n/a
MMP9 + T.denticola + IL1beta + P.intermedia	0.92	19.5	(2.4, 158.2)
OPG + T.denticola + ICTP + P.intermedia	0.92	n/a	n/a
OPG + T.forsythia + T.denticola + ICTP	0.92	10.1	(1.1, 84.8)
MMP8 + Calprotectin + T.denticola + C.rectus	0.92	n/a	n/a
MMP8 + OPG + T.denticola + C.rectus	0.92	n/a	n/a
MMP9 + T.denticola + IL13 + P.intermedia	0.92	15.3	(1.8, 125.5)
T.denticola + ICTP + IL10 + P.intermedia	0.92	n/a	n/a
T.denticola + ICTP + TNFa + C.rectus	0.92	n/a	n/a
MMP8 + Calprotectin + T.forsythia + P.interm	0.92	n/a	n/a
MMP8 + T.denticola + IL6 + P.intermedia	0.92	21.8	(2.7, 176.5)
MMP9 + T.denticola + IL1beta + C.rectus	0.92	n/a	n/a
P.gingivalis + T.denticola + IL6 + ICTP	0.92	n/a	n/a
MMP8 + T.denticola + IL1beta + C.rectus	0.92	n/a	n/a
T.denticola + ICTP + IL2 + P.intermedia	0.92	n/a	n/a
MMP8 + P.gingivalis + IL1beta + P.intermedia	0.92	n/a	n/a
MMP8 + T.forsythia + T.denticola + IL1beta	0.92	24.4	(3.0, 196.5)
T.forsythia + T.denticola + ICTP + TNFa	0.92	n/a	n/a
MMP8 + T.forsythia + TNFa + P.intermedia	0.92	13.4	(1.6, 111.0)
MMP9 + OPG + T.denticola + C.rectus	0.92	n/a	n/a
T.forsythia + T.denticola + ICTP + IL1beta	0.92	n/a	n/a
Calprotectin + T.forsythia + T.denticola + ICT	0.92	11.7	(1.4, 97.4)
MMP8 + MMP9 + T.denticola + P.intermedia	0.92	27.1	(3.3, 218.2)
MMP8 + T.denticola + IL2 + P.intermedia	0.92	n/a	n/a
MMP9 + T.denticola + ICTP + F.nucleatum	0.92	n/a	n/a
Calprotectin + MMP9 + T.forsythia + P.interm	0.92	n/a	n/a
MMP9 + OPG + T.denticola + P.intermedia	0.92	n/a	n/a
MMP9 + T.denticola + IL4 + P.intermedia	0.92	21.8	(2.7, 176.5)
T.forsythia + T.denticola + ICTP + IL10	0.91	n/a	n/a
MMP8 + T.forsythia + ICTP + P.intermedia	0.91	n/a	n/a
T.forsythia + T.denticola + ICTP + IL4	0.91	n/a	n/a
MMP8 + P.gingivalis + TNFa + P.intermedia	0.91	n/a	n/a
Calprotectin + MMP9 + P.gingivalis + T.dentic	0.91	n/a	n/a
Calprotectin + OPG + T.denticola + C.rectus	0.91	n/a	n/a
T.forsythia + T.denticola + ICTP + IL2	0.91	n/a	n/a
MMP8 + T.denticola + IL10 + P.intermedia	0.91	17.3	(2.1, 141.2)
MMP9 + T.forsythia + T.denticola + IL1beta	0.91	24.4	(3.0, 196.5)
MMP8 + T.forsythia + IL13 + P.intermedia	0.91	15.3	(1.8, 125.5)
Calprotectin + MMP9 + T.forsythia + T.dentic	0.91	n/a	n/a
Calprotectin + T.denticola + IL6 + C.rectus	0.91	n/a	n/a
MMP9 + T.denticola + TNFa + C.rectus	0.91	n/a	n/a
MMP8 + Calprotectin + T.forsythia + T.dentic	0.91	n/a	n/a
Calprotectin + T.denticola + IL13 + P.intermed	0.91	10.1	(1.1, 84.8)

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Signature	AUC	OR	95% CI
MMP8 + MMP9 + T.denticola + C.rectus	0.91	n/a	n/a
MMP8 + OPG + T.forsythia + T.denticola	0.91	n/a	n/a
MMP8 + P.gingivalis + T.denticola + IL1beta	0.91	n/a	n/a
MMP8 + T.forsythia + T.denticola + IL13	0.91	17.3	(2.1, 141.2)
MMP9 + T.forsythia + T.denticola + IL13	0.91	19.5	(2.4, 158.2)
MMP9 + T.forsythia + TNFa + P.intermedia	0.91	15.3	(1.8, 125.5)
MMP9 + T.denticola + IL6 + C.rectus	0.91	n/a	n/a
OPG + P.gingivalis + T.denticola + ICTP	0.91	10.1	(1.1, 84.8)
Calprotectin + OPG + T.denticola + P.interme	0.91	n/a	n/a
P.gingivalis + T.denticola + ICTP + IL10	0.91	n/a	n/a
MMP8 + P.gingivalis + IL13 + P.intermedia	0.91	n/a	n/a
MMP8 + P.gingivalis + IL4 + P.intermedia	0.91	n/a	n/a
MMP8 + T.denticola + IL4 + C.rectus	0.91	n/a	n/a
MMP8 + T.denticola + TNFa + C.rectus	0.91	n/a	n/a
MMP9 + OPG + T.forsythia + T.denticola	0.91	n/a	n/a
MMP9 + T.denticola + IL6 + P.intermedia	0.91	21.8	(2.7, 176.5)
MMP9 + T.denticola + IL2 + P.intermedia	0.91	n/a	n/a
MMP8 + Calprotectin + P.gingivalis + T.dentic	0.91	n/a	n/a
MMP9 + P.gingivalis + ICTP + P.intermedia	0.91	n/a	n/a
MMP9 + T.forsythia + T.denticola + TNFa	0.91	17.3	(2.1, 141.2)
MMP8 + T.forsythia + IL4 + P.intermedia	0.91	19.5	(2.4, 158.2)
MMP9 + P.gingivalis + T.denticola + IL13	0.91	n/a	n/a
MMP9 + T.denticola + IL4 + C.rectus	0.91	n/a	n/a
T.denticola + IL6 + ICTP + F.nucleatum	0.91	n/a	n/a
MMP8 + T.forsythia + T.denticola + TNFa	0.91	17.3	(2.1, 141.2)
MMP8 + T.denticola + IL10 + C.rectus	0.91	n/a	n/a
Calprotectin + P.gingivalis + T.denticola + ICTI	0.91	11.7	(1.4, 97.4)
Calprotectin + T.denticola + ICTP + F.nucleat	0.91	n/a	n/a
Calprotectin + T.denticola + IL4 + P.intermedi	0.91	10.1	(1.1, 84.8)
P.gingivalis + T.denticola + ICTP + IL13	0.91	n/a	n/a
MMP8 + P.gingivalis + T.denticola + IL13	0.91	n/a	n/a
Calprotectin + P.gingivalis + ICTP + P.interme	0.91	n/a	n/a
MMP9 + T.denticola + IL10 + C.rectus	0.91	n/a	n/a
MMP9 + P.gingivalis + IL1beta + P.intermedia	0.91	n/a	n/a
MMP8 + OPG + P.gingivalis + T.denticola	0.91	n/a	n/a
MMP8 + T.denticola + IL6 + C.rectus	0.91	n/a	n/a
MMP9 + OPG + P.gingivalis + T.denticola	0.91	n/a	n/a
MMP9 + P.gingivalis + T.denticola + IL1beta	0.91	n/a	n/a
MMP9 + T.forsythia + IL13 + P.intermedia	0.91	15.3	(1.8, 125.5)
MMP8 + T.denticola + IL13 + C.rectus	0.91	n/a	n/a
Calprotectin + T.denticola + IL10 + C.rectus	0.91	n/a	n/a
MMP8 + OPG + T.forsythia + P.intermedia	0.91	n/a	n/a
MMP8 + T.forsythia + T.denticola + IL4	0.91	24.4	(3.0, 196.5)
MMP9 + T.forsythia + T.denticola + IL4	0.91	24.4	(3.0, 196.5)
MMP9 + T.denticola + IL2 + C.rectus	0.91	n/a	n/a
MMP9 + T.denticola + IL13 + C.rectus	0.91	n/a	n/a
OPG + T.denticola + IL13 + P.intermedia	0.91	n/a	n/a
MMP8 + OPG + P.gingivalis + P.intermedia	0.91	n/a	n/a
MMP9 + T.forsythia + IL1beta + P.intermedia	0.91	19.5	(2.4, 158.2)
MMP9 + T.denticola + IL10 + P.intermedia	0.91	19.5	(2.4, 158.2)
MMP8 + T.denticola + IL2 + C.rectus	0.91	n/a	n/a
Calprotectin + T.forsythia + T.denticola + IL13	0.91	n/a	n/a
P.gingivalis + T.denticola + ICTP + TNFa	0.91	n/a	n/a
MMP8 + P.gingivalis + T.denticola + IL4	0.91	n/a	n/a
MMP8 + P.gingivalis + IL2 + P.intermedia	0.91	n/a	n/a
Calprotectin + T.denticola + IL6 + P.intermedi	0.91	n/a	n/a
Calprotectin + T.denticola + IL1beta + P.inter	0.91	n/a	n/a
MMP9 + P.gingivalis + T.denticola + IL4	0.91	n/a	n/a
P.gingivalis + T.denticola + ICTP + IL2	0.91	n/a	n/a
P.gingivalis + T.denticola + ICTP + IL4	0.91	n/a	n/a
T.denticola + IL2 + IL13 + P.intermedia	0.91	11.7	(1.4, 97.4)
OPG + T.denticola + ICTP + F.nucleatum	0.90	n/a	n/a
T.denticola + ICTP + IL10 + F.nucleatum	0.90	n/a	n/a
T.denticola + IL1beta + IL13 + P.intermedia	0.90	13.4	(1.6, 111.0)
MMP8 + T.forsythia + IL10 + P.intermedia	0.90	17.3	(2.1, 141.2)
T.denticola + ICTP + IL2 + F.nucleatum	0.90	n/a	n/a
MMP8 + T.forsythia + IL6 + P.intermedia	0.90	19.5	(2.4, 158.2)
MMP9 + P.gingivalis + T.denticola + TNFa	0.90	n/a	n/a
MMP9 + P.gingivalis + IL13 + P.intermedia	0.90	n/a	n/a
MMP9 + T.forsythia + ICTP + P.intermedia	0.90	n/a	n/a
MMP8 + MMP9 + P.gingivalis + T.denticola	0.90	n/a	n/a
MMP8 + P.gingivalis + IL6 + P.intermedia	0.90	n/a	n/a
Calprotectin + T.forsythia + ICTP + P.interme	0.90	n/a	n/a
Calprotectin + T.forsythia + IL13 + P.intermedi	0.90	n/a	n/a
MMP9 + P.gingivalis + IL4 + P.intermedia	0.90	n/a	n/a
MMP9 + P.gingivalis + TNFa + P.intermedia	0.90	n/a	n/a
T.denticola + IL10 + IL13 + P.intermedia	0.90	15.3	(1.8, 125.5)
MMP8 + P.gingivalis + T.forsythia + ICTP	0.90	n/a	n/a
MMP8 + P.gingivalis + T.denticola + TNFa	0.90	n/a	n/a
Calprotectin + MMP9 + T.forsythia + C.rectus	0.90	n/a	n/a

Two Salivary Biomarkers & Two Periodontal Pathogens

Signature	AUC	OR	95% CI
Calprotectin + T.denticola + IL10 + P.intermedi	0.90	n/a	n/a
MMP8 + P.gingivalis + T.denticola + IL2	0.90	n/a	n/a
MMP8 + MMP9 + T.forsythia + T.denticola	0.90	37.0	(4.6, 297.1)
Calprotectin + MMP9 + P.gingivalis + T.forsyt	0.90	n/a	n/a
MMP9 + P.gingivalis + T.forsythia + ICTP	0.90	n/a	n/a
P.gingivalis + T.denticola + ICTP + IL1beta	0.90	n/a	n/a
T.denticola + IL6 + IL13 + P.intermedia	0.90	17.3	(2.1, 141.2)
T.denticola + ICTP + IL13 + F.nucleatum	0.90	n/a	n/a
MMP8 + Calprotectin + T.denticola + F.nuclea	0.90	n/a	n/a
MMP8 + P.gingivalis + IL10 + P.intermedia	0.90	n/a	n/a
MMP8 + Calprotectin + P.gingivalis + T.forsyt	0.90	n/a	n/a
MMP8 + OPG + T.denticola + F.nucleatum	0.90	13.4	(1.6, 111.0)
MMP8 + T.forsythia + T.denticola + IL2	0.90	n/a	n/a
Calprotectin + T.denticola + IL13 + C.rectus	0.90	n/a	n/a
MMP9 + T.forsythia + IL4 + P.intermedia	0.90	21.8	(2.7, 176.5)
T.denticola + IL13 + IL4 + P.intermedia	0.90	9.5	(1.9, 45.6)
MMP8 + T.forsythia + IL2 + P.intermedia	0.90	n/a	n/a
Calprotectin + MMP9 + T.denticola + F.nuclea	0.90	n/a	n/a
T.denticola + ICTP + TNFa + F.nucleatum	0.90	n/a	n/a
T.denticola + IL13 + TNFa + P.intermedia	0.90	5.7	(1.1, 28.3)
MMP9 + T.forsythia + T.denticola + IL10	0.90	21.8	(2.7, 176.5)
MMP9 + T.forsythia + IL2 + P.intermedia	0.90	n/a	n/a
MMP8 + MMP9 + P.gingivalis + P.intermedia	0.90	n/a	n/a
Calprotectin + T.denticola + IL2 + C.rectus	0.90	n/a	n/a
Calprotectin + T.denticola + TNFa + C.rectus	0.90	n/a	n/a
OPG + T.denticola + IL4 + P.intermedia	0.90	n/a	n/a
T.denticola + ICTP + IL4 + F.nucleatum	0.90	n/a	n/a
T.denticola + ICTP + IL1beta + F.nucleatum	0.90	n/a	n/a
MMP8 + P.gingivalis + T.denticola + IL10	0.90	n/a	n/a
Calprotectin + OPG + P.gingivalis + P.interme	0.90	n/a	n/a
Calprotectin + P.gingivalis + TNFa + P.interm	0.90	n/a	n/a
MMP9 + T.forsythia + T.denticola + IL6	0.90	24.4	(3.0, 196.5)
MMP9 + T.forsythia + IL10 + P.intermedia	0.90	19.5	(2.4, 158.2)
Calprotectin + T.denticola + IL4 + C.rectus	0.90	n/a	n/a
OPG + T.denticola + TNFa + P.intermedia	0.90	n/a	n/a
MMP8 + T.forsythia + T.denticola + IL6	0.90	24.4	(3.0, 196.5)
MMP8 + T.forsythia + T.denticola + IL10	0.90	17.3	(2.1, 141.2)
MMP8 + T.forsythia + ICTP + C.rectus	0.90	n/a	n/a
MMP8 + T.denticola + IL1beta + F.nucleatum	0.90	6.6	(1.3, 32.2)
Calprotectin + P.gingivalis + IL4 + P.intermedi	0.90	n/a	n/a
MMP9 + P.gingivalis + T.denticola + IL6	0.90	n/a	n/a
Calprotectin + P.gingivalis + IL13 + P.interme	0.90	n/a	n/a
MMP9 + OPG + P.gingivalis + P.intermedia	0.90	n/a	n/a
MMP9 + P.gingivalis + IL2 + P.intermedia	0.90	n/a	n/a
T.denticola + IL6 + TNFa + P.intermedia	0.90	13.4	(1.6, 111.0)
T.denticola + IL2 + TNFa + P.intermedia	0.90	11.7	(1.4, 97.4)
MMP9 + OPG + T.denticola + F.nucleatum	0.90	10.1	(1.1, 84.8)
OPG + T.denticola + IL6 + P.intermedia	0.90	n/a	n/a
OPG + T.denticola + IL1beta + P.intermedia	0.90	n/a	n/a
Calprotectin + OPG + T.forsythia + P.intermed	0.90	n/a	n/a
Calprotectin + T.denticola + IL1beta + C.rectu	0.90	n/a	n/a
MMP9 + OPG + T.forsythia + P.intermedia	0.90	n/a	n/a
MMP9 + P.gingivalis + T.forsythia + IL13	0.90	n/a	n/a
T.denticola + IL10 + TNFa + P.intermedia	0.90	13.4	(1.6, 111.0)
Calprotectin + OPG + T.forsythia + C.rectus	0.90	n/a	n/a
Calprotectin + P.gingivalis + IL10 + P.interme	0.90	n/a	n/a
Calprotectin + T.forsythia + TNFa + P.interme	0.90	n/a	n/a
T.denticola + IL6 + IL4 + P.intermedia	0.90	19.5	(2.4, 158.2)
T.denticola + IL2 + IL4 + P.intermedia	0.90	13.4	(1.6, 111.0)
MMP9 + P.gingivalis + T.denticola + IL2	0.90	n/a	n/a
MMP9 + T.denticola + IL1beta + F.nucleatum	0.90	5.7	(1.1, 28.3)
T.forsythia + T.denticola + IL6 + IL13	0.90	19.5	(2.4, 158.2)
Calprotectin + P.gingivalis + IL1beta + P.inter	0.90	n/a	n/a
MMP9 + P.gingivalis + T.forsythia + TNFa	0.90	n/a	n/a
T.denticola + IL6 + IL13 + C.rectus	0.90	n/a	n/a
MMP8 + P.gingivalis + T.forsythia + IL1beta	0.90	n/a	n/a
MMP8 + P.gingivalis + T.forsythia + TNFa	0.90	n/a	n/a
T.denticola + IL6 + IL2 + P.intermedia	0.90	n/a	n/a
T.denticola + IL10 + IL4 + P.intermedia	0.90	17.3	(2.1, 141.2)
MMP8 + MMP9 + T.forsythia + P.intermedia	0.90	27.1	(3.3, 218.2)
MMP9 + P.gingivalis + T.forsythia + IL1beta	0.90	n/a	n/a
MMP9 + T.forsythia + T.denticola + IL2	0.90	n/a	n/a
MMP8 + P.gingivalis + T.forsythia + IL4	0.90	n/a	n/a
MMP8 + P.gingivalis + T.denticola + IL6	0.90	n/a	n/a
MMP8 + T.forsythia + IL1beta + C.rectus	0.90	11.7	(1.4, 97.4)
Calprotectin + P.gingivalis + IL2 + P.intermedi	0.90	n/a	n/a
Calprotectin + T.forsythia + IL1beta + P.interm	0.90	n/a	n/a
MMP9 + P.gingivalis + T.forsythia + IL4	0.90	n/a	n/a
MMP9 + P.gingivalis + IL6 + P.intermedia	0.90	n/a	n/a
MMP8 + P.gingivalis + T.forsythia + IL13	0.90	n/a	n/a
MMP8 + T.forsythia + IL1beta + F.nucleatum	0.89	11.7	(1.4, 97.4)
MMP9 + OPG + P.gingivalis + T.forsythia	0.89	n/a	n/a
MMP9 + P.gingivalis + T.denticola + IL10	0.89	n/a	n/a
MMP9 + T.forsythia + ICTP + C.rectus	0.89	n/a	n/a

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Signature	AUC	OR	95% CI
MMP8 + P.gingivalis + ICTP + F.nucleatum	0.89	n/a	n/a
Calprotectin + P.gingivalis + IL6 + P.intermedi	0.89	n/a	n/a
Calprotectin + T.forsythia + IL4 + P.intermedia	0.89	n/a	n/a
Calprotectin + MMP9 + T.forsythia + F.nucleat	0.89	n/a	n/a
Calprotectin + T.forsythia + IL10 + P.intermedi	0.89	n/a	n/a
MMP9 + T.forsythia + IL6 + P.intermedia	0.89	19.5	(2.4, 158.2)
OPG + T.denticola + IL6 + C.rectus	0.89	n/a	n/a
T.forsythia + T.denticola + IL10 + IL13	0.89	21.8	(2.7, 176.5)
T.denticola + IL6 + IL1beta + P.intermedia	0.89	19.5	(2.4, 158.2)
T.denticola + IL6 + TNFa + C.rectus	0.89	n/a	n/a
T.denticola + IL1beta + TNFa + P.intermedia	0.89	13.4	(1.6, 111.0)
T.denticola + IL4 + TNFa + P.intermedia	0.89	7.5	(1.5, 36.3)
MMP8 + OPG + P.gingivalis + T.forsythia	0.89	n/a	n/a
MMP8 + T.denticola + IL2 + F.nucleatum	0.89	n/a	n/a
OPG + T.denticola + IL10 + P.intermedia	0.89	n/a	n/a
T.denticola + IL1beta + IL2 + P.intermedia	0.89	n/a	n/a
MMP9 + P.gingivalis + IL10 + P.intermedia	0.89	n/a	n/a
MMP9 + T.denticola + IL10 + F.nucleatum	0.89	11.7	(1.4, 97.4)
OPG + T.denticola + IL2 + P.intermedia	0.89	n/a	n/a
T.denticola + IL6 + IL4 + C.rectus	0.89	n/a	n/a
T.denticola + IL1beta + IL4 + P.intermedia	0.89	19.5	(2.4, 158.2)
MMP8 + Calprotectin + T.forsythia + F.nucleat	0.89	n/a	n/a
MMP8 + T.forsythia + ICTP + F.nucleatum	0.89	n/a	n/a
MMP8 + T.denticola + IL10 + F.nucleatum	0.89	10.1	(1.1, 84.8)
Calprotectin + T.forsythia + IL2 + P.intermedia	0.89	n/a	n/a
MMP9 + T.forsythia + IL1beta + C.rectus	0.89	10.1	(1.1, 84.8)
OPG + T.denticola + IL10 + C.rectus	0.89	n/a	n/a
MMP8 + Calprotectin + T.forsythia + C.rectus	0.89	n/a	n/a
Calprotectin + T.forsythia + IL6 + P.intermedia	0.89	n/a	n/a
Calprotectin + T.forsythia + IL6 + C.rectus	0.89	n/a	n/a
T.forsythia + IL13 + TNFa + P.intermedia	0.89	5.7	(1.1, 28.3)
T.denticola + IL1beta + IL10 + P.intermedia	0.89	15.3	(1.8, 125.5)
T.denticola + IL6 + IL2 + C.rectus	0.89	n/a	n/a
MMP8 + MMP9 + P.gingivalis + T.forsythia	0.89	n/a	n/a
T.denticola + IL6 + IL1beta + C.rectus	0.89	n/a	n/a
MMP9 + T.forsythia + IL1beta + F.nucleatum	0.89	10.1	(1.1, 84.8)
OPG + T.forsythia + T.denticola + IL13	0.89	n/a	n/a
T.forsythia + ICTP + IL1beta + P.intermedia	0.89	10.1	(1.1, 84.8)
MMP9 + T.denticola + IL2 + F.nucleatum	0.89	n/a	n/a
P.gingivalis + IL6 + ICTP + P.intermedia	0.89	n/a	n/a
T.forsythia + ICTP + TNFa + P.intermedia	0.89	10.1	(1.1, 84.8)
T.denticola + IL6 + IL10 + P.intermedia	0.89	21.8	(2.7, 176.5)
T.denticola + IL6 + IL10 + C.rectus	0.89	n/a	n/a
T.forsythia + ICTP + IL4 + P.intermedia	0.89	n/a	n/a
MMP8 + T.denticola + TNFa + F.nucleatum	0.89	10.1	(1.1, 84.8)
MMP8 + MMP9 + T.denticola + F.nucleatum	0.89	9.5	(1.9, 45.6)
Calprotectin + T.forsythia + ICTP + C.rectus	0.89	n/a	n/a
MMP9 + T.denticola + IL6 + F.nucleatum	0.89	11.7	(1.4, 97.4)
MMP9 + T.denticola + IL4 + F.nucleatum	0.89	13.4	(1.6, 111.0)
MMP8 + P.gingivalis + ICTP + C.rectus	0.89	n/a	n/a
OPG + T.denticola + IL13 + C.rectus	0.89	n/a	n/a
T.denticola + IL10 + IL2 + P.intermedia	0.89	n/a	n/a
T.denticola + IL10 + IL13 + C.rectus	0.89	n/a	n/a
MMP8 + T.denticola + IL6 + F.nucleatum	0.89	13.4	(1.6, 111.0)
Calprotectin + OPG + T.denticola + F.nucleat	0.89	n/a	n/a
OPG + T.forsythia + T.denticola + TNFa	0.89	n/a	n/a
T.forsythia + T.denticola + IL2 + IL13	0.89	n/a	n/a
T.forsythia + IL6 + IL13 + P.intermedia	0.89	8.4	(1.7, 40.8)
MMP9 + P.gingivalis + ICTP + C.rectus	0.89	n/a	n/a
T.forsythia + IL10 + IL13 + P.intermedia	0.89	7.5	(1.5, 36.3)
T.denticola + IL10 + IL2 + C.rectus	0.89	n/a	n/a
MMP8 + T.denticola + IL4 + F.nucleatum	0.89	15.3	(1.8, 125.5)
Calprotectin + OPG + T.forsythia + F.nucleatu	0.89	n/a	n/a
MMP9 + P.gingivalis + T.forsythia + IL2	0.89	n/a	n/a
MMP8 + T.forsythia + TNFa + C.rectus	0.89	10.1	(1.1, 84.8)
MMP9 + T.forsythia + ICTP + F.nucleatum	0.89	n/a	n/a
OPG + T.forsythia + T.denticola + IL4	0.89	n/a	n/a
Calprotectin + P.gingivalis + T.forsythia + IL13	0.89	n/a	n/a
OPG + T.forsythia + T.denticola + IL6	0.89	n/a	n/a
MMP9 + P.gingivalis + T.forsythia + IL10	0.89	n/a	n/a
MMP8 + OPG + T.forsythia + C.rectus	0.89	n/a	n/a
Calprotectin + T.forsythia + T.denticola + IL6	0.89	n/a	n/a
MMP9 + P.gingivalis + ICTP + F.nucleatum	0.89	n/a	n/a
OPG + T.denticola + TNFa + C.rectus	0.88	n/a	n/a
P.gingivalis + T.denticola + IL10 + IL13	0.88	n/a	n/a
T.forsythia + IL2 + TNFa + P.intermedia	0.88	13.4	(1.6, 111.0)
T.denticola + IL13 + TNFa + C.rectus	0.88	n/a	n/a
T.denticola + IL4 + TNFa + C.rectus	0.88	n/a	n/a
T.forsythia + IL1beta + IL10 + P.intermedia	0.88	7.5	(1.5, 36.3)
T.forsythia + IL4 + TNFa + P.intermedia	0.88	17.3	(2.1, 141.2)
T.forsythia + T.denticola + IL6 + IL2	0.88	n/a	n/a
T.forsythia + T.denticola + IL1beta + TNFa	0.88	19.5	(2.4, 158.2)
T.denticola + IL1beta + IL4 + C.rectus	0.88	n/a	n/a
Calprotectin + T.denticola + IL6 + F.nucleatu	0.88	n/a	n/a

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Signature	AUC	OR	95% CI
P.gingivalis + T.forsythia + IL6 + IL13	0.88	n/a	n/a
P.gingivalis + IL6 + IL13 + P.intermedia	0.88	17.3	(2.1, 141.2)
Calprotectin + T.forsythia + TNFa + F.nucleatum	0.88	n/a	n/a
MMP9 + T.forsythia + IL4 + F.nucleatum	0.88	11.7	(1.4, 97.4)
OPG + P.gingivalis + T.denticola + IL4	0.88	n/a	n/a
P.gingivalis + IL6 + TNFa + P.intermedia	0.88	13.4	(1.6, 111.0)
MMP9 + P.gingivalis + IL6 + F.nucleatum	0.88	n/a	n/a
MMP9 + P.gingivalis + IL10 + F.nucleatum	0.88	n/a	n/a
P.gingivalis + T.denticola + IL6 + IL13	0.88	n/a	n/a
T.forsythia + T.denticola + IL1beta + IL4	0.88	24.4	(3.0, 196.5)
T.forsythia + IL6 + IL10 + P.intermedia	0.88	9.5	(1.9, 45.6)
T.denticola + IL1beta + TNFa + C.rectus	0.88	n/a	n/a
MMP8 + P.gingivalis + IL10 + F.nucleatum	0.88	n/a	n/a
MMP8 + T.forsythia + IL10 + C.rectus	0.88	10.1	(1.1, 84.8)
MMP9 + P.gingivalis + IL6 + C.rectus	0.88	n/a	n/a
T.forsythia + T.denticola + IL10 + IL4	0.88	19.5	(2.4, 158.2)
T.forsythia + IL6 + IL1beta + P.intermedia	0.88	8.4	(1.7, 40.8)
MMP8 + T.forsythia + IL6 + C.rectus	0.88	11.7	(1.4, 97.4)
Calprotectin + P.gingivalis + T.forsythia + IL6	0.88	n/a	n/a
Calprotectin + T.forsythia + TNFa + C.rectus	0.88	n/a	n/a
MMP9 + T.forsythia + IL2 + F.nucleatum	0.88	n/a	n/a
OPG + P.gingivalis + T.denticola + IL1beta	0.88	n/a	n/a
OPG + P.gingivalis + T.denticola + IL2	0.88	n/a	n/a
T.forsythia + IL6 + ICTP + C.rectus	0.88	n/a	n/a
MMP8 + P.gingivalis + IL1beta + F.nucleatum	0.88	13.4	(1.6, 111.0)
MMP9 + OPG + P.gingivalis + C.rectus	0.88	11.7	(1.4, 97.4)
T.forsythia + T.denticola + IL4 + TNFa	0.88	21.8	(2.7, 176.5)
MMP8 + MMP9 + P.gingivalis + C.rectus	0.88	19.5	(2.4, 158.2)
MMP8 + T.forsythia + IL4 + F.nucleatum	0.88	13.4	(1.6, 111.0)
Calprotectin + T.denticola + IL2 + F.nucleatum	0.88	n/a	n/a
P.gingivalis + T.denticola + IL2 + IL13	0.88	n/a	n/a
P.gingivalis + IL13 + IL4 + P.intermedia	0.88	19.5	(2.4, 158.2)
MMP8 + T.forsythia + IL6 + F.nucleatum	0.88	11.7	(1.4, 97.4)
MMP9 + T.forsythia + IL6 + F.nucleatum	0.88	10.1	(1.1, 84.8)
P.gingivalis + T.denticola + IL1beta + IL13	0.88	n/a	n/a
P.gingivalis + IL6 + IL4 + P.intermedia	0.88	19.5	(2.4, 158.2)
T.forsythia + T.denticola + IL10 + IL2	0.88	n/a	n/a
Calprotectin + T.forsythia + IL6 + F.nucleatum	0.88	n/a	n/a
P.gingivalis + IL6 + ICTP + F.nucleatum	0.88	n/a	n/a
P.gingivalis + IL6 + IL1beta + P.intermedia	0.88	n/a	n/a
Calprotectin + T.forsythia + IL4 + F.nucleatum	0.87	n/a	n/a
MMP9 + P.gingivalis + IL1beta + F.nucleatum	0.87	11.7	(1.4, 97.4)
MMP9 + P.gingivalis + IL4 + C.rectus	0.87	11.7	(1.4, 97.4)
T.forsythia + T.denticola + IL6 + IL10	0.87	19.5	(2.4, 158.2)
T.forsythia + IL10 + IL4 + P.intermedia	0.87	17.3	(2.1, 141.2)
OPG + P.gingivalis + T.forsythia + IL6	0.87	n/a	n/a
OPG + P.gingivalis + T.denticola + TNFa	0.87	n/a	n/a
P.gingivalis + IL2 + IL13 + P.intermedia	0.87	11.7	(1.4, 97.4)
Calprotectin + T.denticola + IL10 + F.nucleatum	0.87	n/a	n/a
MMP9 + P.gingivalis + IL13 + C.rectus	0.87	n/a	n/a
T.forsythia + IL10 + IL2 + P.intermedia	0.87	10.1	(1.1, 84.8)
MMP8 + OPG + P.gingivalis + C.rectus	0.87	15.3	(1.8, 125.5)
Calprotectin + T.forsythia + IL2 + C.rectus	0.87	n/a	n/a
MMP9 + P.gingivalis + IL10 + C.rectus	0.87	n/a	n/a
T.forsythia + ICTP + IL13 + F.nucleatum	0.87	n/a	n/a
MMP8 + OPG + P.gingivalis + F.nucleatum	0.87	13.4	(1.6, 111.0)
MMP8 + P.gingivalis + IL6 + F.nucleatum	0.87	n/a	n/a
Calprotectin + T.denticola + IL13 + F.nucleatum	0.87	n/a	n/a
MMP9 + OPG + T.forsythia + F.nucleatum	0.87	n/a	n/a
MMP9 + P.gingivalis + IL2 + C.rectus	0.87	7.1	
T.forsythia + ICTP + IL2 + P.intermedia	0.89	8.5	
T.denticola + IL10 + IL4 + C.rectus	0.89	n/a	n/a
MMP8 + P.gingivalis + T.forsythia + IL10	0.89	n/a	n/a
Calprotectin + P.gingivalis + IL6 + C.rectus	0.89	n/a	n/a
Calprotectin + T.forsythia + T.denticola + IL10	0.89	n/a	n/a
MMP9 + OPG + T.forsythia + C.rectus	0.89	n/a	n/a
OPG + T.forsythia + T.denticola + IL1beta	0.89	n/a	n/a
T.forsythia + IL1beta + IL13 + P.intermedia	0.89	6.6	
T.forsythia + IL2 + IL13 + P.intermedia	0.89	11.7	(1.3, 32.2)
T.denticola + IL10 + TNFa + C.rectus	0.89	n/a	n/a
MMP8 + T.forsythia + TNFa + F.nucleatum	0.89	10.1	
Calprotectin + T.forsythia + T.denticola + TNFa	0.89	n/a	(1.1, 84.8)
Calprotectin + T.forsythia + ICTP + F.nucleatum	0.89	n/a	n/a
P.gingivalis + ICTP + IL13 + P.intermedia	0.89	n/a	n/a
P.gingivalis + IL10 + IL13 + P.intermedia	0.89	15.3	
MMP9 + P.gingivalis + T.forsythia + IL6	0.89	n/a	(1.8, 125.5)
OPG + T.forsythia + T.denticola + IL10	0.89	n/a	n/a
MMP8 + P.gingivalis + T.forsythia + IL6	0.88	n/a	n/a
Calprotectin + T.forsythia + T.denticola + IL1beta	0.88	n/a	n/a
OPG + T.forsythia + T.denticola + IL2	0.88	n/a	n/a

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Signature	AUC	OR	95% CI
P.gingivalis + ICTP + IL1beta + P.intermedia	0.88	n/a	n/a
T.denticola + IL1beta + IL13 + C.rectus	0.88	n/a	n/a
Calprotectin + T.forsythia + T.denticola + IL2	0.88	n/a	n/a
P.gingivalis + ICTP + TNFa + P.intermedia	0.88	n/a	n/a
MMP9 + T.forsythia + IL4 + C.rectus	0.88	11.7	n/a
T.forsythia + IL6 + ICTP + P.intermedia	0.88	10.1	(1.4, 97.4)
T.denticola + IL2 + IL13 + C.rectus	0.88	n/a	(1.1, 84.8)
MMP9 + T.forsythia + IL13 + F.nucleatum	0.88	8.5	n/a
OPG + T.forsythia + IL13 + P.intermedia	0.88	7.1	n/a
T.denticola + IL2 + TNFa + C.rectus	0.88	n/a	(3.0, 196.5)
P.gingivalis + ICTP + IL10 + P.intermedia	0.88	n/a	n/a
T.forsythia + T.denticola + IL1beta + IL13	0.88	15.3	n/a
MMP9 + T.forsythia + IL13 + F.nucleatum	0.88	19.5	(1.8, 125.5)
OPG + T.forsythia + IL13 + P.intermedia	0.88	7.1	n/a
P.gingivalis + IL1beta + IL13 + P.intermedia	0.88	n/a	(2.4, 158.2)
MMP8 + T.forsythia + IL13 + F.nucleatum	0.88	8.5	n/a
T.forsythia + T.denticola + IL2 + TNFa	0.88	n/a	(1.4, 97.4)
MMP8 + MMP9 + T.forsythia + C.rectus	0.88	19.5	n/a
MMP8 + T.forsythia + IL13 + C.rectus	0.88	8.5	(2.4, 158.2)
Calprotectin + T.forsythia + IL13 + F.nucleatum	0.88	n/a	n/a
OPG + T.denticola + IL1beta + C.rectus	0.88	n/a	n/a
T.denticola + IL1beta + IL2 + C.rectus	0.88	n/a	n/a
T.denticola + IL2 + IL4 + C.rectus	0.88	n/a	n/a
MMP8 + OPG + T.forsythia + F.nucleatum	0.88	n/a	n/a
MMP8 + T.forsythia + IL4 + C.rectus	0.88	13.4	n/a
Calprotectin + OPG + P.gingivalis + T.denticola	0.88	5.7	(1.6, 111.0)
T.forsythia + IL1beta + TNFa + P.intermedia	0.88	7.5	n/a
P.gingivalis + ICTP + IL2 + P.intermedia	0.88	n/a	(1.5, 36.3)
T.forsythia + IL10 + TNFa + P.intermedia	0.88	6.6	n/a
Calprotectin + P.gingivalis + T.denticola + IL13	0.88	n/a	(1.3, 32.2)
Calprotectin + T.forsythia + IL1beta + F.nucleatum	0.88	n/a	n/a
OPG + P.gingivalis + ICTP + P.intermedia	0.88	n/a	n/a
P.gingivalis + ICTP + IL4 + P.intermedia	0.88	n/a	n/a
T.forsythia + T.denticola + IL1beta + IL10	0.88	15.3	n/a
T.forsythia + T.denticola + IL10 + TNFa	0.88	13.4	(1.8, 125.5)
MMP8 + T.forsythia + IL2 + C.rectus	0.88	10.1	(1.6, 111.0)
Calprotectin + T.forsythia + IL13 + C.rectus	0.88	4.5	(1.1, 84.8)
T.forsythia + IL6 + TNFa + P.intermedia	0.88	6.6	(2.4, 158.2)
Calprotectin + OPG + P.gingivalis + T.forsythia	0.88	5.7	(1.3, 32.2)
T.forsythia + T.denticola + IL13 + TNFa	0.88	13.4	(1.8, 125.5)
T.denticola + IL13 + IL4 + C.rectus	0.88	n/a	(1.6, 111.0)
MMP9 + T.forsythia + IL6 + C.rectus	0.88	10.1	n/a
OPG + P.gingivalis + T.denticola + IL13	0.88	n/a	(1.1, 84.8)
OPG + T.forsythia + TNFa + P.intermedia	0.88	8.5	n/a
T.forsythia + T.denticola + IL6 + IL1beta	0.88	19.5	n/a
Calprotectin + P.gingivalis + T.denticola + IL6	0.88	n/a	(2.4, 158.2)
OPG + P.gingivalis + T.denticola + IL10	0.88	n/a	n/a
T.forsythia + T.denticola + IL1beta + IL2	0.88	n/a	n/a
MMP9 + T.forsythia + TNFa + C.rectus	0.88	8.5	n/a
MMP9 + T.forsythia + IL10 + C.rectus	0.88	10.1	n/a
OPG + T.denticola + IL4 + C.rectus	0.88	n/a	(1.1, 84.8)
T.forsythia + T.denticola + IL2 + IL4	0.88	n/a	n/a
OPG + P.gingivalis + T.denticola + IL6	0.88	n/a	n/a
P.gingivalis + T.denticola + IL13 + IL4	0.87	n/a	n/a
Calprotectin + P.gingivalis + T.denticola + IL10	0.87	n/a	n/a
P.gingivalis + IL6 + IL10 + P.intermedia	0.87	19.5	(2.4, 158.2)
P.gingivalis + IL6 + IL2 + P.intermedia	0.87	10.1	(1.1, 84.8)
MMP8 + T.forsythia + IL2 + F.nucleatum	0.87	n/a	n/a
Calprotectin + T.denticola + TNFa + F.nucleatum	0.87	n/a	n/a
MMP9 + T.forsythia + IL10 + F.nucleatum	0.87	11.7	(1.4, 97.4)
OPG + P.gingivalis + IL6 + P.intermedia	0.87	10.1	(1.1, 84.8)
OPG + T.forsythia + IL4 + P.intermedia	0.87	n/a	n/a
P.gingivalis + T.denticola + IL13 + TNFa	0.87	n/a	n/a
T.forsythia + IL1beta + IL2 + P.intermedia	0.87	10.1	(1.1, 84.8)
T.forsythia + IL1beta + IL4 + P.intermedia	0.87	19.5	(2.4, 158.2)
MMP8 + MMP9 + T.forsythia + F.nucleatum	0.87	17.3	(2.1, 141.2)
P.gingivalis + IL6 + ICTP + C.rectus	0.87	n/a	n/a
Calprotectin + P.gingivalis + T.denticola + IL2	0.87	n/a	n/a
Calprotectin + P.gingivalis + IL6 + F.nucleatum	0.87	n/a	n/a
P.gingivalis + IL1beta + IL10 + P.intermedia	0.87	n/a	n/a
T.forsythia + ICTP + IL13 + C.rectus	0.87	n/a	n/a
T.forsythia + IL6 + IL4 + P.intermedia	0.87	17.3	(2.1, 141.2)
MMP8 + P.gingivalis + IL1beta + C.rectus	0.87	11.7	(1.4, 97.4)
MMP8 + T.forsythia + IL10 + F.nucleatum	0.87	10.1	(1.1, 84.8)
MMP9 + P.gingivalis + IL1beta + C.rectus	0.87	10.1	(1.1, 84.8)
P.gingivalis + IL13 + TNFa + P.intermedia	0.87	11.7	(1.4, 97.4)
MMP9 + P.gingivalis + IL4 + F.nucleatum	0.87	13.4	(1.6, 111.0)

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Signature	AUC	OR	95% CI
T.forsythia + ICTP + TNFa + F.nucleatum	0.87	n/a	n/a
MMP8 + P.gingivalis + IL10 + C.rectus	0.87	n/a	n/a
Calprotectin + T.denticola + IL4 + F.nucleatum	0.87	n/a	n/a
OPG + T.denticola + IL13 + F.nucleatum	0.87	n/a	n/a
P.gingivalis + IL1beta + TNFa + P.intermedia	0.87	n/a	n/a
T.forsythia + IL6 + IL2 + P.intermedia	0.87	10.1	(1.1, 84.8)
T.denticola + IL2 + TNFa + F.nucleatum	0.87	n/a	n/a
MMP8 + MMP9 + P.gingivalis + F.nucleatum	0.87	19.5	(2.4, 158.2)
Calprotectin + P.gingivalis + ICTP + C.rectus	0.87	n/a	n/a
OPG + T.denticola + IL6 + F.nucleatum	0.87	n/a	n/a
MMP8 + P.gingivalis + TNFa + F.nucleatum	0.87	10.1	(1.1, 84.8)
OPG + P.gingivalis + IL1beta + P.intermedia	0.87	n/a	n/a
OPG + P.gingivalis + IL4 + P.intermedia	0.87	10.1	(1.1, 84.8)
P.gingivalis + T.forsythia + IL10 + IL13	0.87	21.8	(2.7, 176.5)
P.gingivalis + IL1beta + IL2 + P.intermedia	0.87	n/a	n/a
P.gingivalis + IL1beta + IL4 + P.intermedia	0.87	n/a	n/a
T.forsythia + IL6 + ICTP + F.nucleatum	0.87	n/a	n/a
MMP8 + P.gingivalis + IL13 + C.rectus	0.87	n/a	n/a
Calprotectin + T.denticola + IL1beta + F.nucleatum	0.87	n/a	n/a
MMP9 + P.gingivalis + IL13 + F.nucleatum	0.87	n/a	n/a
P.gingivalis + T.forsythia + IL6 + IL4	0.87	n/a	n/a
P.gingivalis + IL10 + TNFa + P.intermedia	0.87	13.4	(1.6, 111.0)
Calprotectin + P.gingivalis + T.forsythia + IL10	0.87	n/a	n/a
Calprotectin + P.gingivalis + IL10 + C.rectus	0.87	n/a	n/a
P.gingivalis + T.forsythia + ICTP + IL10	0.87	10.1	(1.1, 84.8)
P.gingivalis + IL4 + TNFa + P.intermedia	0.87	15.3	(1.8, 125.5)
MMP8 + P.gingivalis + IL6 + C.rectus	0.87	n/a	n/a
MMP8 + P.gingivalis + IL4 + F.nucleatum	0.87	15.3	(1.8, 125.5)
Calprotectin + P.gingivalis + T.denticola + IL1bet	0.87	n/a	n/a
Calprotectin + T.forsythia + IL2 + F.nucleatum	0.87	n/a	n/a
P.gingivalis + T.denticola + IL6 + IL1beta	0.87	n/a	n/a
P.gingivalis + T.denticola + IL6 + IL2	0.87	n/a	n/a
P.gingivalis + IL2 + IL4 + P.intermedia	0.87	13.4	(1.6, 111.0)
P.gingivalis + IL2 + TNFa + P.intermedia	0.87	11.7	(1.4, 97.4)
MMP8 + P.gingivalis + IL2 + F.nucleatum	0.87	11.7	(1.4, 97.4)
OPG + T.denticola + IL10 + F.nucleatum	0.87	n/a	n/a
P.gingivalis + IL10 + IL2 + P.intermedia	0.87	10.1	(1.1, 84.8)
T.denticola + IL2 + IL13 + F.nucleatum	0.87	n/a	n/a
Calprotectin + P.gingivalis + T.denticola + TNFa	0.87	n/a	n/a
MMP9 + P.gingivalis + IL2 + F.nucleatum	0.87	11.7	(1.4, 97.4)
P.gingivalis + T.forsythia + IL6 + IL1beta	0.87	n/a	n/a
P.gingivalis + T.denticola + IL10 + IL2	0.87	n/a	n/a
MMP8 + P.gingivalis + IL13 + F.nucleatum	0.87	n/a	n/a
OPG + T.denticola + IL2 + F.nucleatum	0.87	n/a	n/a
P.gingivalis + T.denticola + IL6 + IL10	0.87	n/a	n/a
P.gingivalis + T.denticola + IL6 + TNFa	0.87	n/a	n/a
MMP9 + OPG + P.gingivalis + F.nucleatum	0.87	10.1	(1.1, 84.8)
T.forsythia + IL2 + IL4 + P.intermedia	0.87	n/a	n/a
OPG + T.denticola + TNFa + F.nucleatum	0.87	n/a	n/a
P.gingivalis + T.denticola + IL6 + IL4	0.87	n/a	n/a
P.gingivalis + T.denticola + IL2 + TNFa	0.87	n/a	n/a
Calprotectin + T.forsythia + IL10 + F.nucleatum	0.87	n/a	n/a
P.gingivalis + T.forsythia + IL6 + IL10	0.87	n/a	n/a
Calprotectin + P.gingivalis + T.denticola + IL4	0.87	n/a	n/a
Calprotectin + P.gingivalis + IL10 + F.nucleatum	0.87	n/a	n/a
P.gingivalis + IL10 + IL4 + P.intermedia	0.87	17.3	(2.1, 141.2)
T.forsythia + ICTP + IL10 + C.rectus	0.87	n/a	n/a
P.gingivalis + T.denticola + IL10 + TNFa	0.86	n/a	n/a
P.gingivalis + T.forsythia + IL6 + IL2	0.86	n/a	n/a
P.gingivalis + T.denticola + IL1beta + IL10	0.86	n/a	n/a
P.gingivalis + T.denticola + IL1beta + IL2	0.86	n/a	n/a
Calprotectin + P.gingivalis + T.forsythia + IL4	0.86	n/a	n/a
Calprotectin + P.gingivalis + T.forsythia + TNFa	0.86	n/a	n/a
Calprotectin + P.gingivalis + T.forsythia + IL2	0.86	n/a	n/a
OPG + T.forsythia + ICTP + F.nucleatum	0.86	n/a	n/a
OPG + T.forsythia + ICTP + C.rectus	0.86	n/a	n/a
P.gingivalis + T.denticola + IL10 + IL4	0.86	n/a	n/a
P.gingivalis + T.forsythia + ICTP + IL2	0.86	n/a	n/a
P.gingivalis + T.denticola + IL2 + IL4	0.86	n/a	n/a
T.forsythia + ICTP + IL2 + F.nucleatum	0.86	n/a	n/a
P.gingivalis + T.forsythia + ICTP + IL4	0.86	15.3	(1.8, 125.5)
P.gingivalis + T.forsythia + IL1beta + IL13	0.86	n/a	n/a
P.gingivalis + T.forsythia + ICTP + TNFa	0.86	n/a	n/a
OPG + T.denticola + IL4 + F.nucleatum	0.86	n/a	n/a
Calprotectin + P.gingivalis + T.forsythia + IL1beta	0.86	n/a	n/a
T.forsythia + ICTP + IL4 + F.nucleatum	0.86	n/a	n/a
T.forsythia + ICTP + IL1beta + F.nucleatum	0.86	n/a	n/a
T.forsythia + ICTP + IL10 + F.nucleatum	0.86	n/a	n/a
T.forsythia + ICTP + TNFa + C.rectus	0.86	n/a	n/a
T.denticola + IL6 + IL2 + F.nucleatum	0.86	n/a	n/a
T.forsythia + IL1beta + IL13 + F.nucleatum	0.86	2.2	
T.forsythia + ICTP + IL4 + C.rectus	0.86	n/a	n/a
P.gingivalis + T.forsythia + IL2 + IL13	0.86	n/a	n/a
P.gingivalis + T.forsythia + IL13 + TNFa	0.86	n/a	n/a

1wo Salivary Biomarkers & 1wo Periodontal

Pathogens

Signature	AUC	OR	95% CI
T.forsythia + ICTP + IL1beta + C.rectus	0.86	n/a	n/a
P.gingivalis + T.forsythia + ICTP + IL1beta	0.86	n/a	n/a
T.denticola + IL1beta + IL2 + F.nucleatum	0.86	n/a	n/a
P.gingivalis + T.denticola + IL4 + TNFa	0.86	n/a	n/a
T.forsythia + IL6 + IL10 + C.rectus	0.86	10.1	(1.1, 84.8)
OPG + P.gingivalis + T.forsythia + IL2	0.86	n/a	n/a
P.gingivalis + T.denticola + IL1beta + IL4	0.86	n/a	n/a
T.forsythia + ICTP + IL2 + C.rectus	0.86	n/a	n/a
Calprotectin + P.gingivalis + IL13 + F.nucleatum	0.86	n/a	n/a
P.gingivalis + IL6 + TNFa + F.nucleatum	0.86	n/a	n/a
T.denticola + IL2 + IL4 + F.nucleatum	0.86	n/a	n/a
OPG + P.gingivalis + T.forsythia + IL4	0.86	10.1	(1.1, 84.8)
OPG + T.forsythia + IL6 + C.rectus	0.86	n/a	n/a
P.gingivalis + IL6 + IL13 + F.nucleatum	0.86	n/a	n/a
P.gingivalis + IL10 + IL13 + F.nucleatum	0.86	n/a	n/a
OPG + P.gingivalis + T.forsythia + TNFa	0.86	n/a	n/a
OPG + P.gingivalis + ICTP + C.rectus	0.84	n/a	n/a
P.gingivalis + T.forsythia + IL1beta + TNFa	0.84	n/a	n/a
P.gingivalis + T.forsythia + IL1beta + IL2	0.84	n/a	n/a
MMP8 + Calprotectin + P.intermedia + F.nucleatum	0.84	n/a	n/a
P.gingivalis + IL10 + TNFa + F.nucleatum	0.84	n/a	n/a
MMP8 + ICTP + P.intermedia + F.nucleatum	0.84	n/a	n/a
MMP8 + ICTP + P.intermedia + C.rectus	0.84	n/a	n/a
P.gingivalis + IL10 + IL2 + F.nucleatum	0.84	n/a	n/a
P.gingivalis + IL1beta + IL10 + F.nucleatum	0.84	n/a	n/a
P.gingivalis + IL10 + IL4 + F.nucleatum	0.84	n/a	n/a
P.gingivalis + IL13 + IL4 + F.nucleatum	0.83	n/a	n/a
P.gingivalis + IL1beta + IL4 + F.nucleatum	0.83	11.7	(1.4, 97.4)
P.gingivalis + IL2 + IL13 + F.nucleatum	0.83	n/a	n/a
P.gingivalis + IL2 + IL4 + F.nucleatum	0.83	10.1	(1.1, 84.8)
OPG + P.gingivalis + IL13 + F.nucleatum	0.83	n/a	n/a
P.gingivalis + IL4 + TNFa + F.nucleatum	0.83	10.1	(1.1, 84.8)
P.gingivalis + IL13 + TNFa + F.nucleatum	0.83	n/a	n/a
P.gingivalis + IL1beta + IL13 + F.nucleatum	0.83	n/a	n/a
MMP8 + IL1beta + P.intermedia + F.nucleatum	0.83	10.1	(1.1, 84.8)
OPG + P.gingivalis + IL10 + C.rectus	0.83	n/a	n/a
MMP8 + IL1beta + P.intermedia + C.rectus	0.82	n/a	n/a
P.gingivalis + IL10 + IL2 + C.rectus	0.82	n/a	n/a
P.gingivalis + IL2 + IL13 + C.rectus	0.82	n/a	n/a
OPG + P.gingivalis + IL13 + C.rectus	0.82	n/a	n/a
MMP8 + IL10 + P.intermedia + F.nucleatum	0.82	11.7	(1.4, 97.4)
MMP8 + IL6 + P.intermedia + F.nucleatum	0.82	5.7	(1.1, 28.3)
P.gingivalis + IL13 + IL4 + C.rectus	0.82	n/a	n/a
MMP9 + IL1beta + P.intermedia + C.rectus	0.82	n/a	n/a
MMP9 + ICTP + P.intermedia + C.rectus	0.82	10.1	(1.1, 84.8)
MMP8 + OPG + P.intermedia + F.nucleatum	0.82	n/a	n/a
OPG + P.gingivalis + IL4 + C.rectus	0.82	10.1	(1.1, 84.8)
MMP8 + IL13 + P.intermedia + C.rectus	0.82	n/a	n/a
P.gingivalis + IL2 + IL4 + C.rectus	0.82	10.1	(1.1, 84.8)
P.gingivalis + IL10 + TNFa + C.rectus	0.82	n/a	n/a
P.gingivalis + IL10 + IL4 + C.rectus	0.82	n/a	n/a
MMP8 + MMP9 + P.intermedia + C.rectus	0.82	21.8	(2.7, 176.5)
MMP8 + IL4 + P.intermedia + F.nucleatum	0.82	11.7	(1.4, 97.4)
MMP9 + IL1beta + P.intermedia + F.nucleatum	0.82	10.1	(1.1, 84.8)
P.gingivalis + IL13 + TNFa + C.rectus	0.82	n/a	n/a
MMP8 + MMP9 + P.intermedia + F.nucleatum	0.82	7.5	(1.5, 36.3)
MMP8 + OPG + P.intermedia + C.rectus	0.82	n/a	n/a
MMP8 + IL10 + P.intermedia + C.rectus	0.82	n/a	n/a
MMP8 + IL6 + P.intermedia + C.rectus	0.81	13.4	(1.6, 111.0)
P.gingivalis + IL1beta + IL4 + C.rectus	0.81	11.7	(1.4, 97.4)
MMP9 + IL4 + P.intermedia + F.nucleatum	0.81	11.7	(1.4, 97.4)
P.gingivalis + IL1beta + TNFa + C.rectus	0.81	8.5	(0.9, 73.0)
P.gingivalis + IL4 + TNFa + C.rectus	0.81	11.7	(1.4, 97.4)
MMP8 + IL4 + P.intermedia + C.rectus	0.81	n/a	n/a

Two Salivary Biomarkers & Two Periodontal Pathogens

P.gingivalis + T.forsythia + IL13 + IL4	0.86	24.4	(3.0, 196.5)
P.gingivalis + ICTP + IL10 + F.nucleatum	0.86	n/a	n/a
Calprotectin + P.gingivalis + IL13 + C.rectus	0.86	n/a	n/a
P.gingivalis + T.denticola + IL1beta + TNFa	0.85	n/a	n/a
OPG + T.forsythia + IL4 + C.rectus	0.85	n/a	n/a
OPG + T.forsythia + IL1beta + C.rectus	0.85	n/a	n/a
OPG + T.forsythia + IL13 + C.rectus	0.85	n/a	n/a
P.gingivalis + T.forsythia + IL10 + IL2	0.85	n/a	n/a
P.gingivalis + ICTP + IL1beta + F.nucleatum	0.85	n/a	n/a
OPG + P.gingivalis + IL6 + F.nucleatum	0.85	n/a	n/a
OPG + P.gingivalis + T.forsythia + IL1beta	0.85	n/a	n/a
T.denticola + IL1beta + IL4 + F.nucleatum	0.85	11.7	(1.4, 97.4)
OPG + T.forsythia + TNFa + C.rectus	0.85	n/a	n/a
P.gingivalis + IL6 + IL1beta + F.nucleatum	0.85	n/a	n/a
P.gingivalis + IL6 + IL13 + C.rectus	0.85	n/a	n/a
OPG + T.forsythia + IL2 + C.rectus	0.85	n/a	n/a
P.gingivalis + IL6 + IL10 + F.nucleatum	0.85	n/a	n/a
OPG + P.gingivalis + ICTP + F.nucleatum	0.85	n/a	n/a
T.denticola + IL10 + IL2 + F.nucleatum	0.85	n/a	n/a
T.denticola + IL4 + TNFa + F.nucleatum	0.85	10.1	(1.1, 84.8)
P.gingivalis + T.forsythia + IL10 + IL4	0.85	19.5	(2.4, 158.2)
P.gingivalis + IL6 + IL4 + F.nucleatum	0.85	n/a	n/a
P.gingivalis + IL6 + IL2 + F.nucleatum	0.85	n/a	n/a
P.gingivalis + ICTP + IL4 + F.nucleatum	0.85	n/a	n/a
P.gingivalis + ICTP + IL2 + F.nucleatum	0.85	n/a	n/a
OPG + T.forsythia + IL10 + C.rectus	0.85	n/a	n/a
P.gingivalis + T.forsythia + IL2 + IL4	0.85	n/a	n/a
OPG + P.gingivalis + IL6 + C.rectus	0.85	n/a	n/a
P.gingivalis + T.forsythia + IL1beta + IL10	0.85	n/a	n/a
T.forsythia + IL2 + IL4 + F.nucleatum	0.85	10.1	(1.1, 84.8)
P.gingivalis + T.forsythia + IL10 + TNFa	0.85	n/a	n/a
T.forsythia + IL2 + IL4 + C.rectus	0.85	11.7	(1.4, 97.4)
T.forsythia + IL1beta + IL4 + C.rectus	0.85	5.7	(1.1, 28.3)
T.forsythia + IL2 + TNFa + C.rectus	0.85	10.1	(1.1, 84.8)
T.forsythia + IL1beta + TNFa + C.rectus	0.85	10.1	(1.1, 84.8)
P.gingivalis + T.forsythia + IL2 + TNFa	0.84	n/a	n/a
P.gingivalis + IL6 + TNFa + C.rectus	0.84	n/a	n/a
P.gingivalis + IL6 + IL4 + C.rectus	0.84	n/a	n/a
P.gingivalis + ICTP + TNFa + F.nucleatum	0.84	n/a	n/a
MMP8 + Calprotectin + P.intermedia + C.rectus	0.84	n/a	n/a
P.gingivalis + IL6 + IL2 + C.rectus	0.84	n/a	n/a
P.gingivalis + IL6 + IL1beta + C.rectus	0.84	n/a	n/a
OPG + P.gingivalis + IL10 + F.nucleatum	0.84	n/a	n/a
P.gingivalis + ICTP + IL13 + F.nucleatum	0.84	n/a	n/a
T.forsythia + IL4 + TNFa + C.rectus	0.84	13.4	(1.6, 111.0)
P.gingivalis + ICTP + IL4 + C.rectus	0.84	n/a	n/a
P.gingivalis + T.forsythia + IL1beta + IL4	0.84	n/a	n/a
P.gingivalis + ICTP + IL2 + C.rectus	0.84	n/a	n/a
P.gingivalis + T.forsythia + IL4 + TNFa	0.84	n/a	n/a
P.gingivalis + ICTP + TNFa + C.rectus	0.84	n/a	n/a
Calprotectin + MMP9 + P.intermedia + C.rectus	0.84	n/a	n/a
P.gingivalis + IL6 + IL10 + C.rectus	0.84	n/a	n/a
Calprotectin + IL1beta + P.intermedia + F.nucleatum	0.81	n/a	n/a
Calprotectin + IL4 + P.intermedia + F.nucleatum	0.81	n/a	n/a
MMP9 + IL6 + P.intermedia + C.rectus	0.81	11.7	(1.4, 97.4)
MMP9 + IL13 + P.intermedia + C.rectus	0.81	n/a	n/a
MMP9 + OPG + P.intermedia + C.rectus	0.81	11.7	(1.4, 97.4)
MMP9 + IL10 + P.intermedia + C.rectus	0.81	n/a	n/a
Calprotectin + IL6 + P.intermedia + C.rectus	0.80	n/a	n/a
MMP9 + IL10 + P.intermedia + F.nucleatum	0.80	11.7	(1.4, 97.4)
MMP9 + IL4 + P.intermedia + C.rectus	0.80	n/a	n/a
MMP8 + ICTP + F.nucleatum + C.rectus	0.78	n/a	n/a
ICTP + IL4 + P.intermedia + F.nucleatum	0.78	n/a	n/a
ICTP + IL1beta + P.intermedia + F.nucleatum	0.78	n/a	n/a
MMP9 + ICTP + F.nucleatum + C.rectus	0.78	n/a	n/a
ICTP + IL10 + P.intermedia + F.nucleatum	0.78	n/a	n/a
ICTP + IL13 + P.intermedia + F.nucleatum	0.78	n/a	n/a
IL4 + TNFa + P.intermedia + C.rectus	0.77	6.6	(1.3, 32.2)
OPG + ICTP + P.intermedia + C.rectus	0.77	5.7	(1.1, 28.3)
MMP9 + IL6 + F.nucleatum + C.rectus	0.77	10.1	(1.1, 84.8)
MMP9 + OPG + F.nucleatum + C.rectus	0.76	10.1	(1.1, 84.8)
MMP9 + IL13 + F.nucleatum + C.rectus	0.76	n/a	n/a
Calprotectin + IL6 + F.nucleatum + C.rectus	0.76	n/a	n/a
Calprotectin + ICTP + F.nucleatum + C.rectus	0.76	n/a	n/a
MMP8 + MMP9 + F.nucleatum + C.rectus	0.76	8.4	(1.7, 40.8)
MMP9 + IL1beta + F.nucleatum + C.rectus	0.76	10.1	(1.1, 84.8)
MMP8 + IL10 + F.nucleatum + C.rectus	0.76	n/a	n/a

ROC Curves of Two Salivary Biomarkers & Two Periodontal Pathogens

Signature	AUC	OR	95% CI
MMP9 + IL10 + F.nucleatum + C.rectus	0.76	n/a	n/a
MMP9 + IL4 + F.nucleatum + C.rectus	0.76	10.1	(1.1, 84.8)
Calprotectin + IL13 + F.nucleatum + C.rectus	0.76	n/a	n/a
MMP8 + IL6 + F.nucleatum + C.rectus	0.76	11.7	(1.4, 97.4)
MMP8 + IL13 + F.nucleatum + C.rectus	0.76	n/a	n/a
MMP8 + IL4 + F.nucleatum + C.rectus	0.76	11.7	(1.4, 97.4)
MMP8 + IL1beta + F.nucleatum + C.rectus	0.76	11.7	(1.4, 97.4)
IL13 + IL4 + P.intermedia + C.rectus	0.76	5.7	(1.1, 28.3)
IL6 + IL4 + P.intermedia + C.rectus	0.76	11.7	(1.4, 97.4)
MMP8 + OPG + F.nucleatum + C.rectus	0.75	13.4	(1.6, 111.0)
IL10 + IL4 + P.intermedia + C.rectus	0.75	5.7	(1.1, 28.3)
IL2 + IL4 + P.intermedia + C.rectus	0.75	5.7	(1.1, 28.3)
IL6 + IL13 + P.intermedia + C.rectus	0.75	10.1	(1.1, 84.8)
IL1beta + IL4 + P.intermedia + C.rectus	0.75	5.7	(1.1, 28.3)
OPG + IL4 + P.intermedia + C.rectus	0.75	5.7	(1.1, 28.3)
IL6 + IL10 + P.intermedia + C.rectus	0.74	13.4	(1.6, 111.0)
OPG + IL6 + P.intermedia + C.rectus	0.73	11.7	(1.4, 97.4)
IL6 + ICTP + F.nucleatum + C.rectus	0.73	n/a	n/a
ICTP + IL1beta + F.nucleatum + C.rectus	0.71	n/a	n/a
ICTP + IL4 + F.nucleatum + C.rectus	0.70	n/a	n/a
ICTP + TNFa + F.nucleatum + C.rectus	0.70	n/a	n/a
ICTP + IL10 + F.nucleatum + C.rectus	0.70	n/a	n/a
ICTP + IL13 + F.nucleatum + C.rectus	0.70	n/a	n/a
OPG + ICTP + F.nucleatum + C.rectus	0.69	n/a	n/a
ICTP + IL2 + F.nucleatum + C.rectus	0.69	n/a	n/a
OPG + IL6 + F.nucleatum + C.rectus	0.69	10.1	(1.1, 84.8)

NOTE: N/A given for values where all patients were correctly identified giving "infinite" odds ratio

* All non-significant AUC and OR are not shown