SUPPLEMENTARY FILES

Supplementary Table 1. Agreement among three observers demonstrated with Fleiss Kappa statistics.

Interobserver Agreement (Fleiss Kappa)																
		-	11. 61.			Periodontal Status										
No		100	th Sta	itus	-		Stage Patte									
	A/P	М	R	S	E	Surface	A/P	1	2	3	4	а	b	С		
18	0.96	0.96	1.00	*	1.00	Distal	1.00	0.96	1.00	1.00	1.00	1.00	0.97	*		
10	0.90	0.90	1.00		1.00	Mesial	0.90	0.96	1.00	1.00	*	1.00	0.97	*		
17	0.95	0.95	0.97	1.00	0.95	Distal	1.00	0.95	1.00	1.00	0.90	1.00	0.94	1.00		
		0.55	0.57	1.00	0.55	Mesial	0.94	0.98	1.00	1.00	0.75	*	0.97	*		
16	0.94	0.94	1.00	0.93	1.00	Distal	1.00	0.96	0.95	1.00	1.00	*	0.98	1.00		
10	0.94 0.94 1.00 0	0.55	1.00	Mesial	1.00	0.93	0.90	1.00	*	*	0.96	*				
15	0.96	0.95	1.00	0.95	1.00	Distal	1.00	0.98	0.96	1.00	0.74	*	0.97	*		
	13 0.90	0.55	1.00	0.55	1.00	Mesial	0.97	1.00	1.00	*	0.00	*	0.97	*		
14	0.93	1.00	1.00	0.79	0.96	Distal	1.00	1.00	1.00	1.00	1.00	*	1.00	1.00		
		1.00	1.00	0.73	0.50	Mesial	0.98	1.00	1.00	*	*	*	1.00	*		
13	0.95	0.89	1.00	1.00	1.00	Distal	1.00	0.94	0.95	1.00	1.00	*	1.00	1.00		
		0.03	1.00			Mesial	0.98	0.97	0.96	*	0.00	*	0.98	*		
12	0.94	1.00	1.00	0.89	1.00	Distal	1.00	0.95	0.92	1.00	1.00	*	1.00	*		
						Mesial	1.00	0.95	0.96	1.00	*	*	0.98	1.00		
11	0.89	0.87	1.00	0.87	1.00	Distal	1.00	0.98	1.00	1.00	1.00	*	0.98	1.00		
		0.07				Mesial	1.00	0.96	0.96	1.00	0.00	*	0.97	1.00		
28	0.93	0.93	1.00	*	1.00	Distal	1.00	0.93	1.00	*	*	*	0.96	*		
						Mesial	1.00	0.95	1.00	1.00	1.00	*	0.97	*		
27	0.95	0.95	0.98	1.00	0.96	Distal	0.96	0.93	1.00	1.00	*	0.00	0.93	0.00		
		0.55	0.50	1.00		Mesial	0.98	0.96	1.00	1.00	1.00	*	0.95	0.00		
26	0.94	0.96	0.97	0.87	1.00	Distal	0.94	0.95	1.00	1.00	*	*	0.96	*		
	-					Mesial	1.00		0.97			*	0.98	*		
25	0.96	0.94	1.00	0.90	1.00	Distal	0.98	1.00	1.00	1.00	*	*	1.00	*		
	-					Mesial	1.00	0.96	0.95	*	1.00	*	1.00	*		
24	0.90	1.00	1.00	0.81	0.94	Distal	1.00	1.00		*	*	*	1.00	*		
						Mesial	1.00	1.00	1.00	*	1.00	*	1.00	1.00		
23	0.93	0.79	1.00	1.00	0.96	Distal	0.98	1.00	1.00	*	*	*	1.00	**		

ĺ						Mesial	1.00	1.00	0.92	0.80	1.00	*	0.98	1.00
	_				<u>_</u>	Distal	0.98	1.00	1.00	1.00	*	*	1.00	1.00
22	0.91	1.00	1.00	0.89	0.93	Mesial	1.00	0.98	1.00	1.00	1.00	*	0.98	1.00
21 0.88						Distal	1.00	0.98	1.00	1.00	*	*	0.98	1.00
	0.88	0.87	1.00	0.91	0.91	Mesial	1.00	0.96	0.97	1.00	0.87	*	0.97	1.00
			4.00			Distal	0.97	0.97	1.00	1.00	**	*	0.98	**
38	0.96	0.97	1.00	*	0.98	Mesial	0.97	0.98	1.00	1.00	1.00	*	0.98	**
27	0.04	0.07	0.05	0.01	0.05	Distal	0.97	0.97	1.00	*	*	*	0.97	**
37	0.94	0.97	0.95	0.91	0.95	Mesial	0.98	0.96	1.00	*	1.00	*	0.96	1.00
26	0.05	1 00	0.07	0.02	0.00	Distal	0.96	0.94	0.94	*	*	*	0.96	1.00
36	0.95	1.00	0.97	0.92	0.80	Mesial	0.98	0.95	1.00	*	1.00	*	0.95	1.00
25	0 03	0 02	1 00	1.00	0.04	Distal	0.97	0.94	0.96	*	0.00	*	0.94	1.00
	35 0.93 0.92 1.00 1	1.00	0.94	Mesial	0.98	0.96	1.00	*	1.00	1.00	0.97	1.00		
34	0.95	1.00	1.00	0.84	0.94	Distal	0.93	0.98	1.00	*	*	1.00	0.98	1.00
J4		1.00	1.00	0.04	<u> </u>	Mesial	1.00	1.00	1.00	*	1.00	*	1.00	1.00
33	0.91	0.87	1.00	1.00	0.93	Distal	0.98	0.98	0.94	1.00	0.00	*	0.98	1.00
		0.07	1.00	1.00	0.55	Mesial	1.00	1.00	1.00	1.00	0.85	*	0.98	1.00
32	0.91	0.95	1.00	0.91	0.80	Distal	0.96	1.00	1.00	1.00	1.00	*	1.00	1.00
		0.55	1.00	0.51		Mesial	1.00	0.98	0.91	1.00	1.00	*	1.00	1.00
31	0.92	0.91	1.00	0.94	1.00	Distal	1.00	1.00	1.00	1.00	1.00	*	0.98	0.90
						Mesial	0.96	1.00	1.00	1.00	1.00	*	0.98	0.90
48	0.95	0.96	0.92	*	0.98	Distal	0.97	0.70	1.00	1.00	0.00	*	0.92	*
						Mesial	0.94	0.94	1.00	1.00	*	*	0.96	*
47	0.97	0.98	0.91	0.91	1.00	Distal	0.98	0.94	0.95	*	1.00	*	0.97	*
	_					Mesial	0.95	0.95	0.90	*	*	*	0.96	1.00
46	0.95	1.00	0.87	0.91	1.00	Distal	0.98	0.95	1.00	1.00	0.75	*	0.95	1.00
	_				_	Mesial	_	0.95		1.00	*	1.00		0.43
45	0.95	0.90	1.00	1.00	1.00	Distal		0.94		1.00	0.23	1.00	0.90	1.00
						Mesial	0.98		1.00	1.00	0.75	1.00	0.98	1.00
44	0.95	0.95	1.00	0.91	1.00	Distal	1.00		1.00	1.00	1.00	1.00	1.00	1.00
	_				_	Mesial	0.98		1.00	1.00	*	*	1.00	1.00
43	0.94	0.87	1.00	1.00	1.00	Distal	1.00		1.00	1.00	0.75	*	0.98	1.00
	_				_	Mesial	_	0.98	0.90	1.00	*		1.00	1.00
42	0.94	0.94	1.00	0.93	1.00	Distal	1.00	0.98	1.00	1.00	0.00	*	0.98	0.85
	_				<u> </u>	Mesial	_		1.00	1.00	0.00	*	0.98	0.85
41	0.94	0.90	1.00	1.00	1.00	Distal			1.00		1.00	*	1.00	1.00
A /D	<u> </u>	0.50			_	Mesial	0.95	1.00	1.00	1.00	1.00	*	1.00	1.00

A/P. Absence/Presence; a. Vertical; b. Horizontal; c. Mixed

^{*:} No measures of association are computed for the cross tabulation of X * Y. At least one variable in each 2-way table upon which measures of association are computed is a constant.

Supplementary Table 2. Agreement between the ground truth and model's results are demonstrated with Cohen's Kappa coefficients.

Ground Truth vs AI Software (Cohen's Kappa)

		Tod	oth Sta	atus		Periodontal Status										
No		100	otii Ste	itus			Stage Pattern									
	A/P	М	R	S	E	Surface	A/P	1	2	3	4	а	b	С		
10	0.06	0.96	1.00	1.00	1.00	Distal	1.00	1.00	1.00	1.00	1.00	1.00	1.00	*		
18	0.96	0.90	1.00	1.00	1.00	Mesial	1.00	1.00	1.00	1.00	*	1.00	1.00	*		
17	0.95	0.93	1.00	1.00	1.00	Distal	0.94	1.00	0.90	1.00	1.00	1.00	0.97	1.00		
	0.55	0.55	1.00	1.00	1.00	Mesial	0.94	1.00	0.90	1.00	1.00	*	0.97	*		
16	0.91	0.91	0.95	0.88	1.00	Distal	0.97	1.00	1.00	1.00	1.00	*	1.00	1.00		
						Mesial	0.97	0.97	1.00	1.00	*	*	0.97	*		
15	0.94	0.93	1.00	0.92	1.00	Distal	0.95	1.00	0.94	1.00	0.80	*	0.95	*		
						Mesial	0.92	1.00	0.85	*	0.00	*	0.91	*		
14	14 0.93 1.00 1.00	1.00	1.00	0.66	1.00	Distal	0.93	1.00	0.93	1.00	1.00	*	0.97	0.00		
				Mesial	0.92	1.00	0.92	*	*	*	0.96	*				
13 0.9	0.93	0.82	0.85	1.00	1.00	Distal	0.96	1.00	1.00	1.00	1.00	*	1.00	0.00		
						Mesial	0.97	1.00	1.00	*	0.00	*	0.97	*		
12	0.85	1.00	1.00	0.71	1.00	Distal	0.94	1.00	0.94	1.00	1.00	*	0.97			
						Mesial	0.95	1.00	0.94	1.00		*	0.97	1.00		
11	0.89	0.79	0.90	1.00	1.00	Distal	0.95	1.00 0.97	0.94	1.00	1.00	*	0.97	1.00		
						Mesial	0.95	1.00	0.94	1.00	0.00 *	*	0.98	1.00		
28	0.96	0.96	1.00	*	1.00	Distal Mesial	0.94	1.00	0.85	1.00	1.00	*	0.95	*		
	0.92					Distal	0.94	1.00	0.95	1.00	*	0.00	0.92	0.00		
27		0.92	0.83	1.00	0.94	Mesial	0.95	1.00	0.95	1.00	1.00	*	0.95	0.00		
			0.78	0.94		Distal	1.00	1.00	1.00	1.00	*	*	1.00	*		
26	0.91	0.94			1.00	Mesial	1.00	1.00	1.00	1.00	0.80	*	0.97	*		
						Distal	0.94	1.00	0.94	1.00	*	*	0.97	*		
25	0.91	1.00	0.90	0.82	1.00	Mesial	0.92		0.93	*	1.00	*	0.96	*		
						Distal	0.93	1.00	0.94	*	*	*	0.97	*		
24	0.89	1.00	0.85	0.71	1.00	Mesial	0.93	1.00	0.94	*	1.00	*	1.00	0.96		
	0.02	0.00	0.05	1 00	1.00	Distal	0.93	1.00	0.92	*	*	*	0.96	*		
23	0.93	0.66	0.85	1.00	1.00	Mesial	0.95	1.00	0.94	1.00	1.00	*	0.98	1.00		
22	0.01	1.00	1 00	0.82	1 00	Distal	0.95	1.00	0.92	1.00	*	*	0.97	1.00		
	0.91	1.00	1.00	0.02	1.00	Mesial	0.95	1.00	0.94	1.00	1.00	*	0.97	1.00		
21	<u>0</u> 01	0.79	በ ያበ	1 00	1.00	Distal	0.95	1.00	0.94	1.00	*	*	0.98	1.00		
	0.51	0.79	0.00	1.00	1.00	Mesial	0.95	1.00	0.95	1.00	1.00	*	0.98	1.00		
38	0 94	0.95	0 85	*	0.97	Distal	0.95	0.95	1.00	1.00	*	*	0.96	*		
	0.94	0.55	0.05		0.57	Mesial	0.96	0.97	1.00	1.00	1.00	*	0.97	*		

37	0.04	0.95	0.06	0.85	1.00	Distal	0.95	0.97	1.00	*	*	*	0.98	*
	0.94	0.93	0.90	0.83	1.00	Mesial	0.95	0.98	1.00	*	1.00	*	0.98	1.00
36	0.95	1.00	1.00	0.88	1.00	Distal	1.00	1.00	1.00	*	*	*	1.00	1.00
	0.55	1.00	1.00	0.88	1.00	Mesial	1.00	1.00	1.00	*	1.00	*	1.00	1.00
35	0.93	0.88	1.00	1.00	1.00	Distal	0.95	0.98	1.00	*	0.00	*	0.96	1.00
	0.55	0.00	1.00	1.00	1.00	Mesial	0.97	0.97	1.00	*	1.00	1.00	0.97	1.00
34	0.92	1.00	1.00	0.74	1.00	Distal	0.98	0.97	1.00	*	*	1.00	0.97	1.00
	0.52	1.00	1.00	0.74	1.00	Mesial	0.97	0.97	1.00	*	1.00	*	0.97	1.00
33	O 01	0.79	1.00	1.00	1.00	Distal	0.97	0.97	1.00	1.00	0.00	*	0.94	1.00
	0.51	0.75	1.00	1.00	1.00	Mesial	0.97	0.97	1.00	1.00	0.80	*	0.94	1.00
32	O 01	0.92	1.00	0.85	1.00	Distal	0.94	0.97	1.00	1.00	1.00	*	0.97	1.00
	0.51	0.52	1.00	0.85	1.00	Mesial	0.95	0.94	0.85	1.00	1.00	*	0.97	1.00
31	0 92	0.94	1.00	0.90	1.00	Distal	0.94	0.97	1.00	1.00	1.00	*	0.94	0.85
	0.52	0.54	1.00	0.50	1.00	Mesial	0.94	0.97	1.00	1.00	1.00	*	0.94	0.85
48	0 92	0.91	0.85	*	1.00	Distal	0.95	0.56	1.00	1.00	0.00	*	0.92	*
	0.52				1.00	Mesial	0.91	0.96	1.00	1.00	*	*	0.97	*
47	0.95	0.96	0.90	0.85	1.00	Distal	0.94	0.97	1.00	*	1.00	*	0.98	*
	0.55	0.50	0.50	0.05	1.00	Mesial	0.95	1.00	0.93	*	*	*	0.98	1.00
46	0.91	1.00	0.89	0.81	1.00	Distal	0.94	1.00	0.88	1.00	0.66	*	0.98	1.00
	0.51	1.00	0.05	0.01	1.00	Mesial	0.94	0.97	1.00	1.00	*	1.00	0.98	0.90
45	0.93	0.85	0.90	1.00	1.00	Distal	0.95	0.91	0.85	1.00	-0.03	1.00	0.87	1.00
	0.55	0.05	0.50	1.00	1.00	Mesial	0.97	1.00	1.00	1.00	-0.01	1.00	0.97	1.00
44	0.93	0.92	0.88	0.85	1.00	Distal	0.97	1.00	1.00	1.00	0.66	1.00	1.00	1.00
	0.55	0.52	0.00	0.05	1.00	Mesial	0.97	0.97	1.00	1.00	*	*	0.97	1.00
43	0.91	0.79	0.85	1.00	1.00	Distal	0.97	0.97	1.00	1.00	0.66	*	0.95	1.00
	0.51	0.75	0.00	1.00		Mesial	0.97	0.97	1.00	1.00	*	*	0.97	1.00
42	0.91	0.90	1.00	0.88	1.00	Distal	0.97	0.94	1.00	1.00	0.00	*	0.94	0.80
						Mesial	0.95	0.94	1.00	1.00	0.00	*	0.94	0.80
41	0.91	0.85	1.00	1.00	1.00	Distal	0.95	0.97	1.00	1.00	1.00	*	0.97	1.00
						Mesial	0.95	0.97	1.00	1.00	1.00	*	0.97	1.00

A/P. Absence/Presence; a. Vertical; b. Horizontal; c. Mixed

^{*}: No measures of association are computed for the cross tabulation of X * Y. At least one variable in each 2-way table upon which measures of association are computed is a constant.