



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

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Table A The associated factors, amount of EARR and percentage of EARR of 564 teeth

idno	Sex	Age	Overjet	Overbite	Abnormal root shape	Trauma	Tongue trusting habit	Allergic condition	Type of malocclusion	Tx plan	Bracket type	Tx duration	EARR (mm)	Percentage of EARR (%)
1	female	18	0	0	no	no	no	no	Class I	Ext	Standard bkt	31	3.57	19.21
2	female	18	3	3	no	no	no	no	Class I	Ext	Preadj bkt	24	2.43	13.88
3	female	14	1	1	no	no	no	no	Class I	Non-ext	Standard bkt	22	3.2	20.09
4	female	14	9	3	no	no	yes	no	Class II	Ext	Standard bkt	39	2.7	13.87
5	female	19	4.5	4	no	no	yes	no	Class I	Ext	Standard bkt	45	2.48	19.15
6	female	17	3	2	no	no	no	yes	Class I	Ext	Preadj bkt	34	2.86	22.5
7	female	19	2.5	2	no	no	no	yes	Class I	Ext	Preadj bkt	31	1.08	8.06
8	female	14	5	2	no	no	no	no	Class I	Ext	Preadj bkt	28	2.11	11.14
9	female	17	-3	5	no	no	yes	yes	Class III	Ext	Preadj bkt	47	1	6.27
10	female	13	5	3	no	no	yes	no	Class II	Ext	Preadj bkt	56	2.79	14.38
11	female	20	3	4	no	no	no	no	Class I	Non-ext	Standard bkt	25	0.38	2.28
12	female	16	3	8	no	no	no	no	Class II	Ext	Standard bkt	28	1.22	8.7
13	female	18	3.5	2	no	no	no	no	Class I	Ext	Standard bkt	23	0.91	5.18
14	female	12	11	5	no	no	yes	no	Class II	Ext	Preadj bkt	28	1.3	8.6
15	female	18	5	4	no	yes	yes	no	Class I	Ext	Standard bkt	24	0.6	3.86
16	female	13	1	0	no	no	yes	no	Class I	Ext	Standard bkt	25	1.95	11.1
17	female	12	-2	4	no	no	yes	no	Class III	Ext	Preadj bkt	28	1.6	8.94
18	female	15	-1	2	no	no	no	no	Class III	Non-ext	Standard bkt	12	1.36	8.36
19	female	12	-1.5	5	no	no	no	no	Class III	Non-ext	Preadj bkt	31	2.59	1.74
20	female	15	-2	3.5	no	no	no	no	Class I	Ext	Standard bkt	30	0.18	1.3
21	female	15	1	1	no	no	yes	no	Class I	Non-ext	Preadj bkt	41	1.37	9.01
22	female	13	4	4	no	no	yes	no	Class I	Ext	Standard bkt	25	0.06	0.37
23	female	14	8	4	no	no	yes	no	Class II	Ext	Preadj bkt	28	-0.84	-5.9
24	female	13	9	4	no	no	yes	no	Class II	Ext	Standard bkt	42	1.38	8.06
25	female	16	2	2	no	no	no	no	Class I	Ext	Preadj bkt	26	0.07	0.53
26	female	15	4	5	no	no	yes	no	Class I	Ext	Preadj bkt	23	1.19	7.54
27	female	15	1	2	yes	no	no	yes	Class I	Ext	Preadj bkt	20	0.64	4.34
28	female	20	4	2	no	no	yes	no	Class I	Ext	Standard bkt	28	1.95	13.78
29	female	13	4.5	3	yes	no	yes	no	Class I	Ext	Preadj bkt	26	2.8	14
30	female	16	4	3	no	no	yes	no	Class I	Ext	Preadj bkt	42	1.73	11.02
31	female	14	4	2	no	no	no	no	Class I	Ext	Preadj bkt	18	1.83	10.27
32	female	13	8	5	no	no	yes	no	Class I	Ext	Standard bkt	32	1.42	7.82

Table A The associated factors, amount of EARR and percentage of EARR of 564 teeth (continued)

idno	Sex	Age	Overjet	Overbite	Abnormal root shape	Trauma	Tongue trusting habit	Allergic condition	Type of malocclusion	Tx plan	Bracket type	Tx duration	EARR (mm)	Percentage of EARR (%)
33	female	13	6	3.5	no	no	no	no	Class I	Ext	Preadj bkt	31	0.66	4.93
34	female	20	3	1	yes	no	yes	no	Class I	Ext	Preadj bkt	32	1.89	9.96
35	female	17	-5	3	no	no	yes	yes	Class III	Ext	Preadj bkt	27	5.04	26.12
36	female	13	2	0.5	no	no	yes	no	Class I	Ext	Standard bkt	38	1.07	6.43
37	female	21	0	0	no	no	no	no	Class I	Non-ext	Standard bkt	13	0.47	3.17
38	female	17	2	4	no	no	no	yes	Class I	Ext	Preadj bkt	24	1.03	6.78
39	female	15	6	3	no	no	yes	no	Class I	Ext	Standard bkt	22	1.32	7.74
40	female	11	5	3	no	no	no	no	Class I	Ext	Standard bkt	23	2.21	13.79
41	female	12	5	3	no	no	no	no	Class I	Ext	Preadj bkt	49	0.71	4.85
42	female	17	1	1	no	no	yes	no	Class I	Ext	Standard bkt	8	0.4	2.64
43	female	25	5.5	3	no	no	yes	no	Class I	Non-ext	Preadj bkt	21	0.04	0.25
44	female	17	-2	2	no	no	yes	no	Class III	Ext	Preadj bkt	23	0.03	0.21
45	female	16	1	1	no	no	no	no	Class I	Ext	Preadj bkt	27	2.47	14.2
46	female	22	8	3	yes	no	yes	no	Class II	Ext	Preadj bkt	31	1.48	8.55
47	female	16	2	1	no	no	yes	no	Class I	Non-ext	Preadj bkt	30	0.14	0.79
48	female	18	6.5	4	no	no	no	no	Class I	Ext	Preadj bkt	27	0.69	4.05
49	female	11	5	3	no	no	no	yes	Class II	Ext	Standard bkt	26	0.15	1.13
50	female	17	-1	0	no	no	yes	yes	Class III	Ext	Standard bkt	32	2.33	14.32
51	female	13	7	5	no	no	no	no	Class II	Ext	Preadj bkt	41	2.02	12.06
52	female	21	4	5	no	no	no	yes	Class I	Non-ext	Preadj bkt	39	1.95	16.88
53	female	32	6	0	no	no	yes	no	Class I	Non-ext	Standard bkt	16	0.41	2.65
54	female	16	4.5	4	no	no	yes	no	Class I	Ext	Standard bkt	22	2.22	13.49
55	female	22	7	3	no	no	no	no	Class II	Non-ext	Preadj bkt	24	2.19	11.51
56	female	15	5	4	no	no	no	no	Class I	Ext	Standard bkt	45	1.04	5.73
57	female	13	5.5	4	no	no	yes	no	Class II	Ext	Standard bkt	27	0.06	0.35
58	female	12	6	4	no	no	yes	no	Class I	Ext	Preadj bkt	29	1.71	8.9
59	female	12	6	3	no	no	yes	no	Class II	Ext	Standard bkt	28	0.47	3.17
60	female	18	2	1	no	no	no	no	Class I	Ext	Preadj bkt	22	0.91	4.96
61	female	16	5	5	no	no	no	no	Class I	Ext	Standard bkt	29	1.64	11.68
62	female	12	5	3	no	no	no	no	Class I	Ext	Standard bkt	23	0.26	1.94
63	female	17	0	0	no	no	no	no	Class I	Ext	Standard bkt	28	0.31	2.12
64	male	10	0.5	1	no	no	no	no	Class I	Ext	Standard bkt	19	0.97	6.63

Table A The associated factors, amount of EARR and percentage of EARR of 564 teeth (continued)

idno	Sex	Age	Overjet	Overbite	Abnormal root shape	Trauma	Tongue trusting habit	Allergic condition	Type of malocclusion	Tx plan	Bracket type	Tx duration	EARR (mm)	Percentage of EARR (%)
65	male	12	6	3	no	no	no	no	Class I	Ext	Standard bkt	23	0.49	2.73
66	male	14	4	3	no	no	no	no	Class I	Non-ext	Standard bkt	12	0.8	4.57
67	male	16	4	3	no	no	no	no	Class I	Non-ext	Standard bkt	27	0.81	4.74
68	male	14	-2	2	no	no	no	no	Class III	Ext	Preadj bkt	37	0.59	4.26
69	male	15	10	5	no	yes	no	no	Class II	Ext	Preadj bkt	35	6.76	39.89
70	male	14	3.5	7	no	no	no	no	Class II	Non-ext	Standard bkt	28	0.03	0.17
71	male	17	3	3	no	no	no	yes	Class I	Non-ext	Preadj bkt	47	4.34	23.89
72	male	22	2	3	no	no	no	no	Class I	Ext	Standard bkt	37	2.41	21.66
73	male	12	1	2	yes	no	yes	no	Class I	Non-ext	Preadj bkt	20	0.01	0.08
74	male	16	2	1.5	no	no	no	no	Class I	Ext	Preadj bkt	32	4.3	21.47
75	male	13	5	5	no	yes	yes	no	Class I	Non-ext	Preadj bkt	33	0.13	0.81
76	male	14	6	3.5	no	no	no	yes	Class I	Ext	Preadj bkt	25	0.26	1.72
77	male	18	8	6	no	no	no	no	Class I	Ext	Standard bkt	27	0.1	0.66
78	male	13	5.5	2	no	no	yes	no	Class I	Ext	Preadj bkt	26	0.03	0.15
79	male	14	0	0	no	no	no	no	Class I	Non-ext	Preadj bkt	11	0.84	4.5
80	male	18	4	2	no	no	no	no	Class I	Ext	Preadj bkt	21	0.2	1.25
81	male	17	5	4	no	yes	no	no	Class I	Ext	Standard bkt	29	3.33	20.63
82	male	21	4	3	no	no	no	no	Class I	Ext	Preadj bkt	26	1.25	7.09
83	male	18	3.5	2	no	no	no	no	Class I	Ext	Preadj bkt	18	0.72	3.7
84	male	15	7	6	no	no	no	no	Class I	Ext	Preadj bkt	46	1.93	12.67
85	male	11	6	4	no	no	yes	no	Class II	Non-ext	Standard bkt	18	0.05	0.45
86	male	15	6	3	no	no	no	no	Class I	Ext	Standard bkt	19	1.87	10.56
87	male	19	9	5	no	no	no	yes	Class I	Non-ext	Preadj bkt	29	0.93	4.41
88	male	16	2	3	no	no	yes	yes	Class I	Non-ext	Standard bkt	55	0.51	4.37
89	male	13	6	5	no	no	no	no	Class II	Ext	Standard bkt	45	2.84	14.57
90	male	14	6.5	3	no	no	yes	yes	Class II	Ext	Standard bkt	21	2.07	11.23
91	male	18	8	5	no	no	no	no	Class I	Ext	Preadj bkt	40	1.18	7.27
92	male	14	4	4	no	no	no	yes	Class I	Non-ext	Standard bkt	32	0.69	5.72
93	male	16	1	2	no	no	no	no	Class I	Non-ext	Standard bkt	23	0.29	1.91
94	male	15	4	5	no	no	no	no	Class I	Non-ext	Standard bkt	12	0.93	4.73
95	male	15	5	7	no	no	no	no	Class II	Non-ext	Preadj bkt	25	-0.04	-0.22
96	male	16	5	4	no	no	no	no	Class I	Ext	Preadj bkt	41	1.2	6.99

Table A The associated factors, amount of EARR and percentage of EARR of 564 teeth (continued)

idno	Sex	Age	Overjet	Overbite	Abnormal root shape	Trauma	Tongue trusting habit	Allergic condition	Type of malocclusion	Tx plan	Bracket type	Tx duration	EARR (mm)	Percentage of EARR (%)
97	male	18	1	1	yes	no	no	no	Class I	Ext	Standard bkt	20	2.94	15.58
98	male	15	12	2	no	no	no	no	Class II	Ext	Preadj bkt	31	0.58	3.95
99	male	15	3	2	no	yes	no	no	Class I	Ext	Preadj bkt	25	3.85	26.38
100	male	20	0	1	no	no	no	no	Class I	Ext	Preadj bkt	40	1.18	9.27
101	male	22	1	0	no	no	no	no	Class I	Non-ext	Standard bkt	22	0.1	0.6
102	male	14	8	3	yes	no	no	no	Class I	Ext	Preadj bkt	23	2.87	13.79
103	male	11	3	8	yes	no	no	no	Class II	Non-ext	Preadj bkt	29	3.06	21.5
104	male	14	11	5	no	no	no	no	Class II	Ext	Preadj bkt	30	4.78	24.9
105	male	20	-4	3	no	no	no	no	Class III	Non-ext	Preadj bkt	42	0.88	5.2
106	female	23	1	0	no	no	yes	no	Class III	Ext	Preadj bkt	38	2.85	15.87
107	female	15	1.5	1	no	no	yes	no	Class I	Ext	Standard bkt	29	0.05	0.29
108	female	12	7	3	no	no	no	no	Class II	Ext	Preadj bkt	27	1.37	8.42
109	female	13	11	8	no	no	no	no	Class II	Non-ext	Preadj bkt	21	0.02	0.14
110	female	14	3	2	no	no	no	no	Class II	Ext	Preadj bkt	14	0.33	2.4
111	female	18	4	5	no	no	no	no	Class I	Ext	Standard bkt	29	2.93	14.39
112	female	16	5	2	no	no	no	no	Class I	Ext	Standard bkt	22	0.06	0.41
113	female	46	6	2.5	no	no	yes	no	Class II	Non-ext	Preadj bkt	26	1.02	6.17
114	female	20	4	5	no	no	no	no	Class I	Ext	Preadj bkt	42	1.63	8.29
115	female	35	1.5	0.5	no	no	yes	yes	Class I	Ext	Preadj bkt	31	2.28	12.06
116	female	17	4	5	no	no	no	no	Class II	Non-ext	Preadj bkt	19	0.21	1.31
117	female	14	4	2	no	no	yes	no	Class I	Ext	Preadj bkt	22	0.24	1.46
118	female	24	3	2	no	no	yes	no	Class I	Non-ext	Standard bkt	20	2.38	15.02
119	female	17	2	3	no	no	no	no	Class I	Non-ext	Preadj bkt	27	0.42	2.52
120	female	18	3	2	no	no	yes	no	Class I	Non-ext	Standard bkt	22	0.96	6.13
121	female	21	5	4.5	no	no	yes	no	Class I	Non-ext	Standard bkt	26	2.52	14.05
122	female	22	-2	-3	no	no	no	no	Class III	Non-ext	Preadj bkt	43	1.35	8.22
123	female	15	2	2	no	no	yes	no	Class I	Ext	Standard bkt	26	0.31	2.42
124	female	17	-1	0.5	no	no	yes	no	Class III	Non-ext	Preadj bkt	26	1.75	9.63
125	female	24	4	6	no	no	yes	no	Class I	Non-ext	Standard bkt	25	2.17	12.8
126	female	18	2	1	no	no	yes	yes	Class I	Ext	Preadj bkt	27	1.53	10
127	female	17	3	2	no	no	no	no	Class I	Non-ext	Standard bkt	15	0.18	1.36
128	female	23	6	7	no	no	no	no	Class I	Non-ext	Preadj bkt	9	1.74	9.58

Table A The associated factors, amount of EARR and percentage of EARR of 564 teeth (continued)

idno	Sex	Age	Overjet	Overbite	Abnormal root shape	Trauma	Tongue trusting habit	Allergic condition	Type of malocclusion	Tx plan	Bracket type	Tx duration	EARR (mm)	Percentage of EARR (%)
129	female	14	4.5	3	no	no	yes	no	Class I	Ext	Preadj bkt	26	2	12.83
130	female	14	0	0	no	no	yes	no	Class I	Ext	Preadj bkt	30	1.49	9.09
131	female	16	4	5	no	no	no	no	Class I	Ext	Preadj bkt	26	0.11	0.88
132	female	17	-1	4	no	no	yes	no	Class I	Non-ext	Preadj bkt	21	0.87	5.04
133	female	19	6.5	3	no	no	no	no	Class I	Ext	Preadj bkt	28	2.92	15.35
134	female	13	2	6	no	no	no	no	Class I	Non-ext	Standard bkt	30	1.22	6.82
135	female	15	3	5	no	no	no	yes	Class I	Non-ext	Preadj bkt	30	2.75	16.58
136	male	20	2.5	3	no	no	no	yes	Class I	Ext	Preadj bkt	30	0.1	0.65
137	female	17	4	2	no	no	no	no	Class I	Ext	Preadj bkt	28	1.89	12.59
138	female	11	4	5	no	no	no	no	Class I	Ext	Preadj bkt	33	0.02	0.14
139	female	13	4.5	4.5	no	no	no	yes	Class I	Ext	Preadj bkt	25	0.19	1.05
140	female	17	6	4	no	yes	no	yes	Class I	Non-ext	Preadj bkt	21	2.74	14.79
141	male	13	0	0	no	no	no	yes	Class I	Non-ext	Preadj bkt	38	1.39	10.49
142	male	11	5	4.5	no	no	no	yes	Class I	Ext	Standard bkt	50	1.23	7.88
143	female	15	5	2	no	no	yes	yes	Class I	Ext	Preadj bkt	57	4.76	27.48
144	female	24	10	7	no	no	yes	yes	Class II	Ext	Preadj bkt	34	1.89	9.02
145	male	14	5	3	no	no	yes	yes	Class II	Non-ext	Preadj bkt	29	2.93	2.94
146	female	22	4	3	no	no	no	no	Class I	Ext	Preadj bkt	37	0.38	2.17
147	female	11	6	2	no	no	no	yes	Class I	Ext	Preadj bkt	27	1.64	9.1
148	female	14	3	5	no	no	yes	no	Class II	Ext	Preadj bkt	45	1.42	8.4
149	male	14	5	3	no	no	no	no	Class I	Ext	Preadj bkt	36	1.17	5.68
150	female	13	10	4	no	no	no	no	Class II	Ext	Preadj bkt	52	1.64	10.03
151	female	18	0	0	yes	no	no	no	Class I	Ext	Standard bkt	31	1.49	8.73
152	female	18	3	3	no	no	no	no	Class I	Ext	Preadj bkt	24	1.16	7.71
153	female	14	9	3	no	no	yes	no	Class II	Ext	Standard bkt	39	5.12	24.41
154	female	19	4.5	4	no	no	yes	no	Class I	Ext	Standard bkt	45	4.45	33.76
155	female	17	3	2	no	no	no	yes	Class I	Ext	Preadj bkt	34	1.31	9.91
156	female	14	5	2	yes	no	no	no	Class I	Ext	Preadj bkt	28	-0.06	-0.33
157	female	17	-3	5	no	no	yes	yes	Class III	Ext	Preadj bkt	47	0.02	0.1
158	female	13	5	3	no	no	yes	no	Class II	Ext	Preadj bkt	56	2.19	10.49
159	female	20	3	4	no	no	no	no	Class I	Non-ext	Standard bkt	25	1.09	6.73
160	female	16	3	8	no	no	no	no	Class II	Ext	Standard bkt	28	1	1

Table A The associated factors, amount of EARR and percentage of EARR of 564 teeth (continued)

idno	Sex	Age	Overjet	Overbite	Abnormal root shape	Trauma	Tongue trusting habit	Allergic condition	Type of malocclusion	Tx plan	Bracket type	Tx duration	EARR (mm)	Percentage of EARR (%)
161	female	18	3.5	2	no	no	no	no	Class I	Ext	Standard bkt	23	0.87	0.87
162	female	18	5	4	no	yes	yes	no	Class I	Ext	Standard bkt	24	2.8	2.8
163	female	13	1	0	no	no	yes	no	Class I	Ext	Standard bkt	25	1.86	1.86
164	female	12	-2	4	yes	no	yes	no	Class III	Ext	Preadj bkt	28	0.62	0.62
165	female	12	-1.5	5	yes	no	no	no	Class III	Non-ext	Preadj bkt	31	0.63	3.89
166	female	15	-2	3.5	no	no	no	no	Class I	Ext	Standard bkt	30	1.34	8.46
167	female	20	2	2	no	no	no	no	Class I	Non-ext	Standard bkt	38	0.01	0.09
168	female	13	4	4	no	no	yes	no	Class I	Ext	Standard bkt	25	2.25	13.23
169	female	13	9	4	no	no	yes	no	Class II	Ext	Standard bkt	42	2.57	16.28
170	female	16	2	2	no	no	no	no	Class I	Ext	Preadj bkt	26	0.11	0.82
171	female	15	4	5	yes	no	yes	no	Class I	Ext	Preadj bkt	23	3.61	22.82
172	female	15	1	2	yes	no	no	yes	Class I	Ext	Preadj bkt	20	0.28	1.83
173	female	20	4	2	no	no	yes	no	Class I	Ext	Standard bkt	28	2.23	15.6
174	female	13	6.5	5	yes	no	yes	no	Class I	Ext	Preadj bkt	38	2.62	18.11
175	female	13	4.5	3	yes	no	yes	no	Class I	Ext	Preadj bkt	26	2.92	13.39
176	female	16	4	3	yes	no	yes	no	Class I	Ext	Preadj bkt	42	1.95	13.63
177	female	14	4	2	no	no	no	no	Class I	Ext	Preadj bkt	18	0.19	1.06
178	female	13	8	5	no	no	yes	no	Class I	Ext	Standard bkt	32	1.83	11.64
179	female	13	6	3.5	no	no	no	no	Class I	Ext	Preadj bkt	31	0.1	0.77
180	female	13	2	0.5	no	no	yes	no	Class I	Ext	Standard bkt	38	0.64	4.43
181	female	21	0	0	no	no	no	no	Class I	Non-ext	Standard bkt	13	1.22	7.88
182	female	15	6	3	no	no	yes	no	Class I	Ext	Standard bkt	22	0.81	4.16
183	female	11	5	3	no	no	no	no	Class I	Ext	Standard bkt	23	0.84	5.17
184	female	16	5	5	no	no	no	no	Class I	Ext	Standard bkt	27	0.43	2.17
185	female	12	5	3	no	no	no	no	Class I	Ext	Preadj bkt	49	0.39	2.44
186	female	17	1	1	no	no	yes	no	Class I	Ext	Standard bkt	8	1.17	7.16
187	female	25	5.5	3	no	no	yes	no	Class I	Non-ext	Preadj bkt	21	1.55	9.41
188	female	17	-2	2	no	no	yes	no	Class III	Ext	Preadj bkt	23	1.58	11.25
189	female	16	1	1	no	no	no	no	Class I	Ext	Preadj bkt	27	0.72	4.96
190	female	16	2	1	no	no	yes	no	Class I	Non-ext	Preadj bkt	30	0.97	5.93
191	female	18	6.5	4	no	no	no	no	Class I	Ext	Preadj bkt	27	0.27	1.78
192	female	11	5	3	no	no	no	no	Class II	Ext	Standard bkt	26	0.6	3.85

Table A The associated factors, amount of EARR and percentage of EARR of 564 teeth (continued)

idno	Sex	Age	Overjet	Overbite	Abnormal root shape	Trauma	Tongue trusting habit	Allergic condition	Type of malocclusion	Tx plan	Bracket type	Tx duration	EARR (mm)	Percentage of EARR (%)
193	female	17	-1	0	no	no	yes	no	Class III	Ext	Standard bkt	32	2.43	15.31
194	female	21	4	5	no	no	no	yes	Class I	Non-ext	Preadj bkt	39	0.91	6.46
195	female	32	6	0	no	no	yes	no	Class I	Non-ext	Standard bkt	16	0.41	2.93
196	female	16	4.5	4	no	no	yes	no	Class I	Ext	Standard bkt	22	2.35	15.97
197	female	22	7	3	no	no	no	no	Class II	Non-ext	Preadj bkt	24	-0.03	-0.2
198	female	15	5	4	no	no	no	no	Class I	Ext	Standard bkt	45	1.9	10.54
199	female	13	5.5	4	no	no	yes	no	Class II	Ext	Standard bkt	27	1.02	7.25
200	female	12	6	3	no	no	yes	no	Class II	Ext	Standard bkt	28	0.31	2.33
201	female	16	5	5	no	no	no	no	Class I	Ext	Standard bkt	29	0.42	3.33
202	female	17	0	0	no	no	no	no	Class I	Ext	Standard bkt	28	1.82	12.58
203	female	10	0.5	1	yes	no	no	no	Class I	Ext	Standard bkt	19	1.44	10.31
204	male	12	6	3	no	no	no	no	Class I	Ext	Standard bkt	23	0.08	0.57
205	male	14	4	3	no	no	no	no	Class I	Non-ext	Standard bkt	12	0.27	1.9
206	male	16	4	3	no	no	no	no	Class I	Non-ext	Standard bkt	27	4.08	29.13
207	male	14	-2	2	no	no	no	no	Class III	Ext	Preadj bkt	37	0	0.01
208	male	15	10	5	no	yes	no	no	Class II	Ext	Preadj bkt	35	5.37	38.55
209	male	14	3.5	7	no	no	no	no	Class II	Non-ext	Standard bkt	28	0.18	1
210	male	17	3	3	no	no	no	yes	Class I	Non-ext	Preadj bkt	47	3.87	23.96
211	male	22	2	3	no	no	no	no	Class I	Ext	Standard bkt	37	1.22	9.96
212	male	14	0	0	yes	no	no	no	Class I	Non-ext	Preadj bkt	11	2.99	18.23
213	male	18	4	2	yes	no	no	no	Class I	Ext	Preadj bkt	21	0.79	4.47
214	male	17	5	4	no	yes	no	no	Class I	Ext	Standard bkt	29	3.05	16.65
215	male	13	2.5	4	no	no	no	yes	Class I	Ext	Preadj bkt	29	1.48	9.63
216	male	18	3.5	2	no	no	no	no	Class I	Ext	Preadj bkt	18	1.05	5.83
217	male	15	7	6	no	no	no	no	Class I	Ext	Preadj bkt	46	1.79	12.09
218	male	11	6	4	no	no	yes	no	Class II	Non-ext	Standard bkt	18	0.07	0.45
219	male	15	6	3	yes	no	no	no	Class I	Ext	Standard bkt	19	3.53	18.89
220	male	16	2	3	no	no	yes	yes	Class I	Non-ext	Standard bkt	55	1.9	17.96
221	male	13	6	5	no	no	no	no	Class II	Ext	Standard bkt	45	2.95	13.79
222	male	14	6.5	3	no	no	yes	yes	Class II	Ext	Standard bkt	21	0.16	0.98
223	male	23	9	5	no	no	no	no	Class II	Ext	Preadj bkt	30	0.18	1.17
224	male	18	8	5	no	no	no	no	Class I	Ext	Preadj bkt	40	2.79	16.86

Table A The associated factors, amount of EARR and percentage of EARR of 564 teeth (continued)

idno	Sex	Age	Overjet	Overbite	Abnormal root shape	Trauma	Tongue trusting habit	Allergic condition	Type of malocclusion	Tx plan	Bracket type	Tx duration	EARR (mm)	Percentage of EARR (%)
225	male	14	4	4	no	no	no	yes	Class I	Non-ext	Standard bkt	32	1.2	9.56
226	male	16	1	2	no	no	no	no	Class I	Non-ext	Standard bkt	23	0.12	0.7
227	male	16	3	3	no	no	no	no	Class I	Ext	Preadj bkt	30	1.4	7.97
228	male	15	4	5	no	no	no	no	Class I	Non-ext	Standard bkt	12	2.37	12.08
229	male	15	5	7	no	no	no	no	Class II	Non-ext	Preadj bkt	25	-0.1	-0.54
230	male	18	1	1	yes	no	no	no	Class I	Ext	Standard bkt	20	1.55	9.33
231	male	12	3	2	no	no	no	no	Class I	Ext	Preadj bkt	25	1.38	7.86
232	male	15	3	2	no	no	no	no	Class I	Ext	Preadj bkt	25	2.24	14.78
233	male	13	4	4	no	no	no	no	Class I	Ext	Standard bkt	26	3.47	18.28
234	male	20	0	1	no	no	no	no	Class I	Ext	Preadj bkt	40	0.74	4.45
235	male	14	6.5	3	no	yes	no	no	Class I	Non-ext	Standard bkt	25	1.54	9.39
236	male	14	8	3	no	no	no	no	Class I	Ext	Preadj bkt	23	0.14	0.98
237	male	11	3	8	yes	no	no	no	Class II	Non-ext	Preadj bkt	29	3.04	19.53
238	male	14	11	5	yes	no	no	no	Class II	Ext	Preadj bkt	30	4.14	20.22
239	male	23	1	0	no	no	yes	no	Class III	Ext	Preadj bkt	38	2.53	13.62
240	female	15	1.5	1	no	no	yes	no	Class I	Ext	Standard bkt	29	2.55	14.06
241	female	12	7	3	no	no	no	no	Class II	Ext	Preadj bkt	27	2.21	13.87
242	female	13	11	8	no	no	no	no	Class II	Non-ext	Preadj bkt	21	0.93	5.19
243	female	18	4	5	no	no	no	no	Class I	Ext	Standard bkt	29	3.15	16
244	female	17	4	5	no	no	no	no	Class II	Non-ext	Preadj bkt	19	0.07	0.5
245	female	24	1	1	no	no	yes	no	Class I	Ext	Standard bkt	27	1.63	8.47
246	female	14	4	2	no	no	yes	no	Class I	Ext	Preadj bkt	22	1.76	9.55
247	female	24	3	2	yes	no	yes	no	Class I	Non-ext	Standard bkt	20	3.6	24.51
248	female	17	2	3	no	no	no	no	Class I	Non-ext	Preadj bkt	27	2.49	15.2
249	female	18	3	2	no	no	yes	no	Class I	Non-ext	Standard bkt	22	0.59	3.81
250	female	21	5	4.5	no	no	yes	no	Class I	Non-ext	Standard bkt	26	2.27	13.24
251	female	15	2	2	no	no	yes	no	Class I	Ext	Standard bkt	26	0.09	0.62
252	female	24	4	6	no	no	yes	no	Class I	Non-ext	Standard bkt	25	2.11	12.76
253	female	18	2	1	no	no	yes	yes	Class I	Ext	Preadj bkt	27	1.88	11.09
254	female	17	3	2	no	no	no	no	Class I	Non-ext	Standard bkt	15	1.05	7.53
255	female	18	9	2	no	no	no	no	Class II	Ext	Preadj bkt	30	2.46	13.64
256	female	14	4.5	3	no	no	yes	no	Class I	Ext	Preadj bkt	26	1.82	9.75

Table A The associated factors, amount of EARR and percentage of EARR of 564 teeth (continued)

idno	Sex	Age	Overjet	Overbite	Abnormal root shape	Trauma	Tongue trusting habit	Allergic condition	Type of malocclusion	Tx plan	Bracket type	Tx duration	EARR (mm)	Percentage of EARR (%)
257	female	14	0	0	no	no	yes	no	Class I	Ext	Preadj bkt	30	2.39	12.74
258	female	11	10	10	no	no	no	no	Class II	Ext	Preadj bkt	42	0.88	5.88
259	female	16	4	5	no	no	no	no	Class I	Ext	Preadj bkt	26	0.64	4.53
260	female	17	-1	4	no	no	yes	no	Class I	Non-ext	Preadj bkt	21	0.09	0.54
261	female	19	6.5	3	no	no	no	no	Class I	Ext	Preadj bkt	28	0.78	4.37
262	female	13	2	6	no	no	no	no	Class I	Non-ext	Standard bkt	30	0.04	0.23
263	female	15	3	5	no	no	no	yes	Class I	Non-ext	Preadj bkt	30	0.07	0.5
264	male	20	2.5	3	no	no	no	yes	Class I	Ext	Preadj bkt	30	4.48	22.86
265	female	17	4	3	no	no	no	yes	Class I	Ext	Preadj bkt	24	3.95	22.03
266	male	14	1	2	no	no	no	no	Class I	Ext	Preadj bkt	15	1.8	12.07
267	female	17	4	2	no	no	no	no	Class I	Ext	Preadj bkt	28	2.32	16.38
268	female	11	4	5	no	no	no	no	Class I	Ext	Preadj bkt	33	0.04	0.3
269	female	13	4.5	4.5	no	no	no	yes	Class I	Ext	Preadj bkt	25	0.5	2.98
270	female	17	6	4	no	yes	no	yes	Class I	Non-ext	Preadj bkt	21	2.23	16.02
271	male	11	5	4.5	yes	no	no	yes	Class I	Ext	Standard bkt	50	3.69	24.02
272	female	15	5	2	no	no	yes	yes	Class I	Ext	Preadj bkt	57	3.71	23.27
273	female	24	10	7	no	no	yes	yes	Class II	Ext	Preadj bkt	34	2.85	15.69
274	male	14	5	3	no	no	yes	yes	Class II	Non-ext	Preadj bkt	29	3.39	19.3
275	female	11	6	2	yes	no	no	yes	Class I	Ext	Preadj bkt	27	1.67	10.82
276	female	15	8	0	no	no	yes	no	Class II	Ext	Preadj bkt	48	1.85	13.39
277	female	14	3	5	no	no	yes	no	Class II	Ext	Preadj bkt	45	3.31	17.73
278	male	14	5	3	yes	no	no	no	Class I	Ext	Preadj bkt	36	1.95	10.16
279	female	15	2	1	no	yes	yes	no	Class I	Ext	Preadj bkt	32	0.72	4.23
280	female	16	8	4	no	yes	yes	no	Class I	Ext	Preadj bkt	54	2.37	13.79
281	female	13	3.5	2	no	no	yes	no	Class I	Ext	Preadj bkt	31	0.03	0.2
282	female	13	10	4	no	no	no	no	Class II	Ext	Preadj bkt	52	1.37	10.51
283	female	18	0	0	no	no	no	no	Class I	Ext	Standard bkt	31	2.49	13.95
284	female	18	3	3	no	no	no	no	Class I	Ext	Preadj bkt	24	1.89	11.1
285	female	14	1	1	no	no	no	no	Class I	Non-ext	Standard bkt	22	1.36	9.18
286	female	14	9	3	no	no	yes	no	Class II	Ext	Standard bkt	39	3.59	17.5
287	female	19	4.5	4	no	no	yes	no	Class I	Ext	Standard bkt	45	2.6	19.52
288	female	17	3	2	no	no	no	yes	Class I	Ext	Preadj bkt	34	3.17	23.56

Table A The associated factors, amount of EARR and percentage of EARR of 564 teeth (continued)

idno	Sex	Age	Overjet	Overbite	Abnormal root shape	Trauma	Tongue trusting habit	Allergic condition	Type of malocclusion	Tx plan	Bracket type	Tx duration	EARR (mm)	Percentage of EARR (%)
289	female	19	2.5	2	no	no	no	yes	Class I	Ext	Preadj bkt	31	1.44	10.12
290	female	14	5	2	no	no	no	no	Class I	Ext	Preadj bkt	28	1.89	10.06
291	female	17	-3	5	no	no	yes	yes	Class III	Ext	Preadj bkt	47	1.86	10.25
292	female	13	5	3	no	no	yes	no	Class II	Ext	Preadj bkt	56	3.66	18.74
293	female	20	3	4	no	no	no	no	Class I	Non-ext	Standard bkt	25	2.07	11.27
294	female	16	3	8	no	no	no	no	Class II	Ext	Standard bkt	28	0.66	5.23
295	female	12	11	5	no	no	yes	no	Class II	Ext	Preadj bkt	28	1.1	7.1
296	female	18	5	4	no	yes	yes	no	Class I	Ext	Standard bkt	24	0.15	1
297	female	13	1	0	no	no	yes	no	Class I	Ext	Standard bkt	25	1.38	8.08
298	female	12	-2	4	no	no	yes	no	Class III	Ext	Preadj bkt	28	1.13	6.7
299	female	15	-1	2	no	no	no	no	Class III	Non-ext	Standard bkt	12	0.2	1.26
300	female	12	-1.5	5	yes	no	no	no	Class III	Non-ext	Preadj bkt	31	1.12	7.68
301	female	15	-2	3.5	no	no	no	no	Class I	Ext	Standard bkt	30	0.68	4.26
302	female	15	1	1	no	no	yes	no	Class I	Non-ext	Preadj bkt	41	1.06	8.24
303	female	20	2	2	no	no	no	no	Class I	Non-ext	Standard bkt	38	0.66	5.23
304	female	13	4	4	no	no	yes	no	Class I	Ext	Standard bkt	25	1.6	10.4
305	female	14	8	4	no	no	yes	no	Class II	Ext	Preadj bkt	28	-1.68	-11.82
306	female	13	9	4	no	no	yes	no	Class II	Ext	Standard bkt	42	5.18	34.7
307	female	13	1	0	no	no	yes	no	Class I	Ext	Standard bkt	25	1.38	8.08
308	female	17	-3	2	yes	no	yes	no	Class III	Ext	Standard bkt	27	1.96	15.35
309	female	16	2	2	no	no	no	no	Class I	Ext	Preadj bkt	26	2.16	12.85
310	female	15	4	5	yes	no	yes	no	Class I	Ext	Preadj bkt	23	1.09	7
311	female	15	1	2	yes	no	no	yes	Class I	Ext	Preadj bkt	20	0.2	13.17
312	female	20	4	2	no	no	yes	no	Class I	Ext	Standard bkt	28	1.44	9.79
313	female	13	6.5	5	no	no	yes	no	Class I	Ext	Preadj bkt	38	1.74	10.27
314	female	13	4.5	3	yes	no	yes	no	Class I	Ext	Preadj bkt	26	1.53	8.07
315	female	16	4	3	no	no	yes	no	Class I	Ext	Preadj bkt	42	1.94	11.32
316	female	14	4	2	no	no	no	no	Class I	Ext	Preadj bkt	18	1.48	8.7
317	female	13	8	5	no	no	yes	no	Class I	Ext	Standard bkt	32	1.2	5.45
318	female	13	6	3.5	no	no	no	no	Class I	Ext	Preadj bkt	31	0.08	0.57
319	female	20	3	1	no	no	yes	no	Class I	Ext	Preadj bkt	32	0.61	3.34
320	female	17	-5	3	no	no	yes	yes	Class III	Ext	Preadj bkt	27	2.75	14.94

Table A The associated factors, amount of EARR and percentage of EARR of 564 teeth (continued)

idno	Sex	Age	Overjet	Overbite	Abnormal root shape	Trauma	Tongue trusting habit	Allergic condition	Type of malocclusion	Tx plan	Bracket type	Tx duration	EARR (mm)	Percentage of EARR (%)
321	female	13	2	0.5	no	no	yes	no	Class I	Ext	Standard bkt	38	0.06	0.36
322	female	21	0	0	no	no	no	no	Class I	Non-ext	Standard bkt	13	0.92	5.57
323	female	17	2	4	no	no	no	yes	Class I	Ext	Preadj bkt	24	0.64	4.25
324	female	15	6	3	no	no	yes	no	Class I	Ext	Standard bkt	22	1.24	7.04
325	female	11	5	3	no	no	no	no	Class I	Ext	Standard bkt	23	2.23	14.6
326	female	12	5	3	no	no	no	no	Class I	Ext	Preadj bkt	49	1.02	6.72
327	female	17	1	1	no	no	yes	no	Class I	Ext	Standard bkt	8	1.04	6.71
328	female	25	5.5	3	no	no	yes	no	Class I	Non-ext	Preadj bkt	21	0.18	1.54
328	female	17	-2	2	no	no	yes	no	Class III	Ext	Preadj bkt	23	0.41	2.8
330	female	16	1	1	no	no	no	no	Class I	Ext	Preadj bkt	27	1.31	7.1
331	female	22	8	3	yes	no	yes	no	Class II	Ext	Preadj bkt	31	2.6	14.44
332	female	16	2	1	no	no	yes	no	Class I	Non-ext	Preadj bkt	30	0.18	1.07
333	female	18	6.5	4	no	no	no	no	Class I	Ext	Preadj bkt	27	1.59	8.99
334	female	11	5	3	no	no	no	yes	Class II	Ext	Standard bkt	26	0.13	0.92
335	female	17	-1	0	no	no	yes	yes	Class III	Ext	Standard bkt	32	2.67	16.17
336	female	13	7	5	no	no	no	no	Class II	Ext	Preadj bkt	41	1.52	9.12
337	female	21	4	5	no	no	no	yes	Class I	Non-ext	Preadj bkt	39	1.82	14.53
338	female	32	6	0	no	no	yes	no	Class I	Non-ext	Standard bkt	16	0.48	3.04
339	female	16	4.5	4	no	no	yes	no	Class I	Ext	Standard bkt	22	2.94	18.39
340	female	22	7	3	no	no	no	no	Class II	Non-ext	Preadj bkt	24	2.53	13.3
341	female	13	5.5	4	no	no	yes	no	Class II	Ext	Standard bkt	27	0.49	2.88
342	female	12	6	4	no	no	yes	no	Class I	Ext	Preadj bkt	29	0.12	0.65
343	female	12	6	3	no	no	yes	no	Class II	Ext	Standard bkt	28	1.04	6.88
344	female	18	2	1	no	no	no	no	Class I	Ext	Preadj bkt	22	0.04	0.22
345	female	16	5	5	no	no	no	no	Class I	Ext	Standard bkt	29	1.86	11.78
346	female	12	5	3	no	no	no	no	Class I	Ext	Standard bkt	23	0.54	3.71
347	female	17	0	0	no	no	no	no	Class I	Ext	Standard bkt	28	1.12	7.57
348	female	10	0.5	1	no	no	no	no	Class I	Ext	Standard bkt	19	-0.91	-6.31
349	male	12	6	3	no	no	no	no	Class I	Ext	Standard bkt	23	0.69	3.86
350	male	14	4	3	no	no	no	no	Class I	Non-ext	Standard bkt	12	0.1	0.26
351	male	16	4	3	no	no	no	no	Class I	Non-ext	Standard bkt	27	0.1	2.42
352	male	12	2	2	no	no	no	no	Class I	Ext	Preadj bkt	25	0.62	2.67

Table A The associated factors, amount of EARR and percentage of EARR of 564 teeth (continued)

idno	Sex	Age	Overjet	Overbite	Abnormal root shape	Trauma	Tongue trusting habit	Allergic condition	Type of malocclusion	Tx plan	Bracket type	Tx duration	EARR (mm)	Percentage of EARR (%)
353	male	14	-2	2	no	no	no	no	Class III	Ext	Preadj bkt	37	0.04	1.34
354	male	15	10	5	no	yes	no	no	Class II	Ext	Preadj bkt	35	11.72	66.43
355	male	14	3.5	7	no	no	no	no	Class II	Non-ext	Standard bkt	28	1.24	6.91
356	male	17	3	3	no	no	0	yes	Class I	Non-ext	Preadj bkt	47	2.19	12.18
357	male	22	2	3	no	no	0	no	Class I	Ext	Standard bkt	37	4.25	38.41
358	male	12	1	2	no	no	1	no	Class I	Non-ext	Preadj bkt	20	0.04	0.24
359	male	16	2	1.5	no	no	0	no	Class I	Ext	Preadj bkt	32	5.36	26.97
360	male	13	5	5	no	yes	1	no	Class I	Non-ext	Preadj bkt	33	0.01	0.07
361	male	13	5.5	2	no	no	1	no	Class I	Ext	Preadj bkt	26	0.14	0.78
362	male	12	3	2	no	no	no	no	Class I	Non-ext	Standard bkt	58	1.04	6.69
363	male	14	0	0	no	no	no	no	Class I	Non-ext	Preadj bkt	11	0.61	3.44
364	male	18	4	2	no	no	no	no	Class I	Ext	Preadj bkt	21	0.34	2.09
365	male	17	5	4	no	yes	no	no	Class I	Ext	Standard bkt	29	3.93	22.09
366	male	21	4	3	no	no	no	no	Class I	Ext	Preadj bkt	26	0.46	2.61
367	male	18	3.5	2	no	no	no	no	Class I	Ext	Preadj bkt	18	2.05	11.02
368	male	15	7	6	no	no	no	no	Class I	Ext	Preadj bkt	46	1.62	10.95
369	male	18	0	0	no	no	no	no	Class I	Non-ext	Standard bkt	16	0.03	0.19
370	male	11	6	4	no	no	yes	no	Class II	Non-ext	Standard bkt	18	0.71	5.79
371	male	15	6	3	no	no	no	no	Class I	Ext	Standard bkt	19	2.09	12.02
372	male	19	9	5	no	no	no	yes	Class I	Non-ext	Preadj bkt	29	0.31	1.54
373	male	16	2	3	no	no	yes	yes	Class I	Non-ext	Standard bkt	55	0.41	3.67
374	male	13	6	5	no	no	no	no	Class II	Ext	Standard bkt	45	2.64	12.94
375	male	23	9	5	no	no	no	no	Class II	Ext	Preadj bkt	30	0.1	0.62
376	male	18	8	5	no	no	no	no	Class I	Ext	Preadj bkt	40	1.14	7.05
377	male	14	4	4	no	no	no	yes	Class I	Non-ext	Standard bkt	32	0.64	5.11
378	male	16	1	2	no	no	no	no	Class I	Non-ext	Standard bkt	23	0.49	3.25
379	male	15	4	5	no	no	no	no	Class I	Non-ext	Preadj bkt	12	0.19	1
380	male	14	-1	-1	no	no	no	no	Class I	Ext	Standard bkt	24	1.87	11.83
381	male	16	5	4	no	no	no	no	Class I	Ext	Preadj bkt	41	1.61	9.61
382	male	18	1	1	yes	no	no	no	Class I	Ext	Standard bkt	20	3.46	18.4
383	male	16	1	0	no	no	yes	no	Class I	Ext	Preadj bkt	30	0.73	3.87
384	male	15	12	2	no	no	no	no	Class II	Ext	Preadj bkt	31	1.12	7.64

Table A The associated factors, amount of EARR and percentage of EARR of 564 teeth (continued)

idno	Sex	Age	Overjet	Overbite	Abnormal root shape	Trauma	Tongue trusting habit	Allergic condition	Type of malocclusion	Tx plan	Bracket type	Tx duration	EARR (mm)	Percentage of EARR (%)
385	male	15	3	2	no	yes	no	no	Class I	Ext	Preadj bkt	25	2.72	20.15
386	male	13	4	4	no	no	no	no	Class I	Ext	Standard bkt	26	2.9	16.36
387	male	20	0	1	no	no	no	no	Class I	Ext	Preadj bkt	40	2.72	17.75
388	male	22	1	0	no	no	no	no	Class I	Non-ext	Standard bkt	22	1.91	11.15
389	male	14	8	3	yes	no	no	no	Class I	Ext	Preadj bkt	23	3.28	15.63
390	male	14	11	5	no	no	no	no	Class II	Ext	Preadj bkt	30	1.41	7.92
391	male	20	-4	3	no	no	no	no	Class III	Non-ext	Preadj bkt	42	1.66	9.92
392	male	23	1	0	no	no	yes	no	Class III	Ext	Preadj bkt	38	1.13	6.12
393	female	15	1.5	1	no	no	yes	no	Class I	Ext	Standard bkt	29	0	-0.03
394	female	12	7	3	no	no	no	no	Class II	Ext	Preadj bkt	27	1.37	7.93
395	female	13	11	8	no	no	no	no	Class II	Non-ext	Preadj bkt	21	0.91	5.15
396	female	14	3	2	no	no	no	no	Class II	Ext	Preadj bkt	14	1.04	7.42
397	female	18	4	5	no	no	no	no	Class I	Ext	Standard bkt	29	0.14	0.75
398	female	16	5	2	no	no	no	no	Class I	Ext	Standard bkt	22	1.42	7.49
399	female	46	6	2.5	no	no	yes	no	Class II	Non-ext	Preadj bkt	26	0.67	4.3
400	female	20	4	5	no	no	no	no	Class I	Ext	Preadj bkt	42	2.89	15.62
401	female	35	1.5	0.5	no	no	yes	yes	Class I	Ext	Preadj bkt	31	1.41	8.3
402	female	24	1	1	no	no	yes	no	Class I	Ext	Standard bkt	27	2.36	12.29
403	female	14	4	2	no	no	yes	no	Class I	Ext	Preadj bkt	22	1.69	9.07
404	female	24	3	2	no	no	yes	no	Class I	Non-ext	Standard bkt	20	1.32	8.12
405	female	18	3	2	no	no	yes	no	Class I	Non-ext	Standard bkt	22	2.53	16.03
406	female	21	5	4.5	no	no	yes	no	Class I	Non-ext	Standard bkt	26	2.32	13.16
407	female	22	-2	-3	no	no	no	no	Class III	Non-ext	Preadj bkt	43	1.51	9.44
408	female	15	2	2	no	no	yes	no	Class I	Ext	Standard bkt	26	0.91	6.48
409	female	17	-1	0.5	no	no	yes	no	Class III	Non-ext	Preadj bkt	26	2	9.89
410	female	24	4	6	no	no	yes	no	Class I	Non-ext	Standard bkt	25	1.93	11.31
411	female	17	3	2	no	no	no	no	Class I	Non-ext	Standard bkt	15	0.3	2.23
412	female	14	4.5	3	no	no	yes	no	Class I	Ext	Preadj bkt	26	2.77	16.53
413	female	14	0	0	no	no	yes	no	Class I	Ext	Preadj bkt	30	1.37	7.78
414	male	15	6	4	no	no	no	no	Class I	Ext	Preadj bkt	33	3.73	19.64
415	female	10	5	5	no	no	no	yes	Class II	Ext	Preadj bkt	23	1.62	11.01
416	female	17	-1	4	no	no	yes	no	Class I	Non-ext	Preadj bkt	21	0.71	4.19

Table A The associated factors, amount of EARR and percentage of EARR of 564 teeth (continued)

idno	Sex	Age	Overjet	Overbite	Abnormal root shape	Trauma	Tongue trusting habit	Allergic condition	Type of malocclusion	Tx plan	Bracket type	Tx duration	EARR (mm)	Percentage of EARR (%)
417	female	13	2	6	no	no	no	no	Class I	Non-ext	Standard bkt	30	0	0.03
418	female	15	3	5	no	no	no	yes	Class I	Non-ext	Preadj bkt	30	2.25	13.22
419	male	20	2.5	3	no	no	no	yes	Class I	Ext	Preadj bkt	30	0.12	0.73
420	female	17	4	3	no	no	no	yes	Class I	Ext	Preadj bkt	24	1.27	7.15
421	male	14	1	2	no	no	no	no	Class I	Ext	Preadj bkt	15	0.21	1.35
422	female	17	4	2	no	no	no	no	Class I	Ext	Preadj bkt	28	0.1	0.65
423	female	13	4.5	4.5	no	no	no	no	Class I	Ext	Preadj bkt	25	1.76	1.76
424	male	14	8	6	no	no	no	no	Class II	Ext	Preadj bkt	34	1.09	6.57
425	female	22	4	3	no	no	no	no	Class I	Ext	Preadj bkt	37	0.05	0.29
426	female	11	6	2	no	no	no	yes	Class I	Ext	Preadj bkt	27	0.8	4.51
427	female	15	8	0	no	no	yes	no	Class II	Ext	Preadj bkt	48	0.21	1.5
428	female	14	3	5	no	no	yes	no	Class II	Ext	Preadj bkt	45	0.82	4.82
429	male	14	5	3	no	no	no	no	Class I	Ext	Preadj bkt	36	2.03	10.26
430	female	13	3.5	2	no	no	yes	no	Class I	Ext	Preadj bkt	31	0.5	2.92
431	female	18	0	0	yes	no	no	no	Class I	Ext	Standard bkt	31	1.88	11.99
432	female	18	3	3	no	no	no	no	Class I	Ext	Preadj bkt	24	0.77	5.62
433	female	14	1	1	no	no	no	no	Class I	Non-ext	Standard bkt	22	1.6	9.78
434	female	14	9	3	no	no	yes	no	Class II	Ext	Standard bkt	39	1.2	7.32
435	female	19	4.5	4	no	no	yes	no	Class I	Ext	Standard bkt	45	1.99	14.27
436	female	17	3	2	no	no	no	yes	Class I	Ext	Preadj bkt	34	2.47	20.96
437	female	19	2.5	2	no	no	no	yes	Class I	Ext	Preadj bkt	31	0.79	6.55
438	female	14	5	2	no	no	no	no	Class I	Ext	Preadj bkt	28	-0.09	-0.56
439	female	17	-3	5	no	no	yes	yes	Class III	Ext	Preadj bkt	47	0.76	5.11
440	female	13	5	3	no	no	yes	no	Class II	Ext	Preadj bkt	56	0.73	3.88
441	female	20	3	4	no	no	no	no	Class I	Non-ext	Standard bkt	25	2.1	13.78
442	female	16	3	8	no	no	no	no	Class II	Ext	Standard bkt	28	1.47	10.66
443	female	18	5	4	no	yes	yes	no	Class I	Ext	Standard bkt	24	1.03	6.35
444	female	12	-2	4	no	no	yes	no	Class III	Ext	Preadj bkt	28	2.33	13.45
445	female	15	-1	2	no	no	no	no	Class III	Non-ext	Standard bkt	12	1.22	7.43
446	female	20	2	2	no	no	no	no	Class I	Non-ext	Standard bkt	38	0.05	0.36
447	female	13	4	4	no	no	yes	no	Class I	Ext	Standard bkt	25	2.87	16.78
448	female	13	9	4	no	no	yes	no	Class II	Ext	Standard bkt	42	4.54	29.43

Table A The associated factors, amount of EARR and percentage of EARR of 564 teeth (continued)

idno	Sex	Age	Overjet	Overbite	Abnormal root shape	Trauma	Tongue trusting habit	Allergic condition	Type of malocclusion	Tx plan	Bracket type	Tx duration	EARR (mm)	Percentage of EARR (%)
449	female	17	-3	2	no	no	yes	no	Class III	Ext	Standard bkt	27	2.13	15.65
450	female	16	2	2	no	no	no	no	Class I	Ext	Preadj bkt	26	2.4	16.88
451	female	15	4	5	yes	no	yes	no	Class I	Ext	Preadj bkt	23	2.23	12.85
452	female	15	1	2	yes	no	no	yes	Class I	Ext	Preadj bkt	20	1	6.47
453	female	20	4	2	no	no	yes	no	Class I	Ext	Standard bkt	28	3.67	21.52
454	female	13	6.5	5	yes	no	yes	no	Class I	Ext	Preadj bkt	38	3.84	27.2
455	female	13	4.5	3	yes	no	yes	no	Class I	Ext	Preadj bkt	26	2.77	15.67
456	female	16	4	3	yes	no	yes	no	Class I	Ext	Preadj bkt	42	3.79	22.03
457	female	14	4	2	no	no	no	no	Class I	Ext	Preadj bkt	18	1.7	10.02
458	female	13	8	5	no	no	yes	no	Class I	Ext	Standard bkt	32	1.29	7.1
459	female	13	6	3.5	no	no	no	no	Class I	Ext	Preadj bkt	31	0.37	3.07
460	female	20	3	1	no	no	yes	no	Class I	Ext	Preadj bkt	32	1.38	8.1
461	female	13	2	0.5	no	no	yes	no	Class I	Ext	Standard bkt	38	1.6	10.31
462	female	21	0	0	no	no	no	no	Class I	Non-ext	Standard bkt	13	0.71	4.6
463	female	11	5	3	no	no	no	no	Class I	Ext	Standard bkt	23	1.36	8.08
464	female	16	5	5	no	no	no	no	Class I	Ext	Standard bkt	27	1.33	6.58
465	female	12	5	3	no	no	no	no	Class I	Ext	Preadj bkt	49	0.62	4.03
466	female	17	1	1	no	no	yes	no	Class I	Ext	Standard bkt	8	1.29	8.9
467	female	25	5.5	3	no	no	yes	no	Class I	Non-ext	Preadj bkt	21	0.34	2.19
468	female	17	-2	2	no	no	yes	no	Class III	Ext	Preadj bkt	23	0.03	0.24
469	female	16	1	1	no	no	no	no	Class I	Ext	Preadj bkt	27	2.87	16.69
470	female	22	8	3	no	no	yes	no	Class II	Ext	Preadj bkt	31	1.2	6.34
471	female	16	2	1	no	no	yes	no	Class I	Non-ext	Preadj bkt	30	0.1	0.66
472	female	18	6.5	4	no	no	no	no	Class I	Ext	Preadj bkt	27	1.63	10.14
473	female	11	5	3	no	no	no	yes	Class II	Ext	Standard bkt	26	1.27	9.4
474	female	17	-1	0	no	no	yes	yes	3	Ext	Standard bkt	32	1.99	12.26
475	female	21	4	5	yes	no	no	yes	Class I	Non-ext	Preadj bkt	39	3.17	16.13
476	female	32	6	0	no	no	yes	no	Class I	Non-ext	Standard bkt	16	0.05	0.33
477	female	16	4.5	4	no	no	yes	no	Class I	Ext	Standard bkt	22	2.74	18.29
478	female	22	7	3	no	no	no	no	Class II	Non-ext	Preadj bkt	24	2.49	13.84
479	female	15	5	4	no	no	no	no	Class I	Ext	Standard bkt	45	1.43	7.89
480	female	13	5.5	4	yes	no	yes	no	Class II	Ext	Standard bkt	27	2.09	13.84

Table A The associated factors, amount of EARR and percentage of EARR of 564 teeth (continued)

idno	Sex	Age	Overjet	Overbite	Abnormal root shape	Trauma	Tongue trusting habit	Allergic condition	Type of malocclusion	Tx plan	Bracket type	Tx duration	EARR (mm)	Percentage of EARR (%)
481	female	12	6	4	no	no	yes	no	Class I	Ext	Preadj bkt	29	1.56	6.84
482	female	12	6	3	no	no	yes	no	Class II	Ext	Standard bkt	28	1.87	12.49
483	female	16	5	5	no	no	no	no	Class I	Ext	Standard bkt	29	0.6	5.14
484	female	12	5	3	yes	no	no	no	Class I	Ext	Standard bkt	23	1.4	9.93
485	female	17	0	0	no	no	no	no	Class I	Ext	Standard bkt	28	2.05	13.51
486	female	10	0.5	1	yes	no	no	no	Class I	Ext	Standard bkt	19	0.12	0.89
487	male	12	6	3	no	no	no	no	Class I	Ext	Standard bkt	23	2.24	11.34
488	male	14	4	3	no	no	no	no	Class I	Non-ext	Standard bkt	12	0.63	1.61
489	male	16	4	3	no	no	no	no	Class I	Non-ext	Standard bkt	27	0.61	15.04
490	male	12	2	2	no	no	no	no	Class I	Ext	Preadj bkt	25	4.02	19.19
491	male	14	-2	2	no	no	no	no	Class III	Ext	Preadj bkt	37	0.29	8.48
492	male	15	10	5	no	yes	no	no	Class II	Ext	Preadj bkt	35	6.53	42.29
493	male	14	3.5	7	no	no	no	no	Class II	Non-ext	Standard bkt	28	0.51	2.79
494	male	17	3	3	no	no	no	yes	Class I	Non-ext	Preadj bkt	47	2.07	14.22
495	male	22	2	3	no	no	no	no	Class I	Ext	Standard bkt	37	3.18	26.4
496	male	12	1	2	yes	no	yes	no	Class I	Non-ext	Preadj bkt	20	0.03	1.51
497	male	14	6	3.5	no	no	no	yes	Class I	Ext	Preadj bkt	25	0.59	3.96
498	male	38	3.5	3	yes	no	no	no	Class I	Non-ext	Preadj bkt	13	4.27	22.26
499	male	18	8	6	no	no	no	no	Class I	Ext	Standard bkt	27	1.23	8.33
500	male	13	5.5	2	no	no	yes	no	Class I	Ext	Preadj bkt	26	1.46	7.68
501	male	12	3	2	no	no	no	no	Class I	Non-ext	Standard bkt	58	0.77	6.15
502	male	14	0	0	no	no	no	no	Class I	Non-ext	Preadj bkt	11	0.2	1.09
503	male	18	4	2	yes	no	no	no	Class I	Ext	Preadj bkt	21	1.25	7.27
504	male	17	5	4	no	yes	no	no	Class I	Ext	Standard bkt	29	3.12	16.72
505	male	18	3.5	2	no	no	no	no	Class I	Ext	Preadj bkt	18	1.27	6.28
506	male	15	7	6	no	no	no	no	Class I	Ext	Preadj bkt	46	2.69	17.94
507	male	18	0	0	no	no	no	no	Class I	Non-ext	Standard bkt	16	0.45	2.76
508	male	11	6	4	no	no	yes	no	Class II	Non-ext	Standard bkt	18	0.14	1.03
509	male	15	6	3	no	no	no	no	Class I	Ext	Standard bkt	19	2.78	14.7
510	male	19	9	5	no	no	no	yes	Class I	Non-ext	Preadj bkt	29	0.95	5.05
511	male	16	2	3	no	no	yes	yes	Class I	Non-ext	Standard bkt	55	1.91	16.77
512	male	14	6.5	3	no	no	yes	yes	Class II	Ext	Standard bkt	21	1.67	9.49

Table A The associated factors, amount of EARR and percentage of EARR of 564 teeth (continued)

idno	Sex	Age	Overjet	Overbite	Abnormal root shape	Trauma	Tongue trusting habit	Allergic condition	Type of malocclusion	Tx plan	Bracket type	Tx duration	EARR (mm)	Percentage of EARR (%)
513	male	23	9	5	no	no	no	no	Class II	Ext	Preadj bkt	30	2.07	12.17
514	male	18	8	5	no	no	no	no	Class I	Ext	Preadj bkt	40	1.87	11.77
515	male	14	4	4	no	no	no	yes	Class I	Non-ext	Standard bkt	32	3.52	27.42
516	male	15	4	5	no	no	no	no	Class I	Non-ext	Standard bkt	12	0.08	0.38
517	male	15	5	7	no	no	no	no	Class II	Non-ext	Preadj bkt	25	0.7	3.99
518	male	14	-1	-1	no	no	no	no	Class I	Ext	Preadj bkt	24	0.11	0.68
519	male	16	5	4	no	no	no	no	Class I	Ext	Preadj bkt	41	2.03	11.27
520	male	18	1	1	no	no	no	no	Class I	Ext	Standard bkt	20	2.89	17.37
521	male	15	3	2	no	yes	no	no	Class I	Ext	Preadj bkt	25	2.33	16.35
522	male	13	4	4	no	no	no	no	Class I	Ext	Standard bkt	26	3.54	20.74
523	male	20	0	1	no	no	no	no	Class I	Ext	Preadj bkt	40	1.28	8.1
524	male	22	1	0	yes	no	no	no	Class I	Non-ext	Standard bkt	22	1.59	10.6
525	male	14	6.5	3	no	yes	no	no	Class I	Non-ext	Standard bkt	25	0.1	0.62
526	male	14	8	3	no	no	no	no	Class I	Ext	Preadj bkt	23	1.06	5.93
527	male	14	11	5	yes	no	no	no	Class II	Ext	Preadj bkt	30	6.26	27.43
528	female	15	1.5	1	no	no	yes	no	Class I	Ext	Standard bkt	29	0.07	0.38
529	female	18	4	5	no	no	no	no	Class I	Ext	Standard bkt	29	1.31	8.69
530	female	16	5	2	yes	no	no	no	Class I	Ext	Standard bkt	22	1.48	7.81
531	female	20	4	5	yes	no	no	no	Class I	Ext	Preadj bkt	42	5.24	27.29
532	female	35	1.5	0.5	no	no	yes	yes	Class I	Ext	Preadj bkt	31	1.08	6.33
533	female	17	4	5	no	no	no	no	Class II	Non-ext	Preadj bkt	19	0.6	4.05
534	female	24	1	1	no	no	yes	no	Class I	Ext	Standard bkt	27	2.61	15.35
535	female	14	4	2	no	no	yes	no	Class I	Ext	Preadj bkt	22	2.28	12.65
536	female	24	3	2	yes	no	yes	no	Class I	Non-ext	Standard bkt	20	3.59	23.7
537	female	18	3	2	no	no	yes	no	Class I	Non-ext	Standard bkt	22	2.77	17.38
538	female	21	5	4.5	no	no	yes	no	Class I	Non-ext	Standard bkt	26	1.94	11.49
539	female	22	-2	-3	no	no	no	no	Class III	Non-ext	Preadj bkt	43	1.84	9.66
540	female	17	-1	0.5	no	no	yes	no	Class III	Non-ext	Preadj bkt	26	1.24	7.58
541	female	24	4	6	no	no	yes	no	Class I	Non-ext	Standard bkt	25	1.83	11.46
542	female	18	2	1	yes	no	yes	no	Class I	Ext	Preadj bkt	27	2.04	12.57
543	female	23	6	7	no	no	no	no	Class I	Non-ext	Standard bkt	9	1.46	7.73
544	female	18	9	2	no	no	no	no	Class II	Ext	Preadj bkt	30	1.21	6.71

Table A The associated factors, amount of EARR and percentage of EARR of 564 teeth (continued)

idno	Sex	Age	Overjet	Overbite	Abnormal root shape	Trauma	Tongue trusting habit	Allergic condition	Type of malocclusion	Tx plan	Bracket type	Tx duration	EARR (mm)	Percentage of EARR (%)
545	female	14	4.5	3	no	no	yes	no	Class I	Ext	Preadj bkt	26	1.95	11.75
546	female	10	5	5	no	no	no	yes	Class II	Ext	Preadj bkt	23	0.18	1.39
547	female	17	-1	4	no	no	yes	no	Class I	Non-ext	Preadj bkt	21	0.41	3.15
548	female	19	6.5	3	no	no	no	no	Class I	Ext	Preadj bkt	28	1.72	11.5
549	male	20	2.5	3	no	no	no	yes	Class I	Ext	Preadj bkt	30	4.95	24.78
550	female	17	4	3	no	no	no	yes	Class I	Ext	Preadj bkt	24	3.57	21.3
551	male	14	1	2	no	no	no	no	Class I	Ext	Preadj bkt	15	2.06	11.99
552	female	17	4	2	no	no	no	no	Class I	Ext	Preadj bkt	28	0.78	5.57
553	female	18	2	2	no	no	no	no	Class I	Ext	Preadj bkt	31	0.49	3.77
554	female	11	4	5	no	no	no	no	Class I	Ext	Preadj bkt	33	0.83	5.03
555	female	13	4.5	4.5	no	no	no	no	Class I	Ext	Preadj bkt	25	2.34	14.1
556	female	17	6	4	no	yes	no	yes	Class I	Non-ext	Preadj bkt	21	0.83	5.83
557	female	13	2.5	0.5	no	no	yes	no	Class I	Ext	Preadj bkt	19	1.49	9.35
558	male	11	5	4.5	yes	no	no	yes	Class I	Ext	Standard bkt	50	4.47	28.55
559	female	24	10	7	no	no	yes	yes	Class II	Ext	Preadj bkt	34	1.63	9.64
560	female	11	6	2	no	no	no	yes	Class I	Ext	Preadj bkt	27	2.77	16.67
561	female	15	8	0	no	no	yes	no	Class II	Ext	Preadj bkt	48	2.27	15.07
562	male	14	5	3	no	no	no	no	Class I	Ext	Preadj bkt	36	2.22	10.85
563	female	13	7	5	no	no	no	no	Class II	Ext	Preadj bkt	39	1.28	9.56
564	female	13	10	4	no	no	no	no	Class II	Ext	Preadj bkt	52	2.79	19.8

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Position held and office	
2000-2004	Dental health section, Wiang Chiang Rung Hospital, Chiangrai
2004-2005	Dental department Overbrook Hospital, Chiangrai

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