

Appendix

Table AI. Coefficients of intra-class correlation (ICC) between the double determinations performed by Raija Pentinpuro (RP I and RP II) and ICC values and the mean of the differences (Diff) (mm) in tooth crown heights between the second measurements of the double determinations performed by RP (RP II) and Raija Lähdesmäki (RL II).

Tooth	RP I–RP II ICC	RP II–RL II ICC	RP II–RL II Diff
<i>Maxillary</i>			
Right second molar	0.894	0.852	−0.27
First molar	0.528	0.424	−0.86
Second premolar	0.802	0.725	+0.02
First premolar	0.685	0.685	+0.33
Canine	0.935	0.824	−0.51
Lateral incisor	0.887	0.756	−0.50
Central incisor	0.891	0.780	−0.61
Left central incisor	0.917	0.731	−0.76
Lateral incisor	0.897	0.613	−0.79
Canine	0.936	0.776	−0.80
First premolar	0.526	0.803	+0.22
Second premolar	0.767	0.683	+0.30
First molar	0.872	0.647	−0.51
Second molar	0.847	0.757	−0.41
<i>Mandibular</i>			
Right second molar	0.655	0.864	−0.22
First molar	0.613	0.791	−0.44
Second premolar	0.718	0.861	+0.01
First premolar	0.711	0.726	−0.04
Canine	0.678	0.806	−0.08
Lateral incisor	0.500	0.682	+0.09
Central incisor	0.722	0.638	+0.08
Left central incisor	0.820	0.607	+0.10
Lateral incisor	0.864	0.686	+0.31
Canine	0.915	0.754	−0.12
First premolar	0.926	0.846	−0.28
Second premolar	0.868	0.742	−0.43
First molar	0.926	0.666	−0.72
Second molar	0.939	0.713	−0.73

Table AII. Means of the differences (Diff) (mm) in tooth crown heights between the right and left sides of the jaws in the population control, 45,X and 45,X/46,XX females.

Difference	45,X females			45,X/46,XX females			Population control females		
	Mean (SD)	<i>n</i>	<i>p</i> ^a	Mean (SD)	<i>n</i>	<i>p</i> ^b	Mean (SD)	<i>n</i>	<i>p</i> ^c
<i>Maxillary</i> ^d									
Diff 17–27	0.177 (0.69)	60	0.051	-0.030 (0.48)	12	0.834	-0.126 (0.86)	15	0.580
Diff 16–26	0.215 (0.72)	74	0.012*	0.066 (0.64)	11	0.739	-0.162 (0.69)	16	0.363
Diff.15–25	0.021 (0.82)	68	0.836	0.118 (0.63)	12	0.526	0.011 (0.62)	14	0.946
Diff 14–24	-0.040 (0.81)	73	0.674	-0.130 (1.09)	10	0.715	-0.244 (1.19)	14	0.457
Diff 13–23	-0.107 (0.74)	85	0.188	0.234 (0.76)	13	0.286	0.190 (0.72)	24	0.207
Diff 12–22	0.006 (0.85)	81	0.951	0.492 (0.60)	14	0.009**	0.161 (0.83)	22	0.373
Diff 11–21	0.086 (0.60)	84	0.192	0.239 (0.34)	14	0.022*	0.005 (0.42)	26	0.956
<i>Mandible</i> ^e									
Diff 31–41	-0.099 (0.50)	88	0.068	0.268 (0.41)	14	0.029*	-0.048 (0.42)	34	0.509
Diff 32–42	-0.270 (0.50)	87	0.000***	-0.330 (0.79)	14	0.140	-0.251 (0.58)	34	0.017*
Diff 33–43	-0.195 (0.91)	86	0.051	-0.188 (0.93)	12	0.497	-0.196 (1.06)	30	0.319
Diff 34–44	-0.094 (0.68)	80	0.223	-0.303 (0.74)	11	0.205	-0.298 (0.90)	26	0.104
Diff 35–45	-0.187 (0.63)	74	0.012*	-0.377 (0.95)	11	0.219	-0.246 (1.01)	14	0.376
Diff 36–46	-0.033 (0.55)	60	0.642	-0.192 (0.84)	9	0.510	-0.210 (0.70)	9	0.397
Diff 37–47	-0.074 (0.72)	59	0.435	-0.045 (0.70)	10	0.843	-0.109 (0.97)	16	0.661

Results were not considered statistically significant, when $p \geq 0.05$. * = $p < 0.05$; ** = $p < 0.01$; *** = $p \leq 0.001$.

^a Statistical significance of the mean of the differences in tooth crown heights between the right and left sides of the jaws in the 45.X females,

^b in the 45.X/46.XX females and ^c in the population control females.

^d Mean of the differences in tooth crown heights between the second molars (Diff 17–27)...and central incisors (Diff 11–21) on the right and left sides of the maxilla.

^e Mean of the differences in tooth crown heights between the central incisors (Diff 41–31)... and second molars (Diff 47–37) on the right and left sides of the mandible.

Table AIII. Mean fluctuating asymmetry (FA) in tooth crown heights between the right and left sides of the jaws in the population control, 45,X and 45,X/46,XX females.

Difference	45,X females			45,X/46,XX females			Population control females	
	FA (SD)	<i>n</i>	<i>p</i> ^a	FA (SD)	<i>n</i>	<i>p</i> ^b	FA (SD)	<i>n</i>
<i>Maxillary</i> ^c								
Diff 17–27	0.067 (0.05)	60	0.999	0.037 (0.33)	12	0.103	0.066 (0.05)	15
Diff 16–26	0.065 (0.05)	74	0.529	0.054 (0.03)	11	0.793	0.049 (0.04)	16
Diff,15–25	0.077 (0.06)	68	0.065	0.048 (0.04)	12	0.199	0.041 (0.04)	14
Diff 14–24	0.066 (0.06)	73	0.209	0.089 (0.04)	10	0.447	0.093 (0.06)	14
Diff 13–23	0.058 (0.04)	85	0.999	0.052 (0.04)	13	0.869	0.058 (0.03)	24
Diff 12–22	0.068 (0.05)	81	1.000	0.060 (0.06)	14	0.838	0.068 (0.05)	22
Diff 11–21	0.044 (0.04)	84	0.141	0.031 (0.03)	14	0.385	0.029 (0.03)	26
<i>Mandible</i> ^d								
Diff 31–41	0.058 (0.04)	88	0.035*	0.051 (0.03)	34	0.792	0.040 (0.03)	14
Diff 32–42	0.059 (0.04)	87	0.939	0.080 (0.06)	34	0.254	0.056 (0.04)	14
Diff 33–43	0.085 (0.06)	86	0.735	0.079 (0.05)	30	0.949	0.075 (0.07)	12
Diff 34–44	0.062 (0.05)	80	0.728	0.072 (0.04)	26	0.788	0.070 (0.06)	11
Diff 35–45	0.062 (0.05)	74	0.586	0.077 (0.08)	14	0.671	0.078 (0.07)	11
Diff 36–46	0.053 (0.03)	60	0.991	0.079 (0.04)	9	0.124	0.051 (0.04)	9
Diff 37–47	0.066 (0.05)	59	0.996	0.059 (0.04)	16	0.926	0.065 (0.07)	10

Results were not considered statistically significant, when $p \geq 0.05$. * = $p < 0.05$; ** = $p < 0.01$; *** = $p \leq 0.001$.

^a 45,X females vs population controls.

^b 45,X females vs. 45,X/46,XX females.

^c Mean fluctuating asymmetry in tooth crown heights between the second molars (Diff 17–27)... and central incisors (Diff 11–21) on the right and left sides of the maxilla.

^d Mean fluctuating asymmetry in tooth crown heights between the central incisors (Diff 41–31)... and second molars (Diff 47–37) on the right and left sides of the mandible.

Table AIV. Possible effect of age on tooth crown heights in the various groups. Age range, mean age, median of ages.

Study group	Age range (years)	Mean age (years)	Median (years)	MDC range (mm)
45,X females	6.2–46.4	18.9	18.4	0.3–0.8
45,X/46,XX females	7.1–41.0	23.4	20.8	1.1–1.2
Population control females	9.7–59.1	34.4	35.5	0.8–1.0

MDC, mean of differences in tooth crown heights between the younger and older age groups.

Table AV. Means of differences in crown heights (Diff) (mm) between the age groups and percentage differences (%) in the population control, 45,X and 45,X/46,XX females.

Tooth	45,X females		45,X/46,XX		Control females	
	Diff	%	Diff	%	Diff	%
<i>Maxilla</i>						
Right canine					0.84	7.3
Lateral incisor	0.69	6.8				
Central incisor	0.69	6.6			0.98	8.9
Left central incisor					0.92	8.4
Second molar			1.07	10.6		
<i>Mandible</i>						
Right second premolar	0.40	4.6				
First premolar	0.62	6.7				
Canine	0.51	5.4				
Lateral incisor	0.41	5.2				
Central incisor	0.36	8.3				
Left lateral incisor	0.31	4.1				
Canine	0.77	8.2	1.06	10.1		
First premolar	0.56	6.7	1.24	13.0		
Second molar			1.92	21.4		

Figure A1. Mean permanent tooth crown heights in the population control, 45,X and 45,X/46,XX females.

