

APPENDICES

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

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APPENDIX A

DATA DISTRIBUTION

Normality test and box plot of the shear bond strength values are presented in Table 10 and Figure 32 respectively.

Table 10 Test of normality of the shear bond strength values

	Time (seconds)	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Shear bond strength (MPa)	1	.124	20	.200*	.964	20	.619
	2	.135	20	.200*	.916	20	.084
	3	.172	20	.122	.915	20	.078
	4	.085	20	.200*	.986	20	.987
	5	.131	20	.200*	.963	20	.615
	6	.138	20	.200*	.961	20	.569
	20	.147	20	.200*	.919	20	.094

a. Lilliefors Significance Correction

*. This is a lower bound of the true significance.

Significance level at $p < 0.05$

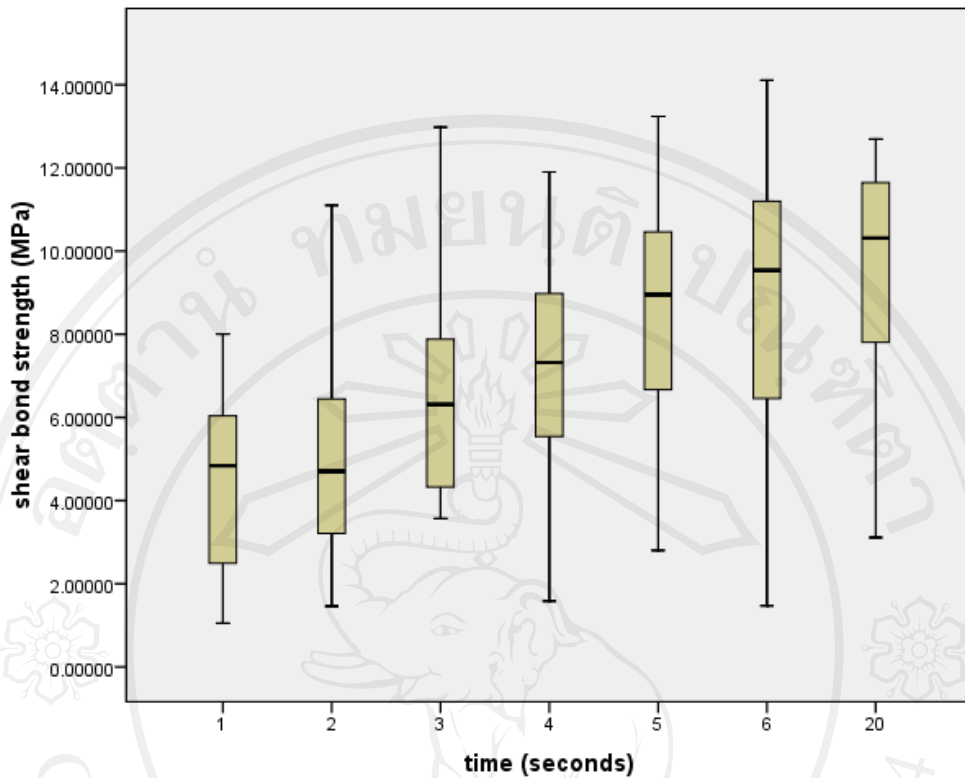


Figure 32 Box plot of data of shear bond strength values

APPENDIX B

HOMOGENEITY OF VARIANCE

Table 11 Test of Homogeneity of Variance of the shear bond strength values

		Levene Statistic	df1	df2	Sig.
Shear bond strength (MPa)	Based on Mean	.810	6	133	.564
	Based on Median	.606	6	133	.725
	Based on Median and with adjusted df	.606	6	120.385	.725
	Based on trimmed mean	.790	6	133	.579

Significance level at $p < 0.05$

APPENDIX C

SHEAR BOND STRENGTH VALUES

Table 12 The raw data of shear bond strength in each group

n	Shear bond strength (MPa)						
	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7
1	3.92177	7.13275	4.25897	5.23022	6.56923	6.42261	12.4248
2	1.05399	4.54645	3.83158	1.58111	9.18529	9.56185	3.11456
3	2.35989	4.26298	7.41497	8.19498	5.04866	7.97947	9.6207
4	2.04732	1.91477	3.86930	4.50390	7.30370	13.17605	12.18342
5	4.67525	5.29928	8.21782	7.88976	9.00923	1.46838	11.85525
6	7.18303	4.59285	6.45682	7.06897	10.59296	4.43316	6.29208
7	2.40614	1.46207	5.47331	7.41027	2.80040	8.4741	12.3995
8	3.82608	3.32043	3.56804	9.61046	8.89969	3.71817	8.35526
9	1.77641	2.76248	3.72320	7.23368	7.22654	4.11919	8.36535
10	6.26065	4.15846	9.78650	3.19429	10.27757	9.51736	11.27086
11	8.00190	5.41517	5.17996	4.21680	7.92608	10.91382	12.69171
12	2.58418	4.81345	6.25605	6.37811	3.40666	6.48306	6.75815
13	6.53194	3.09996	10.48046	9.98152	10.71205	10.2803	10.88166
14	5.56187	6.42596	6.36589	5.85030	11.31938	11.48851	10.14108
15	3.18778	5.85475	5.88653	8.33932	13.23765	14.11006	9.636
16	5.07919	2.64792	10.00707	7.49406	10.44651	12.33743	10.54723

Table 12 (continued)

n	Shear bond strength (MPa)						
	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7
17	7.52692	9.93873	4.39049	11.90068	10.47546	8.0595	7.25891
18	5.00375	11.10132	12.97778	11.51016	9.71568	10.38716	7.03611
19	5.18173	10.69202	6.37127	10.20746	6.76419	10.30175	10.49169
20	5.81878	6.46270	7.54152	6.07302	6.03732	11.96176	11.43677

Group 1: cured with LED for 2 seconds

Group 2: cured with LED for 4 seconds

Group 3: cured with LED for 6 seconds

Group 4: cured with LED for 8 seconds

Group 5: cured with LED for 10 seconds

Group 6: cured with LED for 12 seconds

Group 7 (control group): cured with halogen lamp for 40 seconds

APPENDIX D

ADHESIVE REMNANT INDEX SCORES

Table 13 The raw data of adhesive remnant index scores in each group

n	Adhesive remnant index score						
	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7
1	1	1	3	2	1	1	1
2	1	1	1	1	0	1	1
3	2	1	1	1	2	1	1
4	1	1	2	2	1	0	1
5	1	2	2	1	1	1	1
6	1	3	1	0	0	1	2
7	2	3	0	1	2	1	1
8	2	2	0	1	1	2	1
9	1	2	1	1	1	2	1
10	1	1	2	2	1	1	1
11	1	1	2	1	0	0	1
12	1	2	1	0	2	2	2
13	1	1	1	1	1	0	1
14	2	2	1	1	1	1	1
15	2	2	1	0	1	1	1
16	2	2	1	2	1	1	2
17	2	1	1	1	1	1	1

Table 13 (continued)

n	Adhesive remnant index score						
	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7
18	2	1	1	0	1	1	1
19	2	1	1	0	1	1	2
20	2	2	2	1	1	1	1

Group 1: cured with LED for 2 seconds

Group 2: cured with LED for 4 seconds

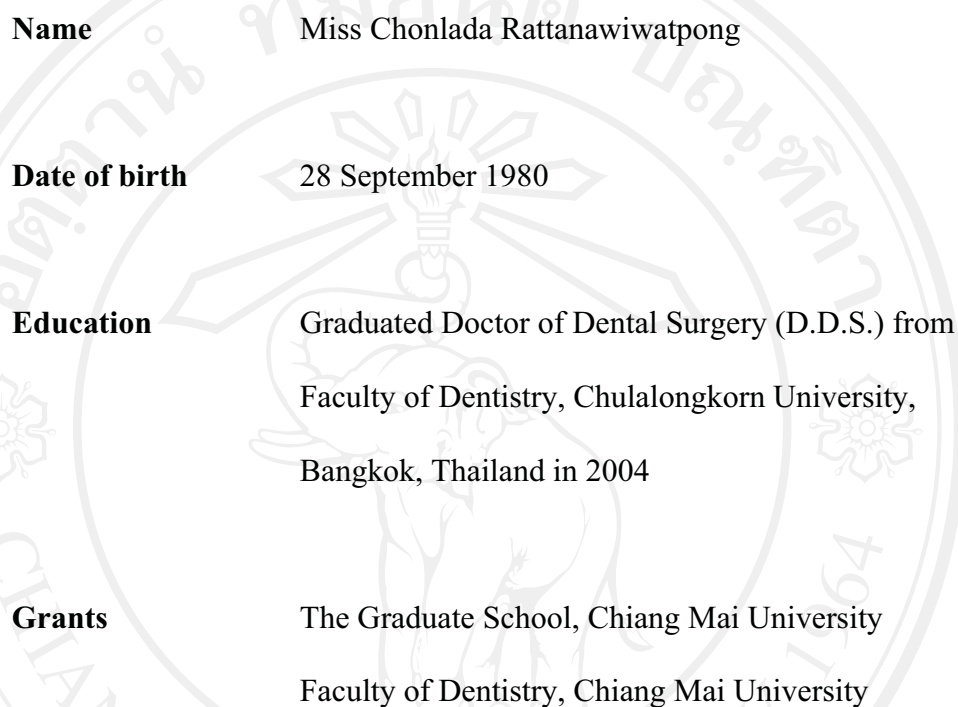
Group 3: cured with LED for 6 seconds

Group 4: cured with LED for 8 seconds

Group 5: cured with LED for 10 seconds

Group 6: cured with LED for 12 seconds

Group 7 (control group): cured with halogen lamp for 40 seconds

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