

Can a school-based intervention improve oral health related quality of life in Brazilian children?

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Reliability of Study Questionnaires:

The internal reliability of all questionnaires was assessed at 3 time points (baseline, 2 weeks and 3 months) by Cronbach's alpha coefficients. The Cronbach's alpha coefficients was excellent for the Brazilian CPQ₈₋₁₀ e CPQ₁₁₋₁₄ and good for SOC-13 measure.

Table 1 Internal Reliability of Study Questionnaires

Variable	Measure	Cronbach's alpha	Cronbach's alpha	Cronbach's alpha
		T1	T2	T3
Sense of coherence (SOC)	SOC-13	0.626	0.640	0.705
Oral-health-related quality of life (OHRQoL)	CPQ ₈₋₁₀	0.902	0.918	0.904
Oral-health-related quality of life (OHRQoL)	CPQ ₁₁₋₁₄	0.912	0.894	0.874

Test-retest reliability of all questionnaires was assessed among 3 time points, using only the control group's answers, by intraclass correlation coefficients (ICCs). The ICCs of all measures were statistically significant at each timepoint.

Table 2 Test-Retest Reliability of Study Questionnaires

Variable	Measure	Intraclass correlation coefficients	Intraclass correlation coefficients	Intraclass correlation coefficients
		T1 to T2	T1 to T3	T2 to T3
SOC	SOC-13	0.707**	0.725**	0.751**
OHRQoL	CPQ ₈₋₁₀	0.880**	0.806**	0.867**
OHRQoL	CPQ ₁₁₋₁₄	0.884**	0.718**	0.805**

**Correlation coefficient is significant at the 0.01 level (2-tailed).

Abbreviations: SOC, sense of coherence; OHRQoL, oral-health-related quality of life; T1, baseline; T2, 2 weeks after the intervention; T3, 3 months after the intervention.

Statistical tables:

1. Type III Tests of Fixed Effects for SOC at T2

Parameter	df	Z	Sig.
Intercept	1	190.266	0.000
Group	1	4.666	0.031
SOC-T1	1	149.686	0.000

2. Estimates of Effects for SOC at T2

Parameter	Estimate	Std. Error	Z	Sig.	95%CI
Intercept	32.86	1.44	79.63	0.000	30.15-35.81
Group	0.98	0.01	-2.14	0.032	0.96-0.99
SOC-T1	1.01	0.00	11.28	0.000	1.01-1.01

3. Type III Tests of Fixed Effects for SOC at T3

Parameter	df	Z	Sig.
Intercept	1	130.558	0.000
Group	1	6.416	0.012
SOC-T1	1	139.212	0.000

4. Estimates of Effects for SOC at T3

Parameter	Estimate	Std. Error	Z	Sig.	95%CI
Intercept	31.45	1.79	60.49	0.000	28.13-35.17
Group	0.97	0.01	-2.50	0.012	0.95-0.99
SOC-T1	1.01	0.00	9.43	0.000	1.01-1.01

5. Type III Tests of Fixed Effects for CPQ at T2

Parameter	df	Z	Sig.
Intercept	1	2.226	0.133
Group	1	2.763	0.097
CPQ-T1	1	483.862	0.000

6. Estimates of Fixed and Random Effects for CPQ at T2

Parameter	Estimate	Std. Error	Z	Sig.	95%CI
Intercept	4.50	0.27	24.87	0.000	4.00-5.07
Group	1.14	0.10	1.55	0.121	0.96-1.35
CPQ-T1	1.04	0.00	46.70	0.000	1.04-1.04
Intercept [subject = schools] variance	0.08	0.04	-	0.005	0.03-0.21

7. Type III Tests of Fixed Effects for CPQ at T3

Parameter	df	Z	Sig.
Intercept	1	4.320	0.038
Group	1	6.679	0.010
CPQ-T1	1	260.937	0.000

8. Estimates of Fixed and Random Effects for CPQ at T3

Parameter	Estimate	Std. Error	Z	Sig.	95%CI
Intercept	3.82	0.23	22.04	0.000	3.39-4.30
Group	1.25	0.10	2.72	0.007	1.06-1.48
CPQ-T1	1.04	0.00	38.58	0.000	1.03-1.04
Intercept [subject = schools] variance	0.08	0.03	-	0.001	0.03-0.18

Full hypothesized model adapted from Wilson and Cleary

