

Reproducibility of the Oral Health Impact Profile Survey in Children

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Driven to Discover**

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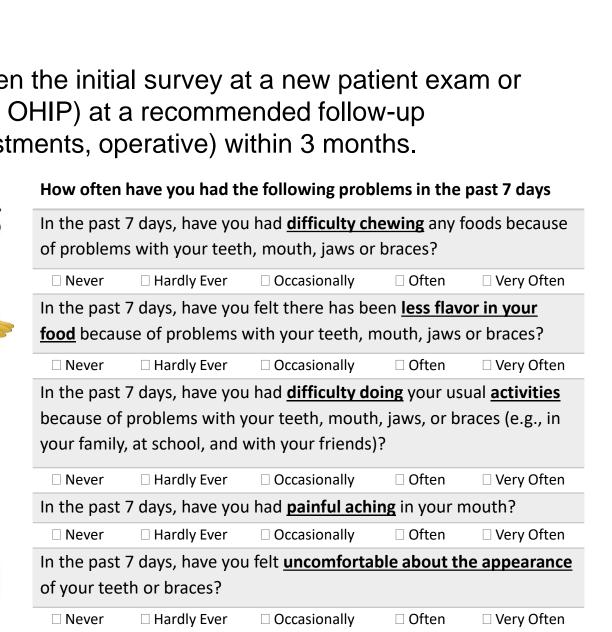
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Introduction

- Patient-reported oral health-related quality of life (OHRQoL) is an emerging clinical assessment approach to quantify the holistic health condition of patients in dental practice and in public health environments.
- Hypothesis: A newly modified English version of the OHIP-5_{SCHOOL} questionnaire for children (Ages 9-14) is a reproducible measure of OHRQoL.

Materials and Methods

- Oral Health Impact Profile (OHIP-5) questionnaire was modified (OHIP-5_{SCHOOL}) to assess OHRQoL in the pediatric population.
- 32 English-speaking children aged 9-14 were given the initial survey at a new patient exam or recall (1st OHIP), then given the same survey (2nd OHIP) at a recommended follow-up appointment (sealants, orthodontic consults/adjustments, operative) within 3 months.
- OHIP answers were assigned a score from 1-5:
 Never = 1
 Hardly Ever = 2
 Occasionally =3
 Often = 4
 Very Often = 5
- Statistical analysis: Medcalc (v23.1.7, Ostend, Belgium) and Microsoft Excel (v2501, Washington, USA).



Results Table 1. Mean OHIP Score Figure 1. Intra Class Coefficient (95% Confidence Interval) Activities Appearance Chewing Pain Score 1.31 Intra-Class 1.25 OHIP scores were consistently low, indicating a lower OHRQoL burden. This may have resulted in a small number of patients having a disproportionate effect on the ability to validate this survey. Appearance Chewing The mean follow-up time for the 2nd OHIP was 23 days,. Intraclass correlation coefficient (95% confidence interval) showed moderate reliability within the chewing domain (0.71) and the composite score (0.62). Table 3 Table 2. Agreement of Domains Between 1st OHIP and 2nd OHIP (%) a) 1st OHIP: Average Inter-Item Correlation = 0.0009642 **b)** 2nd OHIP: Average Inter-Item Correlation = 0.2359 Activities Appearance Chewing Flavor 0.2243 Diff by 1 OHIP -0.1862Appearance Appearance Diff by >1 OHIF 0.2320 Chewing -0.009540.09759 -0.1549 There was a high level of agreement within the domains In this sample of children, the low correlation suggests the domains (questions) contribute to the overall OHIP assessment score independently.

Conclusions

- The OHIP-5_{SCHOOL} had low reproducibility in this cohort.
- The overall low OHRQoL burden (scores) may have contributed to this finding.
- Next steps will be to assess a broader population of OHIP burden for test-retest.

