

Evaluation of the impact of restorative treatment on patient reported outcomes using OHIP-5 SCHOOL

Division of Pediatric Dentistry, University of Minnesota, MN

Introduction

Pediatric dental assessment has historically focused on disease presence/absence.

of-life domains.



- evaluated
- outcomes than those who had received no received no restorative or esthetic restorative treatment.

Materials and Methods

- A 5-item questionnaire (Oral Health Impact Profile/OHIP-5SCHOOL) designed for school-aged children was routinely administered to English-speaking children ages 9 and older at the University of Minnesota Pediatric Dental Clinic.
- The survey instrument evaluated patients in four quality of life domains: oral function, orofacial appearance, orofacial pain and psychosocial impact.
- Time to complete the questionnaire was measured for each participant.
- Patient demographics captured in the EHR such as age, gender, insurance type (public vs private) were also collected.
- OHIP scores were compared between patients with a history of esthetic/tooth-colored restorative treatment, non-esthetic treatment, and no history of dental treatment.
- Statistical analysis was performed to evaluate variables predictive of patient responses and differences between the groups.

NeverHardly EverOccasionallyIn the past 7 days, have you felt there has been less flavor with your teeth, mouth, jaws or braces?NeverNeverHardly EverOccasionallyIn the past 7 days, have you had difficulty doing your usua your teeth, mouth, jaws, or braces (e.g., in your family, at so NeverNeverNeverHardly EverOccasionallyIn the past 7 days, have you had painful aching In the past 7 days, have you had painful aching in your mode NeverNeverNeverHardly EverOccasionallyIn the past 7 days, have you felt uncomfortable about the NeverNeverNeverHardly EverOccasionally			
with your teeth, mouth, jaws or braces? Never Hardly Ever Occasionally In the past 7 days, have you had difficulty doing your usual your teeth, mouth, jaws, or braces (e.g., in your family, at some teeth, mouth, jaws, or braces (e.g., in your family, at some teeth, mouth, jaws, or braces (e.g., in your family, at some teeth, mouth, jaws, or braces (e.g., in your family, at some teeth, mouth, jaws, or braces (e.g., in your family, at some teeth, mouth, jaws, or braces (e.g., in your family, at some teeth, mouth, jaws, or braces (e.g., in your family, at some teeth, mouth, jaws, or braces (e.g., in your family, at some teeth, mouth, jaws, or braces (e.g., in your family, at some teeth, mouth, jaws, or braces (e.g., in your family, at some teeth, mouth, jaws, or braces (e.g., in your family, at some teeth, mouth, jaws, or braces (e.g., in your family, at some teeth, mouth, jaws, or braces (e.g., in your family, at some teeth, mouth, jaws, or braces (e.g., in your family, at some teeth, mouth, jaws, or braces (e.g., in your family, at some teeth, mouth, jaws, have you had painful aching in your mouth teeth, mouth, jaws, have you had painful aching in your mouth teeth, mouth, jaws, have you felt uncomfortable about the some teeth, mouth, jaws, have you felt uncomfortable about the some teeth, mouth, jaws, and some teeth,	lever Hardly Ever	Occasionally	Often
In the past 7 days, have you had <u>difficulty doing</u> your usual your teeth, mouth, jaws, or braces (e.g., in your family, at s Never Hardly Ever Occasionally In the past 7 days, have you had <u>painful aching</u> in your mo Never Hardly Ever Occasionally In the past 7 days, have you felt <u>uncomfortable about the</u>			<u>r in your fo</u>
your teeth, mouth, jaws, or braces (e.g., in your family, at some of the past 7 days, have you had painful aching in your more than the past 7 days, have you fail the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you felt uncomfortable about the some of the past 7 days, have you have	Never Hardly Ever	Occasionally	Often
In the past 7 days, have you had painful aching in your mo Never Hardly Ever Occasionally In the past 7 days, have you felt <u>uncomfortable about the</u>			
Never Hardly Ever Occasionally In the past 7 days, have you felt <u>uncomfortable about the</u>	Never Hardly Ever	Occasionally	Often
In the past 7 days, have you felt <u>uncomfortable about the</u>	lays, have you had paint	ful aching in your m	outh?
	Never Hardly Ever	Occasionally	Often
Never Hardly Ever Occasionally	lays, have you felt <u>unco</u>	mfortable about the	appearan
	Never Hardly Ever	Occasionally	Often



Bares A, Bottner D, Jones RS



UNIVERSITY OF MINNESOTA

School of Dentistry **Driven to Discover**^{as}

Data evaluation and the study included evaluation of 230 responses to the OHIP questionnaire. The median time to complete the questionnaire was ~ 60 seconds.

OHIP responses across all five questions assessed demonstrate a non-parametric distribution with a majority of participants answering 'Never' or "Hardly Ever.'

• A Kruskal-Wallis test was conducted to compare the median overall OHIP score based on patients age (p=.19), gender (p=.52), insurance status (p=.27) and history of esthetic or non-esthetic restorative treatment (p=.40). The test indicated that for each, there was no statistically significant difference between the groups. There was positive inter-item correlation between all items and a Cronbach alpha score of .71 indicating internal consistency across

ppearance_Numerical Chewin	ig_Numerical	Flavor_Numerical	Pain_Numerical
0.3094	0.3857	0.1597	0.5518
	0.2274	0.2151	0.4306
		0.2706	0.4378
			0.4017

0.3390

2. Cronbach's alpha with standardized variables

	0.7194
ence limit	0.6676

UNIVERSITY OF MINNESOTA Driven to Discover^{sed}