

## **Short Research Article**

### **Children's attitude and preferences of Pediatric dentist's attire and dental clinic set up in pediatric dental practice.**

#### **Abstract**

BACKGROUND: The biggest issue for any paediatric dentist, despite the many advancements in the field of paediatric dentistry, is to reduce patient anxiety associated with dental visits and encourage them to accept the necessary care. In order to establish a good relationship with the child, the dentist's presentation is crucial.

AIM: To assess the children's perception and preference towards the dentist's appearance, dental clinic set-up.

MATERIALS AND METHOD: A questionnaire designed to evaluate children's attitudes and preferences towards dentists was distributed in public schools and was completed by 365 children (459 males, 553 females) aged between 7–13 years. Data collected was entered into a computer and analyzed using SPSS software. Descriptive and inferential analyses was carried out.

RESULTS: For about 526 children (52%) it was their first visit while 486 children (48%) had been to the dentist before. Children's preferred attire for receptionist was casual clothes (50.2%) while for the dentist, most of them

(42.7%) preferred scrubs. Most (69.1%) of the children were not scared with the use of PPE kit.

**CONCLUSION:** The findings of this study can assist dentists in determining what to wear when working with kids to lessen their anxiety and enhance healthcare delivery.

**Keywords :** Anxiety, attire, Dental clinic, children's preferences

## **INTRODUCTION**

In paediatric dentistry, a dentist's capacity to create high-quality work is influenced by interactions with the patients as well as the employment of the best processes and techniques, which can enhance the working environment and motivate patients.<sup>1</sup> Children establish an impression of a dentist based on their looks, grooming, and hygiene before they can communicate verbally. Every word they utter, every gesture they make, and every movement they make are frequently observed and recorded. It is crucial to establish a strong rapport with the child during his initial visit in order to foster a friendly atmosphere where he won't feel intimidated.<sup>2</sup>

It is simpler for a child to deal with some anxiety-inducing stimuli when they feel comfortable around the dentist and the dental office, which allows efficient and prompt treatment. The way a dentist presents himself is an important consideration in this. Consequently, the dentist's attire must be appropriate.<sup>3</sup>

The rapid global spread of the novel coronavirus that causes Severe Acute Respiratory Syndrome 2 (SARS-CoV-2) during the first semester of 2020 was notable. This posed various difficulties in medical fields unrelated to the control of infectious diseases, such as dentistry.

It can be difficult to provide children with dental treatment during the COVID-19 pandemic, and particularly during the heightened societal stigma.<sup>4</sup> The change in the dentist attire can make the child more anxious. Hence the aim of this study was to assess the child's perception and preference towards dentist attire and dental clinic set-up.

## MATERIALS AND METHODS

### Study design

This cross-sectional survey was conducted to assess Children's attitude and preferences of dentist's attire and dental clinic set up in pediatric dental practice. It was reviewed and approved by IEC (Institutional ethical committee) of D.Y. Patil University School of Dentistry (IREB/2022/PEDO/04).

### Sample size

The sample size for the study was estimated to be 1000 at the 95% confidence interval, obtained by a response rate of 88%.

### Inclusion criteria

1. Children in the age range of 7-13 years
2. Children visiting to the Department of Pediatric and Preventive Dentistry or any pediatric dental clinic.

### Exclusion criteria

1. Children whose parents did not give consent
2. Children who are cognitively disabled and unable to complete the survey independently.

## PROCEDURE

Children reporting to the department of Paediatric and Preventive dentistry in the age range of 7- 13 years were included in the study.

The participants were explained about the purpose and scope of the research study.

A written consent **wa** obtained once they were selected for the study.

A validated and structured questionnaire (google form/ physical copies) was administered to the children to be filled under supervision.

The questionnaire was close-ended divided into 2 parts: 1. Demographic details, 2. Children's preferences towards Dentist's attire and dental clinic setup. Responses from the participants were recorded, tabulated, and subjected to statistical analysis.

Data collected was entered into a computer and analysed using SPSS software. Descriptive and inferential analyses was carried out along with Chi-square test for correlation of different variables.

## RESULTS

A total of 1012 children (459 males, 553 females) completed and gave back the questionnaire. Of these, 590 children (58.3%) were in the 7-10 years range, 422 children (41.7%) were in the 11-13 years range.

For 526 children (52%) it was their first visit while 486 children (48%) had been to the dentist before. Out of 48% subjects who had been to the dentist before, about 15% had a happy experience while only 3.4% were afraid of dentists.

**When asked whether they were aware of the COVID-19 precautions, about 95% said yes, they were aware of it while 5 % said they weren't aware of the precautions.**

To understand the knowledge of COVID-19 precautions among children they were asked to select the precautions that they thought should be followed. 77.8% children selected all the

precautions necessary for COVID-19 precautions which was found to be statistically significant( $p=0.00$ ).

Majority of children (80.6%) preferred playtime before dental appointment in the waiting area most of them belonging to 7-10 years range while only 19.4% said they do not need playtime similarly about 83.8% also preferred toys in the dental operator while only 16.2% did not prefer. Results for both the questions was found to be statistically significant. ( $p=0.00$ )

When children were asked about their preferred entertainment about 39.6% preferred playing games or with toys while only about 11% preferred reading story books.

Next children were asked about their preference for receptionist and dentist attire. Maximum no of children preferred casual clothes (50.2%) for the receptionist while scrubs (42.7%) for the dentist which was found to be statistically significant ( $p=0.00$ ).

About 71.5% children preferred dentist greeting them while wearing the mask while 28.5% preferred dentist greeting without the masks ( $p=0.00$ ).

When asked how the protective attire that is the PPE kit makes them feel, about 38% felt neutral i.e., it did not influence them and 2.6% said they were very comfortable with its use. 28.5% children were also comfortable while only 7% very uncomfortable and 23.8 had slight discomfort with PPE kit usage.

When they were asked about colour preference for gloves majority of them (36.6%) preferred white gloves, 29% preferred blue gloves and 25.9% preferred pink gloves.

About 43.2% children preferred that the dentist wear cartoon printed mask while 29.4% preferred plain surgical mask and 27.4% preferred N95 mask.

Lastly when asked if they would like to wear coveralls like the dentist and the assistant to make them feel less anxious 49.9% said yes while 50.1% said no though there was no statistically significant difference.

Most of the children who gave responses belonged to 7-10 years of age.

Table 1 Distribution of study participants according to demographic parameters

Distribution of study participants		Frequency	Percent	Chi-square test	p-value
Gender	Male	459	45.4	8.731	0.00*
	Female	553	54.6		
First dental visit	Yes	526	52.0	1.581	0.21
	No	486	48.0		
Experience of the treatment received	First dental visit	526	52.0	975.60	0.00*
	Very happy	142	14.0		
	Happy	153	15.1		
	Neutral	106	10.5		
	Not happy	51	5.0		
	Afraid of it	34	3.4		

Table 2 Distribution of study participants according to child's preferences

Preferences	Options	Frequency	Percent	Chi-square test	p-value
Prefers playtime	Yes	816	80.6	379.84	0.00*
	No	196	19.4		
	Total	1012	100.0		
Toys in operatory	Yes	848	83.8	462.30	0.00*
	No	164	16.2		
	Total	1012	100.0		
Preferred entertainment	Books	111	11.0	183.07	0.00*
	Toys/Games	401	39.6		
	Coloring activities	204	20.2		

	TV	296	29.2		
	Total	1012	100.0		
Receptionist attire	PPE suit	125	12.4	379.78	0.00*
	Colored apron	247	24.4		
	Causal Clothes	508	50.2		
	I am not sure	132	13.0		
	Total	1012	100.0		
Dentist greets	Yes	724	71.5	783.47	0.00*
	No	288	28.5		
	Total	1012	100.0		
Dentist attire	Whitecoat	249	24.6	516.39	0.00*
	Scrubs	432	42.7		
	PPE gown	221	21.8		
	I am not sure	110	10.9		
	Total	1012	100.0		
Protective attire makes you feel?	Very uncomfortable	71	7.0	449.15	0.00*
	Uncomfortable	241	23.8		
	Neutral	386	38.1		
	Comfortable	288	28.5		
	Very comfortable	26	2.6		
	Total	1012	100.0		
Type of mask	Plain mask	298	29.4	394.91	0.00*
	Cartoon printed mask	437	43.2		
	N95 mask	277	27.4		
	Total	1012	100.0		
Gloves color	White	370	36.6	169.66	0.00*
	Blue	293	29.0		
	Pink	262	25.9		
	Other	87	8.6		
	Total	1012	100.0		
Coveralls as power suits	Yes	505	49.9	0.004	0.95
	No	507	50.1		
	Total	1012	100.0		

## DISCUSSION

A child who has developed a generalised phobia due to terrible experiences in doctor's offices may become more anxious when they see a dentist who is dressed professionally. Using their favourite hues may promote cooperation since kids relate colours to emotions, such as blue for delight and green for surprise.<sup>5</sup> According to Taylor<sup>6</sup>,The way a patient

initially perceives a doctor can have a big impact on how they feel about the care they get and how competent they are. Most children preferred dentists who appeared competent and well-groomed. Physical characteristics have been shown to affect a person's decision to choose a family doctor and to be important for the development of the doctor-patient relationship.<sup>7</sup>

Children may find it unpleasant to sit in a dentist chair while bright lights are on and noises from the equipment are audible. Children should be able to wait for appointments in comfort, thus paediatric dental offices should be created with this in mind.<sup>8</sup>

The new coronavirus quickly spread throughout the entire world in the first semester of 2020. Severe Acute Respiratory Syndrome 2 (SARS-CoV-2) is brought on by this virus.<sup>9</sup> Healthcare practitioners were at a greater risk of getting infected and spreading the disease due to the new coronavirus's broad transmission.<sup>10</sup>

Children's dental phobia and anxiety are a serious issue in dental treatment, and as was hypothesised, concerns about the current epidemiological situation and any ensuing changes to the way the dental service is organised may make these concerns worse.<sup>11</sup> Given that children's emotional health is frequently influenced by that of their parents<sup>12,13</sup> and that during the pandemic-related lockdown, reports of fear of contracting SARS-CoV-2 while engaging in various activities, such as grocery shopping, were common<sup>14</sup>, this might be especially expected.

Calm children spread less aerosol compared to restless and crying children.<sup>15</sup> Consideration must be given to the potential increase in anxiety that the kid may experience as a result of the oral healthcare workers' requirement to wear improved PPE, such as face masks, face shields, gowns, and coveralls. Although in this study the majority of the kids were at ease with the dentist using PPE equipment irrespective of their age. Whenever feasible, it is beneficial to put on this protective gear in front of the child while

also explaining to them in clear terms why it is important and how to use it. One strategy is to let the kid imagine that the dentist is donning superpower outfits. Finally, dressing the child in the same way as the dental professionals may help to lessen their worry and anxiety when they observe everyone wearing coveralls, masks, and gowns.<sup>16</sup>

It is vital to note that social isolation and the disruption of children's schedules may have serious medical and psychological effects. Sprang & Silman (2013) found that paediatric patients who were quarantined during epidemic or pandemic events had post-traumatic distress levels that were four times higher than those who were not in social isolation.<sup>17</sup> Thus it is essential to make the appointment time as comfortable as possible for the children to have a pleasant experience.

#### CONCLUSION:

According to the study, which provides new insight into children's thinking, youngsters undoubtedly have strong opinions and preferences about their dentist's look, which affects the first impression and interpersonal relationship.

The kids of research participants did exhibit certain preferences about their dentist's appearance, but it is important to highlight that these preferences pale in comparison to the dentist's personality attributes including friendliness, patience, and professional competence.

Making a few minor changes to one's attire, however, can make the child feel more at ease and increase the possibility that the child will take the therapy with ease.

## References

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- 1Sanguida A, Suwetha R, Dharani MS, Ramya K, Ezhumalai G. Children's Choice of Dentist's Attire, Color, and Type of Mouth Mask: A Cross-sectional Study in Puducherry, India. *J Sci Den* 2019;9(2):36–40.
- 2AlSarheed M. Children's Perception of their dentists. *Eur J Dent* 2011; 5: 186–190.
- 3Panda A, Garg I, Bhohe AP. Children's perspective on the dentist's attire. *International journal of paediatric dentistry*. 2014 Mar;24(2):98-103.
- 4Jayaraman J, Dhar V, Moorani Z, Donly K, Tinanoff N, Mitchell S, et al. Impact of COVID-19 on pediatric dental practice in the United States. *Pediatr Dent* 2020; 42:180e3.
- 5Babaji P, Chauhan P, Churasia VR, Kaur T, Singh S, Augustine M. A cross-sectional evaluation of children preference for dentist attire and syringe type in reduction of dental anxiety. *Dent Res J (Isfahan)* 2018;15(6):391–396. DOI: 10.4103/1735-3327.245228.
- 6Taylor PG. Does the way housestaff physicians dress influence the way parents initially perceive their competence? *Pediatr Notes* 1985; 9: 1.
- 7Dunn JJ, Lee TH, Percelay JM, Fitz JG, Goldman L. Patient and house officer attitudes on physician attire and etiquette. *JAMA* 1987; 257: 65–68.
- 8M. AlSarheed, "Children's perception of their dentists," *European Journal of Dentistry*, vol. 5, no. 2, pp. 186–190, 2011.

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- 9Tu~nas ITC, Silva ET, Santiago SBS, Maia KD, Silva-Junior GO. Coronavirus disease 2019 (COVID-19): a preventive approach to dentistry. *Braz Dent J* 2020;77: e1766.
- 10Gomes RL, PedrosaMS, SilvaCHV. Restorative dental treatment in times of COVID-19. *Rev GauchaOdontol* 2020;68: e20200019.
- 11Olszewska A, Rzymiski P. Children's dental anxiety during the COVID-19 pandemic: Polish experience. *Journal of clinical medicine*. 2020 Aug 25;9(9):2751.
- 12Ryan, R.; O'Farrelly, C.; Ramchandani, P. Parenting and child mental health. *Lond. J. Prim. Care* 2017, 9, 86–94
- 13Power, T.G. Stress and Coping in Childhood: The Parents' Role. *Parenting* 2004, 4, 271–317.
- 14Sidor, A.; Rzymiski, P. Dietary Choices and Habits during COVID-19 Lockdown: Experience from Poland. *Nutrients* 2020, 12, 1657.
- 15Jurema ALB, Rocha RS, Mailart MC, Souza MY, Gonc,alves SEP, Caneppele TMF, et al. Protocols to control contamination and strategies to optimize the clinical practice in Restorative Dentistry during the COVID-19 pandemic. *Braz Dent Sci* 2020; 23:1e10.
- 16Bahramian H, Gharib B, Baghalian A. COVID-19 considerations in pediatric dentistry. *JDR Clin Trans Res* 2020; 5:307e11.
- 17Sprang G, Silman M. Posttraumatic stress disorder in parents and youth after health-related disasters. *Disaster Med Public Health Prep* 2013;7:105e10.