

To Evaluate The Self-Apprehension Of Dental Students About Their Own Smile Aesthetics

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ABSTRACT:

Objective: This cross-sectional observational study was accomplished at Isra University to evaluate the self-apprehension of dental students related to their own smile.

Material and Methods: This study was comprised of 166 dental students belonging to both genders. A structured self-administered questionnaire was used to conduct a survey among undergraduate dental students at all study levels in Isra University. Questionnaire was designed to observe the self-apprehension and satisfaction of students with reference to their dental appearance.

Data analysis was done using descriptive statistics via 21st version of SPSS. 0.05% was established as the level of significance.

Results: 166 students (32 males and 134 females) participated in this survey. 32.5% students were shy as against 91.6% students who were bold at smiling in public. 55.4% students preferred to be photographed from side pose while 69.9% were inspired by other's smile.

In terms of teeth dimensions, 60.2%, 54.8% and 46.4% students were gratified with the length, breadth and form of their teeth respectively.

Conclusion: This study concludes that greater number of dental student were self-assured regarding their apprehension on their own dental appearance. Majority of the females though contented with the dimensions and contour of their teeth, urged to have lighter teeth.

Key words: Self-apprehension, dental appearance, smile, dental students.

INTRODUCTION:

When we think of beauty, the immediate thought which strikes our mind is the face. The reason being for that is the face has a very important and attractive attribute called smile next to the eyes^{1,2}; their significance indicated through studies as 31% and 34% respectively³⁻⁶.

As for now, dental aesthetics have become a necessity as there are people who are lacking self-assurance and becoming reserved as a consequence of not having a pleasant appearance^{7,8}.

Smile as we know and as discussed earlier is very crucial

and thus many patients visit the dentists nowadays for orthodontic treatment and aesthetic restorations⁹⁻¹¹. In recent times, significant dental aesthetics is consequential in creating pleasant and decent appearance, which in turn helps the patient regain their lost confidence¹².

Media these days with advertisements and endorsements of beauty creams and tooth pastes manipulate the society and force them to become a physically well-being individual and so the fundamental objective of aesthetic dentistry is to make people look attractive by making their smile attractive. This explains why the demand of aesthetic dentistry has excelled in today's generation.

Aesthetic dentistry is recognized to create a satisfying smile in order to make people appear beautiful. In order to fulfil this task, the dentist must make a treatment plan based on the requirements of dental management and patient's aesthetic concerns.

Concept of smile aesthetics between a lay man and a dentist definitely differs. In a study¹³ conducted in the year 2016, Saffarpour A et al proved that difference in smile insight between these two is negligible and on the other hand, Tortopidis D¹⁴ remarked that the patient's expectations related to dental aesthetics are higher and un-realistic as compared to dentists. Few of the patients desire extensive aesthetic corrections regarding tooth form, colour and tooth position but dentists however, are more receptive to colour, contour and mastication of teeth¹⁵.

Dental Education imparts a great effect on the correct

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understanding and awareness of the basic concepts of dental aesthetics thus improving their own aesthetic apprehension. Though gaining much knowledge regarding aesthetics may cause the dental students discontented with their smile as they gain more and more awareness regarding smile aesthetic fundamentals which might go unnoticeable if looked otherwise, yet it might prevent the students from indulging into unrealistic desires leading to false look. Hence, the aim of this study is to appraise the self-concept of undergraduate dental students regarding their smile in terms of gratification.

MATERIAL AND METHODS:

This cross sectional observational study was executed on undergraduate dental students at Isra University to evaluate their self-apprehension regarding their own dental appearance. After getting consent from ethical committee and study participants a self-structured questionnaire was used to conduct a survey among undergraduate dental students. Of 210 total students, 166 (134 females and 32 males) agreed to participate in the study and filled the question form.

The survey form was divided into three set of questions, the first set of questions enclosed polar questions that interrogated about confidence at smiling in public places, contentment with the colour and contour of their teeth and gums and whether the participants esteemed someone’s smile in public or media.

The other set of questions enquired regarding gratification with the dimensions of teeth, proportion of teeth to gums and incisal display.

The third set of questions encompassed a visual analogue scale (0-10), where score 0 was measured as least satisfied while score 10 reflected as most satisfied. Students used this scale to rank their level of contentment with the colour of their teeth, smile in photographs and how much their occupation has motivated their oral health.

Data analysis was done using descriptive statistics such as percentage, cross tabulation etc. via 21st version of SPSS. 0.5% was established as the level of significance.

RESULTS:

79.05% (166/210) students responded to the study and completed the survey form. Figure 1 shows the male to female ratio in the participants and Table 1 illustrates the age range and mean age of the students participated in the study. Table 2 reveals that 91.6% respondents were assertive while smiling public. Conversely 32.5% were shy to show their teeth while smiling at public places. 55.4% students felt that their side pose looked better from front pose in photographs. 56.6% students preferred to have a celebrity like smile. 77.7%, 87.3% and 24.7% students were not satisfied with their tooth colour, contour and gums respectively.

Moreover, when they were inquired about gratification related to incisal display, proportion of gums visible and

dimensions of teeth, only 7.8% and 8.4% participants were appeased with the incisal display and gum show at smiling respectively (Table 3 and 4). 60.2% and 54.8% applicants were happy with the length and breadth of their teeth respectively. (Table 5 and 6)

Table 7 shows that only 46.4% candidates were pleased with the form of their teeth. Table 8 shows the mean and median of 4 questions that candidates were asked to record answers using a numeric scale from 0 to 10. Applicants contented with their teeth colour counted 16.9% only and 32.5% were completely satisfied with their smile in photographs (scored 10). The students responded unevenly on how much dental education motivated their oral health behaviour, 31.9% individuals observed that dental education has exerted 100% inspiration on their oral hygiene performance.

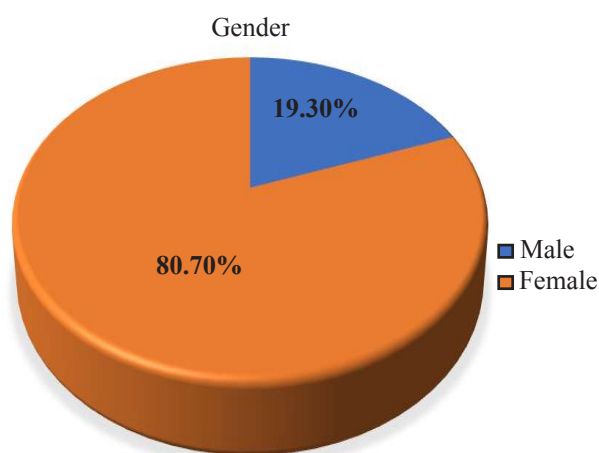


Fig 1: Gender distribution

Age	
Minimum	16
Maximum	26
Mean	20.44
Std. Deviation	1.523

Table 1: Age distribution

DISCUSSION:

This survey was conducted to validate the self-concept of undergraduate dental students at Isra University, related to their own smile and dental appearance.

Multiple factors including age, gender, social circle, socioeconomic factors and media influence the individual’s insights concerning their smile and dental appearance in a number of ways^{16,17}. Therefore, to monitor the selfapprehension of a community is a great challenge.

Our analysis presented that, 91.6% candidates were happy with their smile while smiling in open while 69.9% individuals preferred other’s smile at their owns. Similarly, in a survey carried out by Azodo CC et al¹⁸; more than three-

Questions	Yes		No		Total	
	Male	Female	Male	Female	Yes	No
Do you feel confident while smiling?	28 (18.4%)	124 (81.6%)	4 (28.6%)	10 (71.4%)	152 (91.6%)	14 (8.4%)
Do you cover your mouth with your hand while smiling?	2 (3.7%)	52 (96.3%)	30 (26.8%)	82 (73.2%)	54 (32.5%)	112 (67.5%)
Do you feel that your face's side pose looks better in photograph?	19 (20.7%)	73 (79.3%)	13 (17.6%)	61 (82.4%)	92 (55.4%)	74 (44.6%)
Do you think someone has a better smile than yours?	24 (20.7%)	92 (79.3%)	8 (16.0%)	42 (84.0%)	116 (69.9%)	50 (30.1%)
Are your eyes drawn to the model's smile, when you read a fashion magazine?	13 (13.8%)	81 (86.2%)	19 (26.4%)	53 (73.6%)	94 (56.6%)	72 (43.4%)
Do you feel any defects in your teeth or gums, when you look at your smile in the mirror?	17 (14.0%)	105 (86.0%)	15 (34.9%)	29 (65.1%)	122 (73.5%)	44 (26.5%)
Do you desire to have whiter teeth?	21 (19.8%)	85 (80.2%)	11 (18.3%)	49 (81.7%)	106 (63.9%)	60 (36.1%)
Are you satisfied with the way your gums look?	26 (20.2%)	103 (79.8%)	6 (16.2%)	31 (83.8%)	129 (77.7%)	37 (22.3%)
Do you like the shape of your teeth?	22 (17.6%)	103 (82.4%)	10 (24.4%)	31 (75.6%)	125 (75.3%)	41 (24.7%)
Do you idealize any model's smile in magazines and desire to have a smile as pretty as theirs?	30 (20.7%)	115 (79.3%)	2 (9.5%)	19 (90.5%)	145 (87.3%)	21 (12.7%)

Table 2: Results of the combined questions concerning the satisfaction with the own teeth and smile

Teeth visible at smiling?	Male	Female	Total
Too many	12	52	64 (38.6%)
Too few	18	71	89 (53.6%)
Normal	2	11	13 (7.8%)

Table 3: Self-perception of students regarding teeth visible during smiling

Gums visible at smiling?	Male	Female	Total
Too much	8	16	24 (14.5%)
Too little	23	105	128 (77.1%)
Normal	1	13	14 (8.4%)

Table 4: Self-perception of students regarding gums visible while smiling

Do you think teeth too long or too short?	Male	Female	Total
Too long	4	30	34 (20.5%)
Too short	6	26	32 (19.3%)
Normal	22	78	100 (60.2%)

Table 5: Self-perception of students concerning teeth length during smiling

Do you think teeth too wide or too narrow?	Male	Female	Total
Too long	8	39	47 (28.3%)
Too short	4	24	28 (16.9%)
Normal	20	71	91 (54.8%)

Table 6: Self-perception of students concerning teeth width during smiling

Do you think teeth too square or too round?	Male	Female	Total
Too long	11	61	72 (43.4%)
Too short	7	10	17 (10.2%)
Normal	14	63	77 (46.4%)

Table 7: Self-perception of students concerning teeth shape during smiling

Score (0-10)	Mean	Median
Gratification concerning your teeth colour?	7.52	8.00
Level of gratification related to your smile in photographs?	7.92	8.00
How much your occupation has motivated your oral hygiene?	8.40	9.00

Table 8: Mean and median of dental student's self-perception regarding scored questions

quarters (79.4%) were appeased with their dental look.

Whereas Silva GDCD et al⁷, revealed in his study done at Brazilian students that 92% of them were gratified with their smile while 90% admired other people's smile. The reason behind this is that nowadays mass media is playing a great role in bringing smile beauty standards forward, which is mostly effecting the females and teenagers. Majority of the people thus seeking orthodontic treatment for aesthetic reasons are usually females and teenagers or young adults.¹⁹

A study⁷ conducted in the year 2012 had similar findings as ours that showed though females were more pleased with their smile than males yet they admired to have a better and a superstar like smile. Conversely, few more studies^{17, 20, 21} showed that females tends to be more unhappy with their smiles as compared to males. In another study²² male and female participants had equal gratification level regarding tooth colour, whereas in terms of occlusion and teeth dimensions females were less contented as compared to males.

It's generally observed that females are more beauty conscious whether it is aesthetic implications of missing teeth²³ or any scar resulting from some physical injury²⁴.

The findings of our study showed that 77.7% individuals desired to have lighter teeth. The findings of Tortopidis D et al¹⁴ and Thiyagarajan A et al²⁵, were consistent with our study while the findings of Carlsson et al²⁶ contradicted our study and found that non dental students urged to have lighter teeth as compared to dentists.

The traditional sensation of tooth whitening has already flourished in many countries. In US, 34% of total population is unhappy with their tooth colour.²⁷ In fact, current tradition dictates not only the demand for a healthy mouth but a perfect smile as well²⁸.

Our study revealed that 87.3% respondents were gratified with their tooth form which was consistent with the study⁷ conducted in the year 2012. Additional studies must be conducted in this area keeping in mind the needs and difficulties, professionals face while planning an aesthetic treatment.

CONCLUSION:

Within the limitations of this study, it is concluded that majority of the dental students were gratified with their self-apprehension related to their own smile and dental look. Females though more satisfied with the form and dimensions of the teeth, desired to have even better smile in terms of tooth colour because they are more beauty conscious and they easily and readily get touched and inspired by other's smile.

Dental Students have more knowledge of dental aesthetics as compared to a lay man and as the year of study progresses, their knowledge related to smile aesthetic increases. Hence, dental education and awareness has positive attitude on or

oral hygiene behaviour. It is also very important for the practitioners to understand the patient's self-concept of their own smile and dental appearance because lack of communication between them can lead to patient discontentment even if the treatment planned and executed according to ideal smile aesthetic standards.

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