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Assessment of awareness, knowledge and practice of veneers by the dentists in Nagpur city - A cross-sectional study

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# Abstract

Smiling is one of the most effective ways of non-verbal communications we have. Everyone should be able to smile and laugh freely whenever they want to. But sometimes, it may not be the case if they are conscious about the appearance of their teeth. Their teeth could be misaligned, forwardly placed, discolored, decayed, or broken due to various reasons. This could make people feel self-conscious and effect the way they interact with others. Their confidence could take a major hit. To prevent this, dentistry has a solution that can give their smile a makeover- Dental Veneers. Veneers can fix a variety of imperfections at once. In fact, if you want to dramatically transform your smile in a short amount of time, veneers is your answer.

**Keywords**: Awareness, knowledge, practice, veneers, Nagpur.

### Introduction

Veneer is one of the most revolutionary techniques developed over the past 25 years. Due to their high aesthetic outcome and long-term predictability, laminate veneers have become a common restorative procedure for anterior teeth. However, because of the different types of preparation designs and the material types, the clinician faces a dilemma of which approach to use.

Veneers are indicated in multiple situations such as, discoloured teeth, diastema closure, chipped or cracked teeth, minor misalignments and rotations of the anterior teeth, teeth reshaping, teeth with large cervical lesions or caries in the labial surface, and amelogenesis imperfect disorder. An attractive appearance with veneer has shown to increase people's self-confidence, personal relationship, and even the success in his or her career. Hence with veneer, it is possible to create amazing aesthetic results with minimal tooth reduction.

The long-term success of veneers is due to essential parameters, such as shade selection, tooth preparation, cementation, technique, and patient maintenance. The advantages of dental veneers involved aesthetic quality, fracture resistance, conservative preparation, low

debonding rate, tissue acceptance, patient satisfaction, and negligible incidence of caries. The continued development of dental ceramics offered clinicians many options for creating highly aesthetic and functional veneers. The purpose of this article is to evaluate the awareness, knowledge and practice of veneers by dentist of Nagpur and to identify to what extent the veneers are being used. Methodology

A questionnaire was sent to 70 practicing dentists of Nagpur city online as google form. The questionnaire consisted of three domains of awareness, knowledge, & practice of veneers with total 23 questions. Data was retrieved and analysed with the help of percentage analysis

#### Result

Table 1: Baseline characteristics of participants - 70

Characteristics	Number	Percentage
Informed consent: Do you wish to participate in this study?		
Yes	70	100%
No	0	0%
Gender:		
Male	43	61.4%
Female	27	38.6%
Age groups:		
Below 30 yrs	9	12.9%
Between 30-40 yrs	39	55.7%
Above 40 yrs	22	31.4%
Qualification:		
BDS	39	55.7%
MDS	31	44.3%
Designation:		
General dentist	44	62.9%
Prosthodontist	7	10%
Endodontist	11	15.7
Other	8	11.4%
Health sector where you are working presently:		
Government sector	4	5.7%
University clinic	0	0%
Private sector	62	88.6%
University clinic & private sector	4	5.7%
Years of practice:		

5 year's or less	15	21.4%
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5-15 year's	32	45.7%
15-20 year's	14	20%
20 year's or above	9	12.9%

Table 2: Dentists awareness regarding dental Veneers.

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Questions	Strongly	Disagree	Neutral	Agree	Strongly
	Disagree				Agree
1. Veneers have changed how we practice	0	0	7 (10%)	36 (51.4%)	27 (38.6%)
dentistry, do you agree?					
2. Do you prefer to recommend Veneer as a	0	0	15 (21.4%)	35 (50%)	20 (28.6%)
Treatment Option to your patients?					
3. Do you get many patients who require	1 (1.4%)	20 (28.6%)	26 (37.1%)	18 (25.7%)	5 (7.1%)
Veneers as treatment every month?					
4. It is necessary to undergo MDS to treat	7 (10%)	32 (45.7%)	14 (20%)	12 (17.1%)	5 (7.1%)
patients with Veneers?					
5. Do the patients carry the fear of tooth	1 (1.4%)	13 (18.6%)	15 (21.4%)	31 (44.3%)	10 (14.3%)
preparation?					

Table 3: Dentists knowledge regarding dental veneers

Questions	Results				
1. What material is used by	Polyether	Addition silicone	Condensation	Alginate	
you for taking impressions?			silicone		
	7 (10%)	45 (64.3%)	14 (20%)	15 (21.4%)	
2. What type of preparation	Window	Feather	Never preparation	Incisal	Depends on
you prefer?	preparation	preparation		overlap	requirements
				preparation	of
	6 (8.6%)	19 (27.1%)	25 (35.7%)	30 (42.9%)	1 (1.4%)
3. What type of gingival	Single cord	Double cord	Other's		
retraction technique is	technique	technique			
used?	50 (71.4%)	23 (32.9%)	1 (1.4%)		
4.Do you temporise or not?	Always	Mostly	Never		
	27 (38.6%)	33 (47.1%)	10 (14.3%)		
5.Your observation as to	5 years'	5-10 year's	More than 10		
how long the Veneers are			years'		
retained by the Patients?	22 (31.4%)	32 (45.7%)	16 (22.9%)		

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Table 4: Assessment of practice of veneers by the dentists

Questions	Frequency	Percentage
1.Which type of Veneer is most commonly preferred by you?		
Porcelain	59	84.3%
Composite	15	21.4%
Other's	3	4.2%
2. Frequency of patients visiting your clinic for treatment of Vene	eers?	
1-2 patients/month	52	74.3%
3-5 patients/month	10	14.3%
6-10 patients/month	8	11.4%
11-15 patients/month	0	0%
More than expected	0	0%
3. Age Group of patients who readily accept to undergo treatmen	t by Veneers.	
18-25	27	38.6%
26-35	38	54.3%
36-45	5	7.1%
46 & above	0	0%
4. In case you restrain the use of Veneers, the reasons for it.		
Non cooperation from patients	7	10%
Low awareness amongst the patients	18	25.7%
Other treatment options are available	25	35.7%
Budget of patient	42	60%
Other	0	0%
5.It is convenient to communicate the steps involved in the use of	f Veneers with the patients?	
Always	47	67.1%
Sometimes	23	32.9%
Never	0	0%
6.What media is used by you to explain the procedure involved in	n treatment with Veneers?	
Videos	40	57.1%
Pictures	57	81.4%
Other's	1	1.4%
7. How many appointments you take to complete the procedure?		
2 appointments	21	30%
3 appointments	40	57.1%
More than 3 appointments	9	12.9%

8.As a general Practitioner, do you find it easy to work with Veneers or yo	ou refer your patients to a sp	pecialist?
I do it myself	42	60%
Refer to a specialist	14	20%
Partly executed by me and partly executed by a specialist	14	20%
9. Have you undergone any special course before practicing application of	veneers in your clinic?	
No	47	67.14%
Yes	18	25.71%
MDS prosthodontist	2	2.85%
Workshop	1	1.4%
Book reading	1	1.4%
Prosthodontics course hands on	1	1.4%
10. Is the setup cost effective?		
Yes	49	70%
No	15	21.4%
Don't know	6	8.6%
11. Is the lab work undertaken in your own clinic or it is assigned to an ou	itside agency?	
In my own clinic	4	5.7%
Outside agency	66	94.3%
Other	0	0%
12. Is proper Hygiene maintained by the Patients?		
Mostly	46	65.7%
Sometimes	24	34.3%
Not at all	0	0%
13. Do the patients follow the Post OP instructions?		
Mostly	45	64.3%
Sometimes	25	35.7%
Not at all	0	0%
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## Discussion

This study was primarily aimed at assessing the awareness, knowledge, and practice of use of Veneers by the practicing dentists in Nagpur City and found that, the dental practitioners were definitely aware about the use of Veneers but were very apprehensive about recommending use of Veneers as treatment option to the visiting patients. They attributed the reason for low awareness amongst the patients regarding use of Veneers as a treatment method to enhance their looks.

A total of 70 practicing dentists of Nagpur City participated in the study which showed the response rate of study to be 100% with majority of all the responses from private practitioners of Nagpur City. Data relating to their gender, age group designation and years of practice was assimilated through the survey conducted

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as a part of this research paper and also survey was done to assess the field of their working i.e., health sector in which they were working at the time of study.

The study revealed few very interesting facts as delineated below:

That, during the study, mostly 61.4% of male participated in the study and only 38.6% of females participated in the study. The study also showed that, 55.7% of the practicing dentists were among the age group of 30 - 40 Yrs. and that only 9% of the practicing dentists were below the age group of 30 Yrs. Mostly the practicing dentists were just simple BDS and around 44.3% had done PG i.e. MDS. Majority i.e. 62.9% of the surveyed practicing dentists were general practitioners and around 15.7% were endodontist and around 10% were prosthodontist. That amongst the surveyed practicing dentists around 45.7% had rendered about 5 - 15 Yrs. of practice in the field of Dentistry.

Dentists from Specialized field were approached to participate in this study. However, only 25.7% could be contacted or had consented to be a part of this survey study.

The study being aimed at assessing the awareness, knowledge, and practice of use of Veneers was divided into three segments i.e., Awareness, Knowledge, and Practice and the questionnaire was accordingly drafted, and the data was assimilated during the personal interaction with the practicing dentists who consented to be a part of this study.

### Awareness

51.4% of the surveyed dentists agreed that veneers have changed the way of practicing dentistry and none disagreed with this point of view. However, around 10% of the dentists remained neutral. As far as the question of recommending the use of veneers as a treatment option to the visiting patients was concerned, 50% of the dentists agreed and said that they recommend their patients regarding use of Veneers. This shows that there is definitely a good amount of awareness amongst the dentists regarding of Veneers. practicing use Nevertheless, when the dentists were questioned regarding the number of patients who require Veneers as treatment every month, around 37.1% of the dentists remained neutral and 25.7% agreed to this question. Around 28.6% disagreed to this question, which clearly indicates that, awareness regarding the use of Veneers was to a low extent and not many patients require use of Veneers as a treatment option.

45.7% of the dentists disagreed to the point that any specialized study or PG is required to treat the visiting patients with Veneers. 20% remained neutral at this point and 17.1% agreed to the point. This indicates that, the practicing dentists are of the view that no specialized study/ degree is required for use of veneers. Also, that, 44.3% of the dentists believed that the patients carry the fear of tooth preparation. These findings are clearly indicative of the fact that, the practicing dentists were aware of the use of Veneers.

#### Knowledge

Few questions were designed at clearly focusing the study at a point to test the knowledge state of the practicing dentists. The study revealed that, 64.3% of the dentists prefer to use additional silicone as a material for taking impressions. 21.4% agreed to have preferred to use Alginate as a source to take impressions.

Under the limitations of the available literature, the clinician preference is the decisive factor for choosing the preparation design. Nonetheless, incisal overlap preparation seems to have the most predictable outcome from all the preparation designs. The study indicated that, 42.9% of the surveyed dentists preferred Incisal Overlap Preparation technique for Veneers preparation.

71.4% of the surveyed dentists also strongly agreed to have used Single Cord technique to gingival retraction technique as compared to only 32.9% agreeing to have used Double Cord technique.

Mostly 47.1% of the dentists agreed to have temporised and about 38.6% agreed to always temporising.

As far as study regarding retention of Veneers by the patients who have undergone treatment with Veneers is concerned, around 45.7% of the dentists were of the opinion (based upon the number of years of service in this field) that, veneers are retained by the patients for around 5 - 10 Yrs. And 31.4% believed that the patients retained veneers only for 5 Yrs.

The above inferences are a clear indicative of the fact that, the practicing dentists were quite aware of the use of Veneers, thus substantiated the study.

### Practice

According to the recent studies by few of the researchers, it has been revealed that Porcelain veneers show excellent aesthetic results and predictable longevity of the treatment, while composite veneers can be considered as a good conservative option, but with less durability. Here, in our case, the result is well substantiated with the fact that, 84.3% of dentists agreed to use Porcelain veneers compared to Composite veneers.

During the study it has been revealed that, 60% of the patients do not opt for use of either of the veneers due to the budget constraint and about 35.7% believed that there are other treatment options available with the visiting patients. About, 81.4% of the practitioners believed that use of picture media is enough to explain the procedure involved in treatment with Veneers.

Also, 60% of the dentists agreed that, instead of referring the patients to a specialist, they prefer to do it

themselves and 20% agreed to have preference to refer the patients to some specialists.

The study revealed that, 60% of the practicing dentists haven't undergone any specialized course before practising application of Veneers in their respective clinic. 94.3% also agreed to outsource the lab work and only 5.7% agreed to undertake the lab work in their own clinic itself.

The study also revealed that most of the patients i.e. 65.7% of them maintain proper hygiene and that around 64.3% of the patients follow post OP instructions too. 70% of the practicing dentists agreed that the setup was cost effective and around 21.4% expressed the opinion that the setup wasn't cost effective.

In the end it can be inferred that, the dentists who were surveyed recommend veneers and use it for the benefit of the patients.

### Conclusion

It is concluded that the awareness, knowledge, practice of the dentists of Nagpur City regarding use of Veneers is to some extent limited.

Even, there is no significant difference in knowledge score between graduate and post graduate dentists as far as the use of veneers is concerned. This ultimately directs the light to the importance of raising awareness of the practicing dentists of Nagpur City about use of dental veneers.

The research in this field has been based on personal preference and anecdotal information. More objective and elaborative research is required to conclude the study.

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