



MAHATMA GANDHI MISSION'S DENTAL COLLEGE & HOSPITAL

Accredited by NAAC with "A++" Grade
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THE ROLE OF SEALANTS IN PREVENTING TOOTH DECAY IN KIDS AT GHOT, DHANSAR, ADIWALI AND DHARANGAON

Date: 10th July 2025

Venue: TBR Camp at Ghot, Dhansar, Adiwali and Dharangaon

Faculty: Dr. Vaibhav Thakkar

MGMDCH, NSS unit of MGMDCH; The Breakfast Revolution

Number of Students attended: 7

Tooth decay is one of the most common diseases of childhood that can affect the overall well-being of the child. The most commonly affected teeth are the back teeth whose biting surfaces are not flat and have grooves (pits and fissures) that can retain food debris and bacteria, leading to formation of cavities (decay). In addition, the opening of these grooves is so small that a toothbrush bristle cannot enter them completely, making them difficult to clean. Sealing the grooves is one of the ways to prevent decay in back teeth. Sealant acts as a protective barrier to food and bacteria, thus preventing their harmful action on tooth surfaces. MGM Dental College constantly takes efforts of extending the oral health care to the community. The oral care initiative was also extended to the children at SIES with the intention of providing proper oral health care to the patients.

Aim and Objective:

1. To create awareness about the significance of maintaining good oral health.
2. To educate children on the sealant application and its benefits.

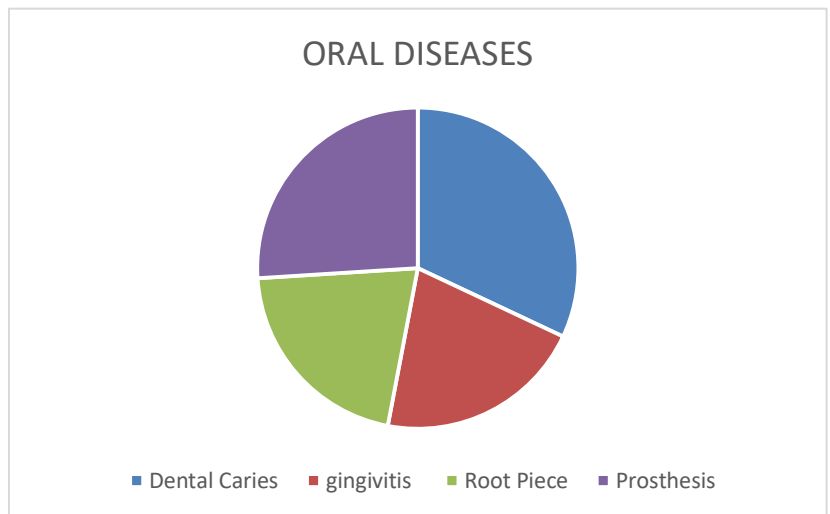
Method:

Sealants applied to sound occlusal teeth surfaces occlude these pits and fissures forming a physical barrier that helps to prevent caries development. The physical barrier may block the carbohydrates from reaching the bacteria at the base of these structures, as well as making the surfaces easier to clean. While resin-based sealants prevent caries by forming a physical barrier, GIC sealants bond chemically to dental tissues and have anticariogenic effect

by releasing fluoride. Type III examination was conducted using mouth mirror and probe to assess their oral health status. Following the evaluation, the patients were provided with information on how to address any identified dental issues. The patients were explained various common oral lesion caused due to use of tobacco with the help of banners and charts. To enhance their understanding about regular visit to a dentist for check-up, engaging videos were shown that illustrated the progression of oral lesions and highlighted preventive measures. Additionally, a demonstration of proper brushing techniques was conducted using a model, The initiative also included discussions about the importance of regular dental check-ups, further reinforcing the message of comprehensive oral health care.

ORAL HEALTH STATUS:

Sr. no.	Oral diseases	No. Of patients	Percentage %
1.	Dental Caries	24	32
2.	Gingivitis	16	21
3	Root piece	16	21
4.	Prosthesis	20	26



Observations: A total of 76 patients were examined for various dental problems. Those requiring extensive treatment were referred to MGM Dental College and Hospital, Kamothe

Interpretation and Conclusion:

Dental Caries is the most common problem among the people followed by gingivitis

Oral health education and prevention strategies should be implemented in order to reduce the disease burden among these populations. Dental sealants are a proven preventive measure against dental caries, particularly on occlusal surfaces of molars and premolars, which are prone to decay. By forming a protective barrier over pits

and fissures, sealants inhibit the accumulation of food particles and colonization by cariogenic bacteria. Resin-based sealants, known for their high retention and mechanical durability, are widely used, while glass ionomer sealants provide additional benefits through fluoride release, promoting remineralization and caries prevention even in areas not directly covered by the material.



Oral screening done at the camp site

LIST OF ATTENDEES

Sr.no.	Attendees
Name of staff	
1.	Dr. Vaibhav Thakkar
Name of Interns & Students	
2.	Khadija Javed
3.	Ishika Shetty
4.	Karishma Bhanushali
5.	Jupneet Kaur