



MAHATMA GANDHI MISSION'S DENTAL COLLEGE & HOSPITAL

Accredited by NAAC with "A++" Grade
Plot No. 1 & 2 Sector-01 (Old 18 & 19),
Kamothe, Navi Mumbai- 410209
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IMPORTANCE OF PIT AND FISSURE SEALANT APPLICATION IN CHILDREN **LOKNETERAMSHET THAKUR SCHOOL, KAMOTHE**

Date: 12th JUNE 2024

Venue: Loknete Ramshet Thakur School, Kamothe

Faculty: Dr. Kashmira Kadam, Dr. Prachiti Terni

Organizing Agency: Department of Public Health Dentistry, MGMDCH, NSS unit of MGMDCH & Lions club of Kamothe

Number of Students attended: 09

Pits and fissures of the occlusal surfaces of the posterior teeth are more prone to caries development than the smooth surfaces due to their morphological complexity, making dental hygiene more challenging and leading to increased plaque accumulation. The enamel in pits and fissures cannot receive the same protection from fluorides compared to the enamel on smooth surfaces. The use of pit and fissure sealants provides a physical barrier that inhibits microorganisms and food particle accumulation, preventing caries initiation and arresting caries progression. Permanent first molars, followed by second molars, show the highest prevalence of caries.

MGM Dental College constantly takes efforts of extending the oral health care to the community. The oral care initiative was also extended to the population visiting Loknete Ramshet Thakur School, Kamothe with the intention of creating awareness about importance of pit and fissure sealant as a preventive treatment.

Aim and objective:

1. To educate students about importance of Dental Caries and its prevention
2. To assess the oral health status of patients.
3. To educate and create awareness about oral health.

Method:

It is estimated that about one-fourth of children and more than one-half of adolescents present dental carious lesions in their permanent teeth. The occlusal surfaces of the posterior teeth are the most susceptible to caries development due to pits and fissures with complex morphologies that make them the perfect habitat for

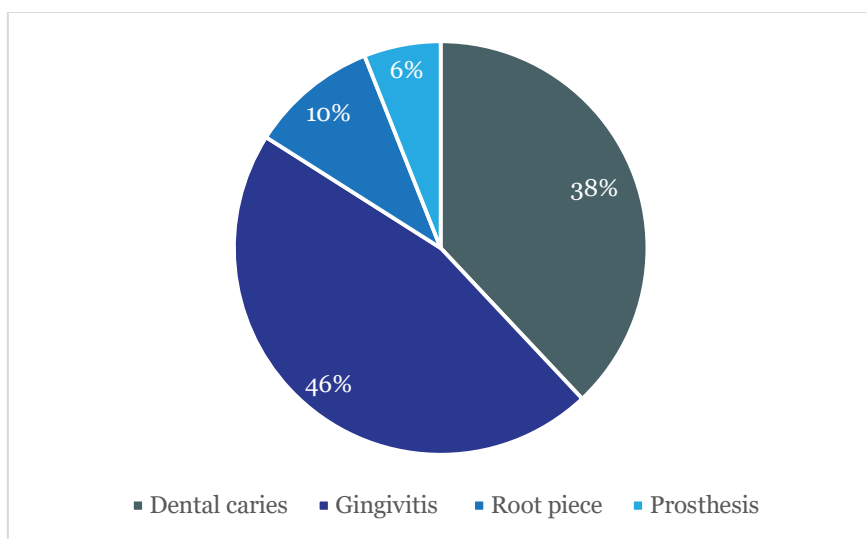
caries development. There is sufficient evidence to believe that sealants are an effective method to prevent this undesired disease. Pit and fissure sealants can be used as primary prevention, anteceding the development of dental caries, or as a secondary prevention measure to stop the disease progress. It is a tool for caries prevention individually or as part of a public health measure for at-risk populations. All this was explained using pictorial banner during the program.

After the awareness program, oral examination was conducted using tongue depressor. All the patients were assessed for oral health status and were explained the need to get the problems corrected. The patients were made aware of the existing dental problems and preventive measures were explained.

Observations:

1. It was observed that patients had history of consuming high sugar diet due to which percentage of dental caries increased.
2. A total of 600 patients were examined for various dental problems. Those requiring extensive treatment were referred to MGM Dental College and Hospital, Kamothe.

Condition	No. of individuals	Percentage %
Dental caries	226	38
Gingivitis	278	46
Root piece	63	10
Prosthesis	33	6



Interpretation and conclusion:

1. Seeing a high percentage of population affected by dental caries indicated they were not aware of preventive treatment. They were advised to visit dentist once a year and asked for dental checkup. Brush twice daily in modified bass technique and use of floss were encouraged.
2. Dental caries is the most common problem among the patients followed by gingivitis.
3. Oral health education and prevention strategies should be implemented in order to reduce the disease burden among these patients.



INVESTIGATION BEING DONE BY
THE TEAM MEMBER



TEAM MEMBERS WHO ATTENDED
THE CAMP

List of Attendees

Sr. No	List of Participants
Name of faculty	
1.	Dr. Kashmira Kadam
2.	Dr. Prachiti Terni
Name of Interns& Students	
3.	Vishal Obhan
4.	Savi Patil
5.	Sneha Chouhan
6.	Pooja Reddy
7.	Tejal Rane
8.	Alfiya Shaikh
9.	Kaustubh Sathe
10.	Chhatrya Kunal Rajesh
11.	Chitalia Bansi Amit