Dental Sealant Fact Sheet

Oral health is integral to general health.\(^1\) Although preventable, tooth decay is a chronic disease affecting all age groups. In fact, it is the most common chronic disease of childhood.\(^2\) The burden of disease is far worse for those who have restricted access to prevention and treatment services. Tooth decay, left untreated, can cause pain and tooth loss which in turn can lead to lost days at school and work. Untreated tooth decay is associated with difficulty in eating and with being underweight.\(^3\) Untreated decay and tooth loss can have negative effects on an individual’s self-esteem and employability.

What Is The Impact Of Dental Sealants?
Dental sealants are a plastic material placed on the pits and fissures of the chewing surfaces of teeth where up to 90 percent of decay occurs in school children.\(^4\) Sealants prevent tooth decay by creating a barrier between the teeth and decay-causing bacteria. Sealants also stop cavities from growing and can prevent the need for expensive fillings. Sealants are 100 percent effective if they are fully retained on the tooth.\(^5\) According to the Surgeon General’s 2000 report on oral health, sealants have been shown to reduce decay by more than 70 percent.\(^1\) The combination of sealants and fluoride has the potential to nearly eliminate tooth decay in school-aged children.\(^5\) Sealants are most cost-effective when provided to children who are at highest risk for tooth decay.\(^6\)

Healthy People 2020 Objectives\(^8\)
- Increase the percent of 8-year-old and 14-year-old children with dental sealants on their molar teeth to 28.1 percent.
- Reduce decay experience in children aged 6-9 years of age to 49 percent.
- Reduce the proportion of children aged 6-9 with untreated dental decay to 25.9 percent.

Sealants in Michigan\(^9\)
- Only 26.6 percent of Michigan third grade children had at least one sealant present upon examination – second lowest among all states.
- Just 17 percent of Hispanic third grade children in Michigan had at least one sealant present upon examination.
- Also, just 22.6 percent of uninsured third grade children had at least one sealant present upon examination.

Why Are School-Based Dental Sealant Programs Recommended?
In 2002, the Task Force on Community Preventive Services, a national independent, nonfederal, multidisciplinary task force appointed by the director of the Centers for Disease Control and Prevention (CDC), strongly recommended school sealant programs as an effective strategy to prevent tooth decay.\(^3\) CDC further estimates that if 50 percent of children at high risk participated in school sealant programs, over half of their tooth decay would be prevented and money would be saved on treatment costs.\(^4\) School-based sealant programs reduce disparities for children.\(^7\)
How is Michigan doing?

The 2010 Count Your Smiles survey revealed that:

✓ 26.4 percent of Michigan third-grade children had at least one dental sealant.
✓ 55.9 percent of Michigan third graders had experienced tooth decay.
✓ 27.1 percent of Michigan third graders had untreated tooth decay.
✓ Michigan currently ranks 37th out of 42 reporting states in the percentage of 3rd grade children with dental sealants present on first molars. In other words, Michigan remains well behind the national average.
✓ In Michigan, almost 90 percent of those on community water systems have access to fluoridated water.
✓ In Michigan, 30 percent of low-income/Medicaid children received at least one preventive oral health service in 2003.
✓ Michigan’s SEAL! Michigan school-based dental sealant program is recognized as a best practice by the Association of State and Territorial Dental Directors (ASTDD).

Strategies for Michigan’s Future

✓ Develop, promote, and fund school-based dental sealants and other population-based programs such as water fluoridation.
✓ Increase public awareness of effectiveness of dental sealants to increase demand for sealants.

References


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