



## **Michigan Dental Sealant Program**

### **All Grantees Data Report**

2016-2017 School Year

Fiscal Year 2017

#### **Report Purpose**

This report is intended to provide a descriptive summary of the patient population serviced by grantees participating in the SEAL! Michigan Dental Sealant Program within the Michigan Department of Health and Human Services during the grant period October 1, 2016 – September 30, 2017. Data was obtained from child-level forms submitted by grantees to the Michigan Department of Health and Human Services.

Program-level data are provided in each table and include the total number of patient records with missing data for each reported element. Program Managers should examine areas to improve data quality and collection.

## Demographics Results

Table 1. Gender of Students Screened		
	All Grantees	
	Number of Students	Percent (%)
Male	3,143	47.1%
Female	3,494	52.3%
<b>Total</b>	<b>6,637</b>	<b>99.4%</b>
Missing	40	0.6%

- A total of 6,677 students were screened between October 1, 2016 and September 30, 2017 with 47.1% being male and 52.3% being female.

Table 2. Current Grade of Students Screened		
	All Grantees	
	Number of Students	Percent (%)
Kindergarten	717	10.7%
1st	1,241	18.6%
2nd	1,537	23.0%
3rd	714	10.7%
4th	674	10.1%
5th	524	7.8%
6th	572	8.6%
7th	281	4.2%
8th	134	2.0%
9th	59	0.9%
10th	48	0.7%
11th	32	0.5%
12th	36	0.5%
<b>Total</b>	<b>6,569</b>	<b>98.4%</b>
Missing	108	1.6%

- Students from kindergarten through 12th grades were screened, the majority coming from 1st and 2nd grade.
- The average age of the students was 8.5 years and the range was between 4 and 21 years.

<b>Table 3. Race of Students Screened</b>		
	<b>All Grantees</b>	
	<b>Number of Students</b>	<b>Percent (%)</b>
<b>Black</b>	1,257	18.8%
<b>White</b>	3,609	54.1%
<b>Asian</b>	152	2.3%
<b>Hispanic</b>	571	8.6%
<b>Arab American</b>	56	0.8%
<b>American Indian/Alaskan Native</b>	96	1.4%
<b>Native Hawaiian/Pacific Islander</b>	8	0.1%
<b>Other</b>	83	1.2%
<b>More than One Race</b>	748	11.2%
<b>Total</b>	6,580	98.5%
<b>Missing</b>	97	1.5%

- The students were of various racial and ethnic backgrounds including Arab American, Hispanic and Black.
- Half of the students were White, 18.8% were Black and 11.2% were Multiracial.

<b>Table 4. Special Health Care Need Status of Students Screened</b>		
	<b>All Grantees</b>	
	<b>Number of Students</b>	<b>Percent (%)</b>
<b>Has Special Health Care Needs</b>	1,450	21.7%
<b>No Special Health Care Needs</b>	5,104	76.4%
<b>Total</b>	6,554	98.2%
<b>Missing</b>	123	1.8%

- One in five students had special health care needs which included those needing more medical care and those receiving special therapy, counseling or treatment.

<b>Table 5. Insurance Status of Students Screened</b>		
	<b>All Grantees</b>	
	<b>Number of Students</b>	<b>Percent (%)</b>
<b>Medicaid</b>	749	11.2%
<b>MI Child</b>	95	1.4%
<b>Healthy Kids Dental</b>	2,777	41.6%
<b>Other</b>	1,019	15.3%
<b>None</b>	1,155	17.3%
<b>Unknown</b>	810	12.1%
<b>Total</b>	6,605	98.9%
<b>Missing</b>	72	1.1%

- 11.2% of the students had Medicaid insurance and 41.6% were on Healthy Kids Dental.
- 17.3% had no dental insurance.

## Screening Results

**Table 6. Untreated Cavity Status of Students Screened**

	All Grantees	
	Number of Students	Percent (%)
Untreated Cavities Present	2,420	36.2%
No Untreated Cavities	4,243	63.5%
<b>Total</b>	<b>6,663</b>	<b>99.8%</b>
Missing	14	0.2%

- 36.2% of the students had untreated cavities at the time of screening.

**Table 7. Caries Experience of Students Screened**

	All Grantees	
	Number of Students	Percent (%)
Caries Experience	3,261	48.8%
No Caries Experience	3,387	50.7%
<b>Total</b>	<b>6,648</b>	<b>99.6%</b>
Missing	29	0.4%

- Almost half, 48.8%, of the students screened had evidence of past caries experience (i.e. fillings, crowns, or missing teeth due to extractions).

**Table 8. Presence of Sealants among Students Screened**

	All Grantees	
	Number of Students	Percent (%)
Sealants Present	2,544	38.1%
No Sealants Present	4,102	61.4%
<b>Total</b>	<b>6,646</b>	<b>99.5%</b>
Missing	31	0.5%

- 38.1% of the students had at least one sealant present at the time of screening.

**Table 9. Urgency of Needed Treatment among Students Screened**

	All Grantees	
	Number of Students	Percent (%)
No Obvious Problem	4,245	63.6%
Early Dental Care	1,913	28.7%
Urgent Care Needed	498	7.5%
<b>Total</b>	<b>6,656</b>	<b>99.7%</b>
Missing	21	0.3%

- 28.7% of students were in need of early dental care due to a small cavity that was not causing pain.
- 7.5% of the students were in need of urgent dental care. This could have been due to severe decay or abscessed, painful or bleeding areas.

<b>Table 10. Referral for Treatment Recommended for Students Screened</b>		
	<b>All Grantees</b>	
	<b>Number of Students</b>	<b>Percent (%)</b>
<b>Referred for Treatment</b>	4,875	73.0%
<b>Not Referred for Treatment</b>	1,750	26.2%
<b>Total</b>	6,625	99.2%
<b>Missing</b>	52	0.8%

- 73.0% of students were referred for treatment, which could include paperwork with a list of dental referrals. It is recommended that all students be referred to a dental home after being screened.

<b>Table 11. Referral Status by Urgency of Needed Treatment among Students Screened</b>		
	<b>All Grantees</b>	
	<b>Referred for Treatment</b>	
<b>Treatment Urgency</b>	<b>Yes</b>	<b>No</b>
<b>No Obvious Problem</b>	2,491	1,728
<b>Early Dental Care</b>	1,882	17
<b>Urgent Care Needed</b>	493	3

- Of those students referred for dental treatment, 38.6% were in need of early dental care and 10.1% needed urgent care.

<b>Table 12. Number of Decayed or Filled First Molars per Student Screened</b>		
<b>Number of First Molars</b>	<b>All Grantees</b>	
	<b>Number of Students</b>	<b>Percent (%)</b>
<b>0</b>	4,908	73.5%
<b>1</b>	528	7.9%
<b>2</b>	453	6.8%
<b>3</b>	234	3.5%
<b>4</b>	531	8.0%
<b>Total</b>	6,654	99.7%
<b>Missing</b>	23	0.3%

- Over 70% of the students screened had no decayed or filled first molars.
- 8.0% of the students had evidence of decay or fillings on all four first molars.

**Table 13. Number of Decayed or Filled Second Molars per Student Screened**

Number of Second Molars	All Grantees	
	Number of Students	Percent (%)
0	6,370	95.4%
1	103	1.5%
2	81	1.2%
3	34	0.5%
4	56	0.8%
<b>Total</b>	<b>6,644</b>	<b>99.5%</b>
<b>Missing</b>	<b>33</b>	<b>0.5%</b>

- 95.4% of the screened students had no decay or fillings on their second molars.
- 0.8% had decay or fillings on all four of their second molars.

## Preventive Services Results

**Table 14. Number of First Molars Sealed per Student Screened**

Number of First Molars	All Grantees	
	Number of Students	Percent (%)
0	3,458	51.8%
1	459	6.9%
2	650	9.7%
3	381	5.7%
4	1,678	25.1%
<b>Total*</b>	<b>6,626</b>	<b>99.2%</b>
<b>Missing</b>	<b>51</b>	<b>0.8%</b>

\*Total number of first molars sealed by all grantees = 9,614

- 47.4% of screened students received at least one sealant on a first molar; 6.9% received one sealant, 9.7% received two sealants, 5.7% received three sealants and 25.1% received sealants on all four first molars.
- In total 9,614 sealants were placed on first molars.

**Table 15. Number of Second Molars Sealed per Student Screened**

Number of Second Molars	All Grantees	
	Number of Students	Percent (%)
0	5,907	88.5%
1	151	2.3%
2	174	2.6%
3	131	2.0%
4	237	3.5%
<b>Total*</b>	<b>6,600</b>	<b>98.8%</b>
<b>Missing</b>	<b>77</b>	<b>1.2%</b>

\*Total number of second molars sealed by all grantees = 1,840

- 10.4% of students received at least one sealant placed on a second molar; 2.3% received one sealant, 2.6% received two sealants, 2.0% received three sealants and 3.5% received sealants on all four second molars.
- In total, 1,840 sealants were placed on second molars.

<b>Table 16. Number of Other Teeth Sealed per Student Screened</b>		
<b>Number of Other Teeth</b>	<b>All Grantees</b>	
	<b>Number of Students</b>	<b>Percent (%)</b>
<b>0</b>	5,951	89.1%
<b>1</b>	87	1.3%
<b>2</b>	87	1.3%
<b>3</b>	61	0.9%
<b>4</b>	81	1.2%
<b>5</b>	45	0.7%
<b>6</b>	64	1.0%
<b>7</b>	59	0.9%
<b>8</b>	209	3.1%
<b>Total*</b>	6,644	99.5%
<b>Missing</b>	33	0.5%

\*Total number of other teeth sealed by all grantees = 3,462

- 10.4% of students received a sealant on a tooth other than the first or second molar.
- In total 3,462 sealants were placed on teeth other than a first or second molar.

<b>Table 17. Type of Fluoride Treatment Given to Students Screened</b>		
	<b>All Grantees</b>	
	<b>Number of Students</b>	<b>Percent (%)</b>
<b>Varnish</b>	6,374	95.5%
<b>Gel/Foam/Rinse</b>	1	0.0%
<b>None</b>	259	3.9%
<b>Total</b>	6,634	99.4%
<b>Missing</b>	43	0.6%

- 3.9% of students did not receive a fluoride treatment of some form at the screening.
- 95.5% of students received a fluoride varnish treatment.