

SEAL! Michigan: Dental Sealant Program

2020-2021

113
Schools
Served

3,699
Students
Screened

3,661
Received Fluoride
Varnish

13,471
Sealants
Placed

SEAL! Michigan

Need for Further Treatment

Referred for Treatment
Minor Decay or Discomfort

98.1%

Urgent Dental Care Needs
Severe Decay, Abscessed, Pain, etc.

5.0%

Did you know?

A sealant is a thin protective coating that is placed on the chewing surface of the molar.

On average it takes **5 minutes** to place each sealant.



National & State Statistics

FACTS:

- Sealants protect against **≥80%** of cavities for up to **TWO YEARS**¹
- Students **miss about 51 million** school hours a year due to dental related issues²
- Sealants are the **BEST practice** approach at preventing decay⁴

National & State Comparison Ages 5-19 Years ³

	United States	Michigan
Experience Decay <i>Fillings, Crowns, Missing Teeth</i>	45.8%	48.1%
Untreated Cavities	18.0%	37.0%

References

¹Centers for Disease Control and Prevention: Vital Signs. (2016) Dental sealants prevent cavities: Effective protection for children—Vital Signs website. <https://www.cdc.gov/vitalsigns/pdf/2016-10-vitalsigns.pdf>

²Edelstein, B. & Reisine, S. (2015). Fifty-one million. *The Journal of the American Dental Association*, 146(8). 565-566. doi <https://doi.org/10.1016/j.adaj.2015.06.003>

³Fleming, E., Afful, J. (2018). Prevalence of total and untreated dental caries amount youth: United States, 2015-2016. *National Center for Health Statistics*, 307. Retrieved from <https://www.cdc.gov/nchs/data/databriefs/db307.pdf>

⁴School-based dental sealant programs. (2015). *Association of State and Territorial Dental Directors*. Retrieved from <https://www.astdd.org/docs/bpar-sealants-update-03-2015.pdf>

SEAL! Michigan

Michigan Dental Sealant Program

All Grantees Data Report

2020-2021 School Year

Fiscal Year 2021

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, 2020-September 30, 2021. 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.

Disclaimer: Primary teeth information is missing from three programs due to incorrect form version use.

Demographics Results

Table 1. Gender of Students Screened		
	All Grantees	
	Number of Students	Percent (%)
Male	1,808	49.3
Female	1,842	50.2
Total	3,650	99.5
Missing	19	0.5

- A total of 3,669 students were screened between October 1, 2020, and September 30, 2021, with 49.3% being male and 50.2% being female.

A total of 113 events sites were serviced by the Michigan Dental Sealant Program between October 1, 2020-September 30, 2021.

Table 2. Current Grade of Students Screened		
	All Grantees	
	Number of Students	Percent (%)
Kindergarten	642	17.5
1st	601	16.4
2nd	694	18.9
3rd	480	13.1
4th	432	11.8
5th	307	8.4
6th	172	4.7
7th	76	2.1
8th	62	1.7
9th	18	0.5
10th	22	0.6
11th	11	0.3
12th	2	0.1
NA	120	3.3
Total	3,639	99.2
Missing	30	0.8

- Students from kindergarten through 12th grades were screened, the majority coming from kindergarten and second grade.
- The average age of the students was 8.0 years and the range was between 4 and 23 years.

Table 3. Race of Students Screened		
	All Grantees	
	Number of Students	Percent (%)
Black	193	5.3
White	2,690	73.3
Asian	41	1.1
Hispanic	252	6.9
Arab American	2	0.1
American Indian/Alaskan Native	38	1.0
Native Hawaiian/Pacific Islander	2	0.1
Other	19	0.5
More than One Race	432	11.8
Unknown	0	0.0
Total	3,669	100.0
Missing	0	0.0

- The students were of various racial and ethnic backgrounds including Arab American, Hispanic and Black.
- Over 70% of the students were white, 5.3% were Black and 11.8% were multiracial.

Table 4. Special Health Care Need Status of Students Screened		
	All Grantees	
	Number of Students	Percent (%)
Has Special Health Care Needs	1,063	29.0
No Special Health Care Needs	2,531	69.0
Total	3,594	98.0
Missing	75	2.0

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

Table 5. Insurance Status of Students Screened		
	All Grantees	
	Number of Students	Percent (%)
Medicaid	14	0.4
Private	826	22.5
Healthy Kids Dental	1,905	51.9
Other	76	2.1
None	693	18.9
Unknown	79	2.2
Total	3,593	97.9
Missing	76	2.1

- Over half of the students were on Healthy Kids Dental Insurance and 22.5% were on private dental insurance.
- One in five had no dental insurance.

Screening Results

Table 6. Untreated Cavity Status of Students Screened

	All Grantees	
	Number of Students	Percent (%)
Untreated Cavities Present	1,148	31.3
No Untreated Cavities	2,511	68.4
Total	3,659	99.7
Missing	10	0.3

- At the time of the screening 31.3% of the students had untreated cavities.

Table 7. Caries Experience of Students Screened

	All Grantees	
	Number of Students	Percent (%)
Caries Experience	1,922	52.4
No Caries Experience	1,732	47.2
Total	3,654	99.6
Missing	15	0.4

- More than half 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	1,445	39.4
No Sealants Present	2,205	60.1
Total	3,650	99.5
Missing	19	0.5

- At the time of the screening, 39.4% of the students had at least one sealant present.

Table 9. Urgency of Needed Treatment among Students Screened

	All Grantees	
	Number of Students	Percent (%)
No Obvious Problem	2,486	67.8
Early Dental Care	1,005	27.4
Urgent Care Needed	165	4.5
Total	3,656	99.6
Missing	13	0.4

- One in four students were in need of early dental care.
- Almost 5% of the students were in need of urgent dental care.

Table 10. Referral for Treatment Recommended for Students Screened		
	All Grantees	
	Number of Students	Percent (%)
Referred for Treatment	3,600	98.1
Not Referred for Treatment	51	1.4
Total	3,651	99.5
Missing	18	0.5

- SEAL! Michigan recommends all students be referred to a dental home after being screened. Referrals could include paperwork and a list of dental referrals. In the 2020-2021 school year, 98.1% of students were referred for treatment.

Table 11. Referral Status by Urgency of Needed Treatment among Students Screened		
	All Grantees	
	Referred for Treatment	
Treatment Urgency	Yes	No
No Obvious Problem	2,433	44
Early Dental Care	995	6
Urgent Care Needed	165	0

- Of those students referred for dental treatment, 27.6% were in need of early dental care and 4.6% needed urgent care.

Table 12. Number of Decayed or Filled First Molars per Student Screened		
Number of First Molars	All Grantees	
	Number of Students	Percent (%)
0	3,168	86.3
1	227	6.2
2	127	3.5
3	60	1.6
4	81	2.2
Total	3,663	99.8
Missing	6	0.2

- More than 80% of the students screened had no decayed or filled first molars.
- Of the students screened, 2.2% 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	3,607	98.3
1	19	0.5
2	19	0.5
3	4	0.1
4	8	0.2
Total	3,657	99.7
Missing	12	0.3

- Of the students screened, 98.3% had no decay or fillings on their second molars.
- One in 500 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	2,078	56.6
1	245	6.7
2	275	7.5
3	171	4.7
4	855	23.3
Total*	3,624	98.8
Missing	45	1.2

- About 42% of screened students received at least one sealant on a first molar; 6.7% received one sealant, 7.5% received two sealants, 4.7% received three sealants and 23.3% received sealants on all four first molars.
- In total 4,728 sealants were placed on first molars.

*Total number of first molars sealed by all grantees: 4,728

Table 15. Number of Second Molars Sealed per Student Screened

Number of Second Molars	All Grantees	
	Number of Students	Percent (%)
0	3,380	92.1
1	49	1.3
2	51	1.4
3	30	0.8
4	103	2.8
Total*	3,613	98.5
Missing	56	1.5

- One in 16 students screened received at least one sealant on a second molar; 1.3% received one sealant, 1.4% received two sealants, 0.8% received three sealants and 2.8% received sealants on all four second molars.
- In total, 653 sealants were placed on second molars.

*Total number of second molars sealed by all grantees: 653

Table 16. Number of Other Teeth Sealed per Student Screened		
Number of Other Teeth	All Grantees	
	Number of Students	Percent (%)
0	2,941	80.2
1	119	3.2
2	88	2.4
3	66	1.8
4	92	2.5
5	43	1.2
6	66	1.8
7	49	1.3
8	156	4.3
Total*	3,620	98.7
Missing	49	1.3

*Total number of other teeth sealed by all grantees: 3,063

- 18.5% of students received a sealant on a tooth other than the first or second molar.
- In total 3,063 sealants were placed on teeth other than a first or second molar.

Table 17. Number of Sealed Primary Teeth per Student Screened		
Number of Primary Teeth	All Grantees	
	Number of Students	Percent (%)
0	2,362	64.4
1	81	2.2
2	76	2.1
3	73	2.0
4	102	2.8
5	50	1.4
6	86	2.3
7	79	2.2
8	356	9.7
Total*	3,265	89.0
Missing	404	11.0

*Total number of primary teeth sealed by all grantees: 5,027

- 24.6% of students received a sealant on their primary teeth.
- In total 5,027 sealants were placed on teeth other than a first or second molar.

Table 18. Type of Fluoride Treatment Given to Students Screened		
	All Grantees	
	Number of Students	Percent (%)
Varnish	3,005	81.9
Gel/Foam/Rinse	0	0.0
None	656	17.9
Total	3,661	99.8
Missing	8	0.2

- Fluoridation is recommended at these screenings; 81.9% of students received a fluoride varnish treatment.

The Michigan Department of Health and Human Services will not exclude from participation in, deny benefits of, or discriminate against any individual or group because of race, sex, religion, age, national origin, color, height, weight, marital status, gender identification or expression, sexual orientation, partisan considerations, or a disability or genetic information that is unrelated to the person’s eligibility.