

Oregon Oral Health Surveillance System



Oregon
Health
Authority

PUBLIC HEALTH DIVISION

Center for Prevention & Health Promotion

Oral Health Program

Table of Contents

- Pregnant Women 2
- Newborns: Incidence of Cleft Lip and/or Palate 3
- Children and Adolescents 4
- Elementary School Children 5
- Adolescents: 8th and 11th Grade School Children 6
- Adults 8
- Medicaid: Children and Adults 9
- Cancer Incidence and Mortality 10
- Oral Health Workforce 11
- Oral Health Infrastructure 12

Pregnant Women¹

Description of Indicator	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Women who had their teeth cleaned within the previous year before pregnancy	57.8%	58.3%	56.9%	59.3%	65.6%	65.1%	67.0%	61.7%	66.4%	70.1%
Women with a dental cleaning during pregnancy	56.1%	57.0%	50.5%	53.5%	53.7%	50.1%	53.2%	50.6%	44.5%	52.5%

¹ Source: Pregnancy Risk Assessment Monitoring System (PRAMS) of Oregon: an annual survey of postpartum women with live births.
www.healthoregon.org/prams/

Newborns: Incidence² of Cleft Lip and/or Palate^{3,4}

Description of Indicator	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Incidence rate of newborns with cleft lip with or without cleft palate per 10,000 live births	8.8	10.4	8.4	7.5	7.7	8.1	8.3	10.8	6.9	8.4	8.0	5.8	7.3
Number of newborns with cleft lip, with or without cleft palate	40	47	38	34	35	37	38	47	29	35	32	24	29
Incidence rate of newborns with cleft palate alone per 10,000 live births	4.4	4.2	3.1	3.1	3.1	3.7	2.4	3.7	4.7	5.0	2.5	4.4	3.0
Number of newborns with cleft palate alone	20	19	14	14	14	16	11	16	20	21	10	18	12

² Incidence is the number of new cases of a condition occurring during a given period as a proportion of the number of people in the population at risk

³ Oregon Vital Statistics www.healthoregon.org/vitalstats/

⁴ United States Department of Health and Human Services (US DHHS), Centers for Disease Control and Prevention (CDC), National Center for Health Statistics (NCHS), Division of Vital Statistics, Natality public-use data 2016-2018, on CDC WONDER Online Database, September 2019. Accessed at <http://wonder.cdc.gov/natality-expanded-current.html>

Children and Adolescents⁵

Description of Indicator	2016	2017	2018	2019	2020	2021	2022 ⁶
Any dental visit among children aged 1-17 years	82.5%	85.2%	84.8%	83.2%	80.5%	79.7%	83.9%
Preventive dental visit among children aged 1-17 years	79.6%	82.1%	80.2%	80.0%	77.2%	77.3%	80.9%
Children aged 0-5 with any dental visit in the past year	55.6% ⁷		60.7%	59.9%	53.1%	61.2%	70.9%
Percent of parents reporting condition of child's teeth as good, very good, or excellent (aged 1-17 years)	92.5%	94.3%	93.4%	92.7%	94.1%	94.1%	92.7%
Children (aged 1-17 years) with one or more oral health problems in past 12 months (toothache, decayed teeth, unfilled cavities) (parental report)	16.5%	14.8%	13.4%	16.5%	14.2%	15.1%	14.1%

⁵ National Survey of Children's Health (NSCH) <https://census.gov/programs-surveys/nsch.html>

The NSCH is a national survey that provides rich data on multiple, intersecting aspects of children's health and well-being – including physical and mental health, access to and quality of health care, and the child's family, neighborhood, school, and social context. The survey underwent a redesign in 2016 and is conducted annually by the US Census Bureau.

⁶ The Maternal and Child Health Bureau and the Census Bureau revised imputation and weighting by race and ethnicity for the 2022 NSCH. The updated weights are applied to the 2022 NSCH data but have not been applied to estimates prior to 2022.

⁷ 2016 and 2017 results are combined for the 0-5 age group due to small sample size

Elementary School Children⁸

Description of Indicator	Desired Direction	2002	2007	2012	2017
Children aged 6-9 years with cavities (treated and untreated, all teeth)	↘	57.3%	63.7%	52.0%	48.9%
3 rd Graders with cavities (treated and untreated, all teeth)	↘	60.7%	66.3%	57.5%	52.8%
Children aged 6-9 years with untreated decay (all teeth)	↘	23.9%	35.5%	19.9%	19.2%
3 rd Graders with untreated decay (all teeth)	↘	22.1%	35.4%	21.6%	17.7%
Children aged 6-9 years in need of urgent dental care	↘	2.7%	4.1%	3.0%	1.9%
3 rd Graders in need of urgent dental care	↘	2.1%	4.6%	3.3%	2.1%
Children aged 6-9 years with rampant decay (all teeth)	↘	15.7%	19.5%	13.6%	4.5%
3 rd Graders with rampant decay (all teeth)	↘	16.2%	19.5%	13.5%	4.1%
Children aged 6-9 years with protective sealants on at least one permanent molar	↗	32.3%	29.7%	38.1%	39.0%
3 rd Graders with protective sealants on at least one permanent molar	↗	50.8%	42.7%	52.4%	53.2%

⁸ Oregon Smile and Healthy Growth Survey: a screening survey conducted every 5 years by the Oral Health Program among children aged 6-9 years in 1st – 3rd grades.

Adolescents: 8th and 11th Grade School Children⁹

Description of Indicator	2011	2013	2015	2017	2019	2020	2022	
8 th graders who saw a dentist or dental hygienist during the previous year	72.2%	72.8%	73.0%	74.1%	74.3%	66.4%	66.9%	
11 th graders who saw a dentist or dental hygienist during the previous year	72.2%	74.5%	74.9%	73.9%	75.3%	69.0%	69.2%	
8 th graders who have had one or more cavities ever	71.4%	70.1%	68.7%	Question not asked ¹⁰	56.6%	Question changed, see below		
8 th graders who have had one or more cavities in the past year	Question not asked					14.8%	17.2%	
8 th graders who have had one or more cavities between 12 and 24 months ago	Question not asked					10.7%	15.2%	
8 th graders who have had one or more cavities more than 24 months ago	Question not asked					30.1%	29.2%	
11 th graders who have had one or more cavities ever	76.4%	74.0%	75.1%		64.6%	Question changed, see below		
11 th graders who have had one or more cavities in the past year	Question not asked					17.7%	21.6%	
11 th graders who have had one or more cavities between 12 and 24 months ago	Question not asked					11.5%	14.3%	
11 th graders who have had one or more cavities more than 24 months ago	Question not asked					33.4%	31.6%	
8 th graders who missed ≥ 1 hour of school during the previous year due to dental problems	8.1%	10.3%	9.0%			10.2%	5.0%	Question not asked
11 th graders who missed ≥ 1 hour of school during the previous year due to dental problems	7.9%	9.6%	8.2%			9.1%	4.9%	9.7%

⁹ Oregon Healthy Teens Survey: a survey of 8th and 11th graders. Updated every two years. www.healthoregon.org/oh/
 In 2020, OHA transitioned to the Student Health Survey <https://www.oregon.gov/oha/PH/BIRTHDEATHCERTIFICATES/SURVEYS/Pages/student-health-survey.aspx>

¹⁰ Some questions not included on survey due to survey size limitations.
 No survey conducted in 2016, 2018 or 2021

Description of Indicator	2011	2013	2015	2017	2019	2020	2022
8 th graders using spit (chewing) tobacco, snuff, or dip in the previous month	4.0%	1.9%	2.2%	1.1%	0.9%	0.6%	0.3%
11 th graders using spit (chewing) tobacco, snuff, or dip in the previous month	7.0%	5.7%	5.5%	3.4%	2.2%	1.3%	0.8%
8 th graders using cigarettes in the past month	6.6%	4.1%	4.3%	3.0%	2.6%	1.2%	1.3%
11 th graders using cigarettes in the past month	11.5%	9.4%	8.8%	7.7%	4.9%	2.9%	3.2%

Adults¹¹

Description of Indicator	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Adults aged ≥ 18 years with a dental visit in the previous year for any reason	63.8%	66.9%	65.6%	67.5%	67.2%	65.3%	67.9%	70.1%	68.4%	64.4%	66.1%
Men aged ≥ 18 years with a dental visit in the previous year for any reason	60.5%	64.3%	62.4%	63.5%	65.3%	60.5%	65.5%	66.4%	65.2%	61.0%	62.0%
Women aged ≥ 18 years with a dental visit in the previous year for any reason	66.9%	69.4%	68.6%	71.2%	69.0%	70.1%	70.9%	73.7%	71.5%	67.6%	70.1%
Adults aged ≥ 65 years with a dental visit in the previous year for any reason	65.8%	70.4%	67.3%	68.4%	70.7%	70.1%	69.4%	73.2%	70.9%	67.1%	71.4%
Adults aged ≥ 18 years with diabetes (any kind¹²) who had a dental visit in the previous year	56.6%	57.2%	62.3%	59.0%	60.4%	60.7%	60.2%	65.5%	63.0%	55.1%	61.3%
Adults aged ≥ 18 years with no tooth loss¹³	58.0%	58.4%	59.5%	58.1%	59.3%	56.0%	59.8%	57.6%	61.1%	59.5%	61.4%
Adults aged 18-64 years with no tooth loss	64.5%	65.2%	66.0%	65.9%	65.8%	62.4%	65.9%	64.5%	67.9%	66.3%	67.6%
Adults aged ≥ 65 years with no tooth loss	29.9%	31.2%	33.1%	31.7%	35.1%	32.9%	37.7%	34.9%	38.4%	37.9%	41.9%
Adults aged ≥ 65 years with significant tooth loss (have lost 6 or more teeth)	36.3%	32.2%	32.1%	33.4%	30.2%	31.5%	30.0%	28.4%	28.3%	25.1%	27.1%
Adults aged 18-64 years with significant tooth loss	10.1%	9.3%	8.1%	10.8%	9.8%	10.8%	10.6%	9.5%	7.9%	8.3%	8.8%
Adults aged ≥ 18 years who are edentulous (have no teeth)	5.1%	4.9%	5.1%	4.2%	4.8%	5.8%	5.6%	5.4%	4.8%	4.2%	4.4%
Adults aged ≥ 65 years who are edentulous (have no teeth)	15.6%	12.3%	13.0%	15.1%	13.3%	13.7%	13.7%	12.3%	12.3%	9.1%	9.8%

¹¹ Oregon Behavioral Risk Factor Surveillance System (BRFSS) www.healthoregon.org/brfss/. Updated annually.

¹² Includes adults with any kind of diabetes except those with diabetes only during pregnancy.

¹³ Includes teeth lost to infection, but not other reasons, such as injury or orthodontics.

Medicaid: Children and Adults¹⁴

Description of Indicator	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Children (aged ≤ 20 years) on Medicaid or CHIP with a dental visit for any reason during the previous year	39.5%	42.4%	42.7%	50.9%	38.2%	40.3%	39.6%	43.9%	43.6%	44.4%	37.9%	38.8%
Children (aged ≤ 18 years) on Medicaid with a dental visit for any reason during the previous year	39.9%	43.0%	43.4%	51.5%	39.3%	41.7%	40.9%	42.8%	45.1%	45.9%	39.4%	40.3%
Children (aged ≤ 20 years) on Medicaid or CHIP who had their teeth cleaned during the previous year	34.0%	37.3%	38.0%	48.3%	33.4%	35.6%	35.2%	39.5%	39.0%	39.8%	33.4%	35.4%
Children (aged ≤ 20 years) on Medicaid or CHIP with a dental visit for treatment during the previous year	19.0%	19.5%	18.6%	20.0%	15.3%	15.5%	15.4%	16.0%	16.6%	17.1%	13.7%	15.9%
Children aged 6-9 years on Medicaid or CHIP with dental sealants placed on permanent molars	14.5%	15.4%	14.8%	13.5%	12.1%	14.1%	17.6%	20.3%	21.1%	20.8%	14.6%	13.9%
Children aged 6-9 enrolled in a CCO with dental sealants placed on permanent molars ¹⁵	Reporting began in 2014				13.1%	20.7%	24.3%	26.7%	27.8%	29.6%	Measure changed	
Percentage of children enrolled in a CCO who received at least one sealant on permanent first molar teeth by their 10th birthday.	Reporting began in 2018								67.4%	72.2%	72.2%	67.6%
Adults aged (≥ 21 years) on Medicaid with a dental visit for any reason during the previous year ¹⁶	27.0%	26.7%	25.3%	24.3%	23.4%	27.1%	33.8%	36.8%	Measure changed			
Percentage of all CCO members who received any dental service.	Reporting began in 2018								46.6%	44.8%	33.9%	35.8%

¹⁴ Oregon EPSDT CMS 416 Reporting; Federal Fiscal year <https://www.medicaid.gov/medicaid/benefits/epsdt/index.html>

¹⁵ Oregon Medicaid Services/ OHA Health Policy and Analytics

¹⁶ CCO Metrics Program (2023). *CCO Metrics Performance Dashboard*. Portland, OR: Oregon Health Authority. <https://visual-data.dhsoha.state.or.us/t/OHA/views/CCOPerformanceMetrics/welcome>

Cancer Incidence and Mortality

Description of Indicator	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Oral/pharyngeal (throat) cancer incidence rate per 100,000 among all ages (age-adjusted) ¹⁷	10.6	11	9.8	11.7	12.3	13	11.5	12.8	12.4	12.6	11.9	12.4	11.4
Incidence rate per 100,000 (age-adjusted), all ages among <i>men</i>	15.1	15.5	13.7	17.8	18.4	19.6	15.7	18.8	18.7	19.3	17.6	18.6	16.4
Incidence rate per 100,000 (age-adjusted), all ages among <i>women</i>	6.5	6.8	6.4	6.2	6.6	6.9	7.6	7.3	6.7	6.5	6.6	6.7	6.9
Incidence rate per 100,000 (age-adjusted) among adults age 20+ ¹⁸	14.7	15.4	13.6	16.4	17.2	18.2	16.3	18	17.4	17.7	16.6	17.3	15.9
Incidence rate per 100,000 (age-adjusted) among adults age 65+	38.7	40.7	29.8	42.2	45.5	50.5	41.6	47.4	48.4	46.2	46.3	46.2	42.7
Percentage of oral/pharyngeal (throat) cancers diagnosed at early stage (early stage includes in-situ and local stage) ¹⁹	35.4 %	34.5 %	37.1 %	36.8 %	35.1 %	Data Unavailable			39.5 %	34.5 %	34.4 %	Data Unavailable	33.8 %
Number of deaths from oral and pharyngeal cancer ²⁰	104	103	98	107	119	118	138	166	161	145	148	170	154
Death rate per 100,000 people from oral and pharyngeal cancers (age-adjusted)	2.5	2.3	2.2	2.3	2.5	2.4	2.8	3.1	3.1	2.6	2.6	3.1	2.6
Death rate per 100,000 people from oral and pharyngeal cancers (age-adjusted) among <i>men</i>	3.9	3.0	3.3	3.3	3.7	3.5	4.1	4.0	4.4	4.4	4.0	4.7	3.7
Death rate per 100,000 people from oral and pharyngeal cancers (age-adjusted) among <i>women</i>	1.3	1.8	1.2	1.5	1.4	1.5	1.7	2.3	2.0	1.1	1.5	1.6	1.7

¹⁷ United States Cancer Statistics - Incidence: 1999 - 2017, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2020. Accessed at <http://wonder.cdc.gov/cancer-v2017.html>

¹⁸ CDC Wonder

¹⁹ National Program of Cancer Registries SEER*Stat Database (2001-2017) - United States Department of Health and Human Services, Centers for Disease Control and Prevention (based on the 2019 submission). Accessed at <https://statecancerprofiles.cancer.gov/index.html>

²⁰ United States Cancer Statistics - Mortality: 1999 - 2017, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention; 2020. Accessed at <http://wonder.cdc.gov/CancerMort-v2017.html> on Oct 15, 2020

Oral Health Workforce²¹

Description of Indicator	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Number of licensed dentists in Oregon²²	3,697	3,655	3,750	3,754	3,803	3,846	3,871	3,857	3,872	3,903	3,901	3,901	3,841
Number of licensed dentists with an Oregon working address²³	2,559	2,335	2,686	2,682	2,729	2,983	2,856	2,871	2,872	2,891	2,896	3,047	2,978
Population-to-practitioner ratio for all licensed dentists	1,038	1,055	1,036	1,044	1,042	1,044	1,053	1,074	1,083	1,085	1,094	1,745	1,753
Number of licensed pediatric dentists in Oregon	134	144	155	158	160	167	169	173	178	185	184	Not currently available	
Number of licensed pediatric dentists with an Oregon working address	88	91	102	106	111	122	116	127	130	139	136	Not currently available	
Number of licensed dental hygienists in Oregon	3,777	3,467	4,035	4,150	4,230	4,255	4,293	4,299	4,312	4,312	4,300	4,314	4,300
Number of licensed dental hygienists with an Oregon working address	2,369	2,371	2,522	2,579	2,676	3,416	2,835	2,979	2,956	2,985	2,977	3,225	3,162
Population-to-practitioner ratio for all licensed dental hygienists	1,016	1,113	963	944	937	943	950	963	973	982	993	2,022	2,033
Number of expanded practice dental hygienists	115	264	317	367	467	551	601	713	771	849	907	Not currently available	

²¹ Data through 2015 is from Oregon Board of Dentistry www.oregon.gov/dentistry/. Data from 2021 on is from: Health Care Workforce Reporting Program. (2022). *Oregon's health care workforce: Supply and profiles*. Portland, OR: Oregon Health Authority. <https://www.oregon.gov/oha/hpa/analytics/pages/health-care-workforce-reporting.aspx>

²³ License renewal does not require dentists or hygienists to submit a working address, these numbers may be an undercount of the full number of Oregon dentists and hygienists with an Oregon working address.

Oral Health Infrastructure

Description of Indicator	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Percent of the population served by community water systems who receive fluoridated water ²⁴	22.2%		21.8%		21.9%		22.5%		21.4%	22.1%
Percent of patients at Federally Qualified Health Centers receiving oral health services ²⁵	22.7%	24.8%	26.4%	28.1%	29.6%	30.1%	24.7%	26.62%	29.67%	
Percent of school-based health centers that offer dental services ²⁶	7%	18.2%	19.2%	21.1%	20.5%	14.1%	11.5%	14.8%	18.2%	

Contact:
 Kelly Hansen
 Research Analyst, Maternal & Child Health – Oral Health Program
 Center for Prevention and Health Promotion
 800 NE Oregon St., Suite 825
 Portland, OR 97232
kelly.hansen@oha.oregon.gov
oral.health@oha.oregon.gov



²⁴ Oregon Drinking Water Services <https://yourwater.oregon.gov/fluoride.php>

²⁵ HRSA's Uniform Data System <http://bphc.hrsa.gov/datareporting/index.html>

²⁶ Oregon School-Based Health Centers Status Reports www.healthoregon.org/sbhc/