

Oregon Oral Health Surveillance System



Oregon
Health
Authority

PUBLIC HEALTH DIVISION

Center for Prevention & Health Promotion

Oral Health Program

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Pregnant Women¹

Description of Indicator	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Women with a dental visit during pregnancy	48.8%	51.5%	53.5%	51.1%	52.2%	Question not asked ²				53.7%	50.1%
Women who received information on dental care during pregnancy from a provider	48.5%	51.3%	53.2%	55.4%	57.6%	56.0%	56.0%	54.9%	55.8%	Question not asked	
Women who had their teeth cleaned within the previous year before pregnancy	50.8%	49.7%	Question not asked		53.2%	56.1%	58.3%	50.5%	53.5%	65.6%	65.1%
Women who received advice on infant tooth decay	33.0%	34.4%	32.3%	33.5%	33.3%	24.4%	27.9%	30.6%	30.6%	Question not asked	
Women who needed to see a dentist for a problem during pregnancy	27.4%	30.3%	31.2%	26.3%	Question not asked		22.6%	22.5%	22.6%	Question not asked	

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

² PRAMS is designed by the Centers for Disease Control and Prevention (CDC) in multi-year phases. Some questions are not included in each phase due to survey space limitations.

Newborns: Incidence³ of Cleft Lip and/or Palate^{4,5}

Description of Indicator	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
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
Number of newborns with cleft lip, with or without cleft palate	40	47	38	34	35	37	38	47	29	35	32
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
Number of newborns with cleft palate alone	20	19	14	14	14	16	11	16	20	21	10

³ 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

⁴ Oregon Vital Statistics www.healthoregon.org/vitalstats/

⁵ 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 Adolescents⁶

Description of Indicator	2016	2017	2018	2019	2020
Any dental visit among children aged 1-17 years	82.5%	85.2%	84.8%	83.2%	80.5%
Preventive dental visit among children aged 1-17 years	79.6%	82.1%	80.2%	80.0%	77.2%
Children aged 0-5 with any dental visit in the past year	55.6% ⁷		60.7%	59.9%	53.1%
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%
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%

⁶ 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.

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	2012	2013	2014	2015	2016	2017	2018	2019
8 th graders who saw a dentist or dental hygienist during the previous year	72.2%	No Survey this year	72.8%	No Survey this year	73.0%	No Survey this year	74.1%	No Survey this year	74.3%
11 th graders who saw a dentist or dental hygienist during the previous year	72.2%		74.5%		74.9%		73.9%		75.3%
8 th graders who have had one or more cavities ever	71.4%		70.1%		68.7%		Question not asked ¹⁰		56.6%
11 th graders who have had one or more cavities ever	76.4%		74.0%		75.1%				64.6%
8 th graders who brush their teeth daily	94.7%		95.5%		95.0%				Question not asked ¹⁰
11 th graders who brush their teeth daily	96.0%		96.0%		95.0%				
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%		
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%		
8 th graders using spit (chewing) tobacco, snuff, or dip in the previous month	4.0%		1.9%		2.2%		1.1%		0.9%
11 th graders using spit (chewing) tobacco, snuff, or dip in the previous month	7.0%		5.7%		5.5%		3.4%		2.2%
8 th graders using cigarettes in the past month	6.6%	4.1%	4.3%	3.0%	2.6%				
11 th graders using cigarettes in the past month	11.5%	9.4%	8.8%	7.7%	4.9%				

⁹ Oregon Healthy Teens Survey: a survey of 8th and 11th graders. Updated every two years. www.healthoregon.org/oh/

¹⁰ Some questions not included on survey do to survey size limitations.

Adults¹¹

Description of Indicator	2012	2013	2014	2015	2016	2017	2018	2019
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%
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%
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%
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%
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%
Adults aged ≥18 years with no tooth loss¹³	58.0%	58.4%	59.5%	58.1%	59.3%	56.0%	59.8%	57.6%
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%
Adults aged ≥ 65 years with no tooth loss	29.9%	31.2%	33.1%	31.7%	35.1%	32.9%	37.7%	34.9%
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%
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%
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%
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%

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	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Children (aged ≤ 20 years) on Medicaid or CHIP with a dental visit for any reason during the previous year	31.0%	31.4%	32.8%	35.0%	39.5%	42.4%	42.7%	50.9%	38.2%	40.3%	39.6%	43.9%
Children (aged ≤ 18 years) on Medicaid with a dental visit for any reason during the previous year	31.3%	31.7%	33.1%	35.4%	39.9%	43.0%	43.4%	51.5%	39.3%	41.7%	40.9%	42.8%
Children (aged ≤ 20 years) on Medicaid or CHIP who had their teeth cleaned during the previous year	25.3%	26.4%	27.6%	29.5%	34.0%	37.3%	38.0%	48.3%	33.4%	35.6%	35.2%	39.5%
Children (aged ≤ 20 years) on Medicaid or CHIP with a dental visit for treatment during the previous year	16.0%	15.9%	15.8%	16.6%	19.0%	19.5%	18.6%	20.0%	15.3%	15.5%	15.4%	16.0%
Children aged 6-9 years on Medicaid or CHIP with dental sealants placed on permanent molars	Reporting began in 2010				14.5%	15.4%	14.8%	13.5%	12.1%	14.1%	17.6%	20.3%
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%
Adults aged (≥ 21 years) on Medicaid with a dental visit for any reason during the previous year¹⁶	29.9%	29.6%	28.7%	30.1%	27.0%	26.7%	25.3%	24.3%	23.4%	27.1%	33.8%	36.8%

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 Ibid.

Cancer Incidence and Mortality

Description of Indicator	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
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	11.8	11.4
Incidence rate per 100,000 (age-adjusted), all ages among <i>men</i>	15.0	15.6	13.6	17.8	18.4	19.7	15.9	18.7	18.5	18.2	16.9
Incidence rate per 100,000 (age-adjusted), all ages among <i>women</i>	6.6	6.8	6.3	6.2	6.6	6.9	7.5	7.3	6.8	6.1	6.3
Incidence rate per 100,000 (age-adjusted) among adults age 20+	14.7	15.4	13.7	16.4	17.2	18.2	16.2	17.8	17.1	16.6	15.8
Incidence rate per 100,000 (age-adjusted) among adults age 65+	38.7	40.7	29.8	42	45.5	50.4	40.9	47.3	47.6	42.9	43.8
Percentage of oral/pharyngeal (throat) cancers diagnosed at early stage (early stage includes in-situ and local stage) ¹⁸	35.4%	34.5%	37.1%	36.8%	35.1%	Data unavailable			39.5%	34.5%	34.4%
Number of deaths from oral and pharyngeal cancer ¹⁹	104	103	98	107	119	119	138	165	161	145	148
Death rate per 100,000 people from oral and pharyngeal cancers (age-adjusted)	2.2	2.5	2.3	2.1	2.4	2.4	2.4	2.8	3.1	2.6	2.6
Death rate per 100,000 people from oral and pharyngeal cancers (age-adjusted) among <i>men</i>	3.9	3.0	3.2	3.4	3.7	3.5	4.1	4	4.4	4.3	3.9
Death rate per 100,000 people from oral and pharyngeal cancers (age-adjusted) among <i>women</i>	1.3	1.7	1.1	1.5	1.3	1.4	1.7	2.3	1.9	1.1	1.5

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> on Oct 15, 2020

¹⁸ 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>

¹⁹ 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 Workforce²⁰

Description of Indicator	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Number of licensed dentists in Oregon²¹	3,697	3,655	3,750	3,754	3,803	3,846	3,871	3,857	3,872	3,903	3,901
Number of licensed dentists with an Oregon working address²²	2,559	2,335	2,686	2,682	2,729	2,983	2,856	2,871	2,872	2,891	2,896
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
Number of licensed pediatric dentists in Oregon	134	144	155	158	160	167	169	173	178	185	1844
Number of licensed pediatric dentists with an Oregon working address	88	91	102	106	111	122	116	127	130	139	136
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
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
Population-to-practitioner ratio for all licensed dental hygienists	1,016	1,113	963	944	937	943	950	963	973	982	993
Number of expanded practice dental hygienists	115	264	317	367	467	551	601	713	771	849	907

²⁰ Oregon Board of Dentistry www.oregon.gov/dentistry/

²¹ More information about Oregon's Healthcare Workforce can be found at <https://www.oregon.gov/oha/hpa/analytics/Pages/Health-Care-Workforce-Reporting.aspx>

²² 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	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Percent of the population served by community water systems who receive fluoridated water ²³	27.3%		22.6%		22.6%		22.2%		21.8%		21.9%		22.5%
Percent of patients at Federally Qualified Health Centers receiving oral health services ²⁴	Dental reporting available beginning in 2013					23.4%	22.7%	24.8%	26.4%	28.1%	29.6%	30.1%	24.7%
Percent of school-based health centers that offer dental services ²⁵	Dental data available beginning in 2014-15 school year						7%	18%	19%	21%	20%	14%	Not yet available

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²³ Oregon Drinking Water Services <https://yourwater.oregon.gov/fluoride.php>

²⁴ HRSA's Uniform Data System <http://bphc.hrsa.gov/datareporting/index.html>

²⁵ Oregon School-Based Health Centers Status Reports www.healthoregon.org/sbhc/