

**North Dakota Oral Health Program
Surveillance System Indicators
Question Matrix**

| | Question(s) Used | Numerator | Denominator | Comments |
|---|--|---|---|--|
| Children and Youth | | | | |
| Head Start Program Information Report (PIR) - Annual | | | | |
| Percentage of Head Start children who had a dental examination in the past year | Number of all children (including those enrolled in Medicaid or SCHIP) who have completed a professional dental examination during the current operating period or within the last 12 months. (e.g., children examined during the summer months prior to the start of the class session). Include dropouts, re-enrollees, and late enrollees if they have completed a professional dental examination. | Number of all enrolled children who have completed a professional dental examination during the current operating period or within the last 12 months. | Number of all enrolled children. | These questions are from the 2006-2007 PIR and apply to preschool programs only (children ages 3-5). |
| Percentage of Head Start children examined who need dental treatment | Of the children examined, the number of children diagnosed within the current operation period or within the last 12 months as needing treatment. Treatment includes restoration, pulp therapy, or extraction. It does NOT include fluoride application or cleaning. | Number of all enrolled children who have completed a professional dental examination during the current operating period or within the last 12 months AND diagnosed as needing treatment. | Number of all enrolled children who have completed a professional dental examination during the current operating period or within the last 12 months. | |
| Percentage of Head Start children examined and needing dental treatment who receive treatment | Of the children diagnosed within the current operating period or within the last 12 months, the number of children who have received or are receiving treatment. Treatment does NOT include fluoride application or cleaning. | Number of all enrolled children who have completed a professional dental examination during the current operating period or within the last 12 months AND diagnosed as needing treatment AND receiving treatment. | Number of all enrolled children who have completed a professional dental examination during the current operating period or within the last 12 months AND diagnosed as needing treatment. | |
| Percentage of Head Start children examined who received preventive care | Of the children examined, the number of children who received preventive care. Preventive care includes fluoride application, cleaning, sealant application, etc. | Number of all enrolled children who have completed a professional dental examination during the current operating period or within the last 12 months AND who received preventive care. | Number of all enrolled children who have completed a professional dental examination during the current operating period or within the last 12 months. | |

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| Basic Screening Survey (BSS) - Every 3-5 Years | | | | |
| Percentage of 3rd grade students with dental sealants on at least one permanent molar | Sealants: 0 = No sealants present 1 = Sealants are present | Number of children screened with sealants present. (observed) | Number of children screened and with valid data reported. | During the 2004-2005 school year, the ND Dept. of Health conducted a statewide oral health survey of third grade children enrolled in public, state or Bureau of Indian Affairs elementary schools in N D. Fifty-three schools were included in the probability sample and 50 agreed to participate. Dental hygienists screened 1,015 children using a disposable dental mirror and penlight. Within the 50 participating schools, 73 percent of the enrolled children were screened. |
| Percentage of 3rd grade students with caries experience (treated or untreated) | Caries Experience: 0 = No caries experience 1 = Caries experience | Number of children screened with caries experience. (observed) | Number of children screened and with valid data reported. | |
| Percentage of 3rd grade students with untreated tooth decay | Untreated cavities: 0 = No untreated cavities 1 = Untreated cavities | Number of children screened with untreated cavities. (observed) | Number of children screened and with valid data reported. | |
| Percentage of 3rd grade students in need of urgent care | Treatment Urgency: 0 = No obvious problem 1 = Early dental care 2 = Urgent care | Number of children screened needing urgent care. (observed) | Number of children screened and with valid data reported. | |
| Percentage of 3rd grade students who have had a previous dental visit | Dental Visits: 0 = Never been to the dentist 1 = Have seen a dentist | Number of children screened who have seen a dentist. (reported by child) | Number of children screened and with valid data reported. | |
| Medicaid Claims - Annual | | | | |
| Percentage of Medicaid enrolled children who had a dental visit during the year | Not applicable | Number of children age 0-20 enrolled in Medicaid for at least 1 month of the calendar year who had a dental visit during the calendar year. | Number of children age 0-20 enrolled in Medicaid for at least 1 month of the calendar year. | |
| Vital Records - Annual | | | | |
| Number of babies born with cleft lip/cleft palate | Not applicable | Not applicable | Not applicable | This number is provided annually by the NDDoH Division of Vital Records. |
| Rate per 1,000 births of babies born with cleft lip/cleft palate | Not applicable | Number of births with cleft palate | Number of births | rate = (number of births with cleft lip or cleft palate / number of all births) X 1,000 |

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|--|--|--|--|--|
| Youth Risk Behavior Survey (YRBS) - Every 2 Years | | | | |
| <u>Grades 9-12</u> | | | | |
| Percentage of youth reporting a dental visit in the last year | When was the last time you saw a dentist for a check-up, exam, teeth cleaning, or other dental work? | Number of youth who responded that they had seen a dentist in the past 12 months. | Number of youth who gave a valid response to the question. | The high school YRBS is conducted in odd years in randomly selected high schools. It is a paper and pencil survey completed by youth in grades 9 through 12. Data is weighted so it can be generalized to the state population of youth in grades 9 through 12. |
| Percentage of youth reporting no cavities | How many cavities have you had in your permanent teeth? | Number of youth who responded that they have had 0 cavities in their permanent teeth. | Number of youth who gave a valid response to the question. | |
| Percentage of youth reporting one or more cavities | How many cavities have you had in your permanent teeth? | Number of youth who responded that they have had 1 or more cavities in their permanent teeth. | Number of youth who gave a valid response to the question. | |
| Percentage of youth reporting use of chewing tobacco, snuff or dip in the past 30 days | During the past 30 days, on how many days did you use chewing tobacco, snuff, or dip, such as Redman, Levi Garrett, Beechnut, Skoal, Skoal Bandits, or Copenhagen? | Number of youth who responded that they had used these products on one or more days in the past 30 days. | Number of youth who gave a valid response to the question. | |
| <u>Grades 7-8</u> | | | | |
| Percentage of youth reporting a dental visit in the last year | During the past 12 months, did you visit the dentist for a check-up, exam, teeth cleaning, or other dental work? (Do not include visits for orthodontics/braces.) | Number of youth who responded 'Yes'. | Number of youth who gave a valid response ('Yes' or 'No'). | The middle school YRBS is conducted in odd years in randomly selected middle schools. It is a paper and pencil survey completed by youth in grades 7 and 8. Data is weighted so it can be generalized to the state population of youth in grades 7 and 8. |
| Percentage of youth reporting use of chewing tobacco, snuff or dip in the past 30 days | During the past 30 days, on how many days did you use chewing tobacco, snuff, or dip, such as Redman, Levi Garrett, Beechnut, Skoal, Skoal Bandits, or Copenhagen? | Number of youth who responded that they had used these products on one or more days in the past 30 days. | Number of youth who gave a valid response to the question. | |

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| Youth Tobacco Survey (YTS) - Every 2 Years | | | | |
| <u>Grades 9-12</u> | | | | |
| Percentage of youth who have ever used chewing tobacco, snuff or dip | Have you ever used chewing tobacco, snuff, or dip, such as Redman, Levi Garrett, Beechnut, Skoal, Skoal Bandits, or Copenhagen? | Number of youth who responded 'Yes'. | Number of youth who gave a valid response ('Yes' or 'No'). | The high school YTS is conducted in odd years in randomly selected high schools. It is a paper and pencil survey completed by youth in grades 9 through 12. Data is weighted so it can be generalized to the state population of youth in grades 9 through 12. |
| Percentage of youth who have used chewing tobacco, snuff or dip in the past 30 days | During the past 30 days, on how many days did you use chewing tobacco, snuff, or dip? | Number of youth who responded that they had used these products on one or more days in the past 30 days. | Number of youth who gave a valid response to the question. | |
| <u>Grades 7-8</u> | | | | |
| Percentage of youth who have ever used chewing tobacco, snuff or dip | Have you ever used chewing tobacco, snuff, or dip, such as Redman, Levi Garrett, Beechnut, Skoal, Skoal Bandits, or Copenhagen? | Number of youth who responded 'Yes'. | Number of youth who gave a valid response ('Yes' or 'No'). | The middle school YTS is conducted in odd years in randomly selected middle schools. It is a paper and pencil survey completed by youth in grades 7 and 8. Data is weighted so it can be generalized to the state population of youth in grades 7 and 8. |
| Percentage of youth who have used chewing tobacco, snuff or dip in the past 30 days | During the past 30 days, on how many days did you use chewing tobacco, snuff, or dip? | Number of youth who responded that they had used these products on one or more days in the past 30 days. | Number of youth who gave a valid response to the question. | |
| Adults and Elderly | | | | |
| Medicaid Claims - Annual | | | | |
| Percentage of Medicaid enrolled adults who had a dental visit during the year | Not applicable | Number of adults age 21+ enrolled in Medicaid for at least 1 month of the calendar year who had a dental visit during the calendar year. | Number of adults age 21+ enrolled in Medicaid for at least 1 month of the calendar year. | |

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| Behavioral Risk Factor Surveillance System (BRFSS) - Annual (Oral Health modules every other year) | | | |
| Percentage of adults 18 and older who have visited a dentist or dental clinic in the past year | How long has it been since you last visited a dentist or a dental clinic for any reason? Include visits to dental specialists, such as orthodontists. | Number of persons who report visiting a dentist or dental clinic in the past year. | Number of persons age 18 and older. |
| Percentage of adults 18 and older who have had their teeth cleaned in the past year (among adults with natural teeth who have ever visited a dentist or dental clinic) | How long has it been since you had your teeth cleaned by a dentist or dental hygienist? | Number of persons who report having their teeth cleaned in the past year. | Number of persons age 18 and older. |
| Percentage of adults 65 and older who have lost all of their natural teeth due to tooth decay or gum disease | How many of your permanent teeth have been removed because of tooth decay or gum disease? Include teeth lost to infection, but do not include teeth lost for other reasons, such as injury or orthodontics. | Number of persons, aged 65 and older, who report all of their teeth have been removed. | Number of persons, aged 65 and older. |
| Percentage of adults 65 and older who have lost six or more teeth due to tooth decay or gum disease | How many of your permanent teeth have been removed because of tooth decay or gum disease? Include teeth lost to infection, but do not include teeth lost for other reasons, such as injury or orthodontics. | Number of persons, aged 65 and older, who report 6 or more of their teeth have been removed. | Number of persons, aged 65 and older. |
| Percentage of adults 18 and older with diabetes who have visited a dentist or dental clinic in the past year | How long has it been since you last visited a dentist or a dental clinic for any reason? Include visits to dental specialists, such as orthodontists. Have you ever been told by a doctor that you have diabetes? | Number of persons who report visiting a dentist or dental clinic in the past year AND who report being diagnosed with diabetes. | Number of persons who report being diagnosed with diabetes. |
| Percentage of adults 18 and older who currently use spit tobacco | Do you currently use chewing tobacco or snuff every day, some days, or not at all? | Number of persons who use chewing tobacco or snuff every day or some days. | Number of persons age 18 and older. |

Random sample telephone survey of non-institutionalized adults. Data is weighted so it can be generalized to the adult population in the state

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| Pregnancy Risk Assessment Monitoring system (PRAMS) - Varies | | | | |
| Percentage of women who had a dental visit during their pregnancy | This question is about the care of your teeth during your most recent pregnancy. For each thing, circle Y (Yes) if it is true or N (No) if it is not true. | Number of women who responded 'Y' to item b. | Number of women who gave a valid response. | The PRAMS sample of women who have had a recent live birth is drawn from the state's birth certificate file. Selected women are first contacted by mail. If there is no response to repeated mailings, women are contacted and interviewed by telephone. |
| Percentage of pregnant women who received information from a health care provider on the importance of dental care during and after pregnancy | a. I needed to see a dentist for a problem b. I went to a dentist or dental clinic c. A dental or other health care worker talked with me about how to care for my teeth and gums | Number of women who responded 'Y' to item c. | Number of women who gave a valid response. | |
| Percentage of pregnant women (new mothers) who had teeth cleaned within the last year | How long has it been since you had your teeth cleaned by a dentist or dental hygienist? | Number of women who responded 12 months or fewer. | Number of women who gave a valid response. | |
| All Ages - State Level | | | | |
| Cancer Registry - Annual | | | | |
| Age adjusted incidence rate per 100,000 population of new cases of oral and pharyngeal cancer | Not applicable | Number of new cases of oral and pharyngeal cancer diagnosed during the calendar year. | Number of persons (North Dakota population) | incidence rate = (number of new cases / population of group) X 100,000 |
| Vital Records - Annual | | | | |
| Number of oral and pharyngeal cancer deaths | Not applicable | Not applicable | Not applicable | This number is provided annually by the NDDoH Division of Vital Records. |
| Age-adjusted mortality rate per 100,000 population caused by oral and pharyngeal cancers | Not applicable | Number of deaths due to oropharyngeal cancer (ICD-10 codes C00-C14) | Number of persons (North Dakota population) | mortality rate = (number of deaths / population of group) X 100,000 |

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| Licensure Workforce Survey - Every 2 Years | | | | |
| Number of Full-Time-Equivalent (FTE) licensed practicing dentists | Not applicable | Not applicable | Not applicable | A survey is conducted every 2 years at the time of licensure renewal for dentists, dental hygienists and dental assistants. ND Board of Dental Examiners sends out the survey and provides the count in each group. Starting in June 2008, counts will be requested from the NDBDE annually for the state's Synopsis report. rate = (number of practicing dentists / population of North Dakota) X 100,000 |
| Rate of practicing dentists per 100,000 population | Not applicable | Number of practicing dentists. | North Dakota population. | |
| Number of FTE licensed dental hygienists | Not applicable | Not applicable | Not applicable | |
| Number of FTE certified dental assistants | Not applicable | Not applicable | Not applicable | |
| Dental Workforce Survey - Every 2 years | | | | |
| Percentage of practicing dentists who work part-time | Overall Employment (select one): <input type="checkbox"/> Full-time <input type="checkbox"/> Part-time <input type="checkbox"/> Retired <input type="checkbox"/> Not employed <input type="checkbox"/> Not practicing in ND <input type="checkbox"/> Working in another field | Number of practicing dentists who work part-time | Number of practicing dentists | The Dental Workforce Survey is conducted every 2 years. All dentists in the state are mailed a paper survey. This survey is conducted by the UND Center for Rural Health in partnership with the NDDoH Oral Health Program. |
| Percentage of practicing dentists who plan to retire in 1 to 5 years | In how many years do you plan to retire from full-time practice? (check one) <input type="checkbox"/> 1-5 <input type="checkbox"/> 6-10 <input type="checkbox"/> 11-15 <input type="checkbox"/> 16+ <input type="checkbox"/> Undecided <input type="checkbox"/> Already retired | Number of practicing dentists who plan to retire in 1 to 5 years | Number of practicing dentists | |

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| Percentage of practicing dentists who accept all Medicaid patients | Indicate which statement best describes the Medicaid patient activity in your practice (check one): <input type="checkbox"/> Accept any and all Medicaid patients that present for treatment <input type="checkbox"/> Limit the number of NEW Medicaid patients <input type="checkbox"/> Treat only Medicaid patients that are currently patients of record of the practice <input type="checkbox"/> Only treat Medicaid patients on an emergency basis <input type="checkbox"/> Do not see any Medicaid patients in the practice <input type="checkbox"/> Other (describe) | Number of practicing dentists who accept any and all Medicaid patients that present for treatment | Number of practicing dentists | |
| Water Fluoridation Reporting System (WFRS) - Annual | | | | |
| Percentage of people served by public water systems who receive fluoridated water | Not applicable | Number of people served by public water systems who receive fluoridated water. | Number of people served by public water systems. | Water Fluoridation Reporting System (WFRS) data. Provided monthly and in an end of year report by the NDDoH Division of Municipal Facilities. |
| Percentage of public water systems that maintain optimal fluoride levels | Not applicable | Number of public water systems that maintain optimum fluoride levels in at least 8 of 12 months in a calendar year. | Number of public water systems. | |