NEBRASKA STATE ORAL HEALTH ASSESSMENT 2016

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Office of Oral Health
Division of Public Health
Nebraska Health and Human Services

SILENT EPIDEMIC OF ORAL DISEASE IN THE UNITED STATES 2000
"WITHOUT GOOD ORAL HEALTH, YOU ARE NOT HEALTHY"
PROFOUND DISPARITIES EXIST AMONG CERTAIN POPULATIONS

2.7 TRILLION SPENT ON HEALTH CARE 2011
$110 BILLION (4%) SPENT ON DENTAL CARE IN 2011
181 MILLION PEOPLE DID NOT VISIT A DENTIST IN 2010
AMERICA IS IN A DENTAL CRISIS: AMERICAN DENTAL ASSOCIATION 2013
200,000 dentists in the United States
80% are general dentists
20% are specialists
5% are in public health
Majority of patients go to private offices

Underserved groups include: rural residents, low income, minorities, disabled, young children, elderly, veterans, and new immigrants/refugees

State dental programs: critical to the successful implementation and coordination of preventive services, education and access to care to help bring health equity to all Americans.
DENTAL DATA AND SURVEILLANCE SOURCES

NATIONAL
HEALTH AND NUTRITION SURVEY
CDC DIVISION OF ORAL HEALTH
CDC CHILDREN'S ORAL HEALTH
AMERICAN DENTAL ASSOCIATION
NATIONAL ORAL HEALTH SURVEILLANCE SYSTEM
NATIONAL SURVEY OF CHILDREN WITH SPECIAL NEEDS
COUNCIL OF STATE AND TERRITORIAL EPIDEMIOLOGISTS

NEBRASKA
ADULT BEHAVIOR RISK FACTOR SURVEY
NEBRASKA YOUTH RISK BEHAVIOR SURVEY
2005 NEBRASKA THIRD GRADE DENTAL SURVEY
UNMC HEALTH PROFESSIONAL TRACKING SERVICE
NEBRASKA MEDICAID AND LONG TERM CARE
NEBRASKA HOSPITAL ASSOCIATION
NEBRASKA SMOKLESS TOBACCO SURVEY
NEBRASKA CANCER REGISTRY
NEBRASKA ANNUAL KIDS COUNT REPORT

HEALTHY PEOPLE 2020
1,200 OBJECTIVES, 42 PUBLIC HEALTH AREAS,
26 LEADING HEALTH INDICATORS, 12 TOPICS
ORAL HEALTH LISTED FOR FIRST TIME 2010
PROGRESS ON ALL EXCEPT MENTAL AND DENTAL 2015
### National Healthy People 2020 17 Dental Objectives
### Nebraska Healthy People 2020 9 Dental Objectives

<table>
<thead>
<tr>
<th>Objective</th>
<th>U.S. Baseline</th>
<th>U.S. Target</th>
<th>NE Baseline</th>
<th>NE Target</th>
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</thead>
<tbody>
<tr>
<td>OH-1: Decrease dental caries experience: Child</td>
<td>33.3%</td>
<td>30.0%</td>
<td>59.3%</td>
<td>53.4%</td>
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<td>Age 3-5</td>
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<td>Age 6-9</td>
<td>54.4%</td>
<td>49.0%</td>
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<td>49.0%</td>
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<td>Age 13-15</td>
<td>53.7%</td>
<td>48.3%</td>
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<tr>
<td>OH-2: Decrease untreated dental decay: Child</td>
<td>23.8%</td>
<td>21.4%</td>
<td>17.0%</td>
<td>15.3%</td>
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<tr>
<td>Age 3-5</td>
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<tr>
<td>Age 6-9</td>
<td>28.8%</td>
<td>25.9%</td>
<td>15.3%</td>
<td>13.3%</td>
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<tr>
<td>Age 13-15</td>
<td>17.0%</td>
<td>15.3%</td>
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<td>OH-3: Decrease untreated dental decay: Adult</td>
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<td>Age 35-44 (any surface)</td>
<td>27.8%</td>
<td>25.0%</td>
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<tr>
<td>Age 65-75 (coronal caries)</td>
<td>17.1%</td>
<td>15.4%</td>
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<td>Age 75+ (root surface caries)</td>
<td>37.9%</td>
<td>34.1%</td>
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<td>OH-4: Decrease tooth extractions: Adult</td>
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<td>45-64 years (single due to caries or perio)</td>
<td>76.4%</td>
<td>68.8%</td>
<td>45.3%</td>
<td>43.5%</td>
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<tr>
<td>65-74 years (all teeth)</td>
<td>24.0%</td>
<td>21.6%</td>
<td>10.7%</td>
<td>10.3%</td>
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<td>OH-5: Decrease moderate or severe periodontitis</td>
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<tr>
<td>45-74 years</td>
<td>12.8%</td>
<td>11.5%</td>
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<td>OH-6: Increase early detection of oral cancer</td>
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<td></td>
<td>32.5%</td>
<td>35.8%</td>
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<td>OH-7: Increase access oral health care system/year</td>
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<td></td>
<td>44.5%</td>
<td>49.0%</td>
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<td>OH-8: Increase low-income children to preventive care</td>
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<td></td>
<td>30.2%</td>
<td>33.2%</td>
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<td>OH-9: Increase school-based health centers with</td>
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<tr>
<td>Dental sealants</td>
<td>24.1%</td>
<td>26.5%</td>
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<tr>
<td>Dental treatment care</td>
<td>10.1%</td>
<td>11.1%</td>
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<tr>
<td>Topical fluorides</td>
<td>29.2%</td>
<td>32.1%</td>
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**OH-10: INCREASE ORAL HEALTH PROGRAMS IN:**
- FQHCs 75% 83%
- Local health departments 25.8% 28.4%

**OH-11:**
- Increase FQHC # of dental patients/year 17.5% 33.3% 21.0% 31.6%

**OH-12:**
- Increase # of dental sealants on molar teeth
  - 3-5 years (primary) 1.4% 1.5%
  - 6-9 years (permanent) 25.5% 28.1% 45.3% 47.6%
  - 13-15 years (permanent) 19.9% 21.9%

**OH-13:**
- Increase community water fluoridation 72.4% 79.6% 68.2% 75.4%

**OH-14:**
- Increase adults receiving preventive intervention
  - Tobacco cessation DNA
  - Oral cancer screening DNA
  - Glycemic control DNA

**OH-15:**
- Increase state recording of cleft lip and palates
  - Recording system DNA
  - Referral system DNA

**OH-16:**
- Increase states with dental surveillance systems 32 states 51 states/DC

**OH-17:**
- Increase dental programs directed by dental professional with public health training
  - Local agencies > 250,000 pop' l 23.4% 25.7%
  - IHS/Tribal > 30,000 pop' l 11 programs 12 programs
77,353 SQUARE MILES
1,868,516 PEOPLE
93 COUNTIES
2/3RDs LIVE IN 13 METRO COUNTIES
OMAHA/LINCOLN/GRAND ISLAND

U.S. DENTAL DISEASE ACROSS THE LIFESPAN
1/3 OF CHILDREN 0-5 HAVE EXPERIENCED DECAY
1/2 OF YOUTH 6-15 HAVE EXPERIENCED DECAY
90% OF ADULTS 45-64 HAVE EXPERIENCED DECAY
75% OF ADULTS 45-64 HAVE HAD TOOTH EXTRACTION
1/4 OF ADULTS 65-75 HAVE HAD ALL TEETH EXTRACTION

U.S. CHILDREN 0-5
EARLY CHILDHOOD CARIES
HOSPITAL OPERATION ROOM COSTS
FIRST NE: HS SURVEY 2015-2016
U.S. / NE. YOUTH 6-18
NEED PROPER ORAL HYGIENE
HIGH SUGAR IN DIET
NEW NE. 3RD GRADE SURVEY 2015-2016

U.S. ADULTS 19-64
WORKING CLASS
CARIES EXPERIENCE 80-90%

U.S. NE. ADULT 45-64
TOOTH EXTRACTIONS
BRFSS SURVEY DATA
U.S. ELDERS 65+  
FAステッド GROWING POPULATION  
MEDICAL ISSUES/TRANSPORTATION  
FUTURE NE. OLDER ADULT SURVEY 2017/2018

U.S. ADULTS 19-64  
PERIODONTAL DISEASE  
DIFFICULT TO MEASURE

NEBRASKA VULNERABLE POPULATION GROUPS
NEBRASKA RURAL RESIDENTS

One third rural... over 600,000 people.
Half of state is a dental shortage area.
20 counties have no full time dentist.
Rural/urban population shifting now.

All permanent teeth extracted, adults 65+
Any permanent tooth extracted
Teeth cleaned in past 12 months
Dental visit for any reason in past 12 months

Rural Residents’ Oral Health Status Compared to Urban Residents in NE

Percentage of Dentists

Number of Dentists in Rural and Urban Counties, Nebraska 2008-2012
LOW INCOME AND UNINSURED

2015 15.3% of working class w/o health insurance
two times as many without dental insurance
about 350,000 Nebraskans w/o dental benefits
ACA has lowered health % but dental only for children
many people turn to safety net system for episodic care
fewer people have established dental homes
NEBRASKA MINORITIES
19.5%, 350,000 PEOPLE
HISPANIC LARGEST POPULATION 10%
EXPECTED TO INCREASE TO 20% IN 2050
NATIVE AMERICANS 3-5 TIMES U.S. DISEASE RATE

NEBRASKA PEOPLE WITH DISABILITY NEEDS
OVER 10% WITH ONE OR MORE DISABILITIES
MORE THAN 200,000 PEOPLE
PHYSICAL BARRIERS / COMMUNICATION CHALLENGES TO ORAL HYGIENE
DIFFICULT TO FIND TRAINED PROVIDERS

NEBRASKA 140,000 VETERANS
9,500 RESERVE AND NATIONAL GUARD
8,000 ACTIVE DUTY
5,500 OEF/OIF VETERANS
MUST QUALIFY FOR DENTAL BENEFITS
NEBRASKA IMMIGRANTS AND REFUGEES
115,000 LEGAL – 45,000 UNDOCUMENTED
1,300 NEW REFUGEES IN 2015
HIGHER DENTAL NEEDS
CULTURE / HEALTH LITERACY CHALLENGES

SMOKELESS TOBACCO USE
SMOKING GOING DOWN SMOKELESS STEADILY
9 MILLION USERS IN US 75K IN NEBRASKA
400,000 AGE 12-17 ATHLETES TARGETED
$450 MILLION SPENT BY COMPANIES TO PROMOTE

ORAL AND PHARYNGEAL CANCER
12TH LEADING CAUSE OF CANCER
U.S. 30,000 NEW CASES EACH YEAR
U.S. 8,000 DEATHS PER YEAR
MLC, CLEFT LIP AND PALATE REGISTRY
DHHS ORAL HEALTH MISSION GOAL:

TO ACHIEVE BETTER ORAL HEALTH AND OVERALL HEALTH FOR ALL NEBRASKA POPULATIONS ACROSS THE LIFESPAN.

NEBRASKA ORAL HEALTH FOCUS AREAS

#1- PUBLIC POLICY / OH WORKFORCE CAPACITY
#2- ENHANCE DENTAL DISEASE SURVEILLANCE
#3- INCREASE CARE ACCESS AND REDUCE DISPARITIES
#4- EXPAND COMMUNITY PREVENTION PROGRAMS
#5- PROMOTE ORAL HEALTH AND LITERACY STATEWIDE
GOAL #1: OH WORKFORCE CAPACITY 2014

1,497 LICENSED DENTISTS IN NEBRASKA
1,350 LICENSED DENTAL HYGIENISTS
100 PUBLIC HEALTH HYGIENISTS
120 COMMUNITY HEALTH WORKERS
65 DENTAL SCHOOLS 4,500 GRADUATES
145 PER YEAR IN NEBRASKA
UNMC COLLEGE OF PUBLIC HEALTH

2012 OVER 1,450 LICENSED DENTISTS
2012 ONLY 1,030 WERE ACTIVE
50% WORK PART TIME
26% ARE APPROACHING RETIREMENT
GOAL #2: ENHANCED STATE DENTAL SURVEILLANCE

Nebraska 2015-16 Baseline OH Surveys

OH Needs Assessment

Planning Cycle

1. Collection of Information
2. Establish Long-term Goals
3. Specific Objectives
4. Strategic Planning
5. Implement Programs
6. Evaluation

State Oral Health Action Plan

STATES COLLECT BASIC SCREENING SURVEY DATA ON CHILDREN AND ELDERS 2005 NEB THIRD GRADE DENTAL SURVEY
60% HISTORY OF CARIES EXPERIENCE/17% ACTIVE DECAY/55% SEALANTS
2015-16 STATEWIDE HEAD START AND THIRD GRADE SURVEY
100 SITES, 6000 STUDENTS, OVERSAMPLE OMAHA AND WESTERN NEBRASKA

2015-2016 Nebraska Oral Health Survey of Young Children
CDC/ADA REPORT LOWER RATES 45% FOR ALL AGES

GOAL #3: INCREASE ACCESS TO PH CARE FOR VULNERABLE GROUPS

OVER 225,000 NEBRASKA MEDICAID/CHIP ENROLLED
150,000 CHILDREN UNDER AGE 18
NEED TO INCREASE EPSDT PREVENTIVE SERVICES
NEB MEDICAID HAS ADULT DENTAL BENEFITS
NEED TO INCREASE OLDER ADULT ACCESS TO CARE

COMMUNITY HEALTH CENTERS (FQHCs)
ALL HAVE CLINICAL DENTAL PROGRAMS

People’s Health Center Lincoln
One World South Omaha
Charles Drew North Omaha
Good Neighbor Columbus
Headland Grand Island
Hallowell Norfolk
CAPWN of Western Nebraska
GOAL #4: INCREASE COMMUNITY PREVENTION PROGRAMS

20 LPHDS 45% HAVE DENTAL PROGRAMS NOW THAT UTILIZE EVIDENCE-BASED PREVENTION SERVICES

NE COMMUNITY WATER FLUORIDATION
OVER ONE MILLION HAVE ACCESS
GI, HASTINGS, BEATRICE NO FLUORIDE
OOHD Funds Five OAYC Communities
Target is Low Income Age 0-5

OOHD FUNDS "ENDURING SMILES" PROJECT IN PARTNERSHIP WITH UNMC DENTAL COLLEGE

OVER 50 DENTAL HYGIENISTS TRAINED IN ELDER CARE
OVER 50 SENIOR CENTERS CARE GIVER SESSIONS
EDUCATIONAL CDS SENT TO OVER 300 FACILITIES
GOAL #5: PROMOTE DENTAL EDUCATION AND LITERACY
CONNECT ORAL TO TOTAL HEALTH
IMPROVE CULTURAL COMPETENCY
UTILIZE COMMUNITY HEALTH WORKERS

2015-2016 ADA Campaign
12,000 OH Kits to NE Head Start sites

2016-2017 Dental Starter Kits
10,000 Dental Starter Kits
NE Early Development Network
Early Head Start/Sequoya/N-MIECHV

DENTAL SAFETY NET SYSTEM

Creighton University
School of Dentistry

SHARING CLINIC NIGHTS
Children’s Dental Day
Panhandle Dental Days
Grand Island Extraction Clinics

Give Kids a Smile
Special Olympics Special Smiles
St. Francis Indian Mission
COMMUNITY CHARITY CLINICS

MISSION OF MERCY

PEOPLES CITY MISSION

OPEN DOOR MISSION

Value and Number of Patients Served by MOM in Nebraska

Cost of Care ($1000)  Number of Patient

Third City Community Clinic  903

Clinic with a Heart  1,788

Fred Leroy Health Clinic  1,393

HRSA ORAL HEALTH WORKFORCE GRANT
2016-2017

Nebraska one of eight states to be awarded
Two Year 500,000 Grant
Work with 7 Local Health Departments in HPSAs
Partner PH RDHs with CHWs
Form Community Dental Disease Prevention Teams
Utilize portable equipment to increase access to care
Increase educational/preventive services to young and old
Survey Nebraska Dental Hygienists
Epi. position to set up surveillance system framework

FUTURE VISION: TO HAVE ALL PARTS OF THE NEBRASKA DENTAL HEALTH SYSTEM (PRIVATE/PUBLIC AND CHARITY) COLLABORATE TO IMPROVE DENTAL HEALTH FOR ALL OF OUR STATE CITIZENS.
15 YEARS AFTER SG REPORT SOME STATES HAVE MADE PROGRESS BUT IT IS SLOW. "THE SCIENCE SAYS..... IF ALL WE DO IS PUT ON FLUORIDE AND SEALANTS IT WOULD MAKE A SIGNIFICANT DIFFERENCE IN REDUCING DENTAL DECAY. WE NEED TO GET THIS MESSAGE OUT TO THE PUBLIC AND LEGISLATURES SO PEOPLE CAN UNDERSTAND THAT" DAVID SATCHER MD 2015

"The test of our progress will not be whether we add more to the abundance of those who have much, it is whether we provide enough for those who have too little"
President Franklin D. Roosevelt 1937.