

# **The Illinois Oral Health Surveillance System (IOHSS)**

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# What is Surveillance?

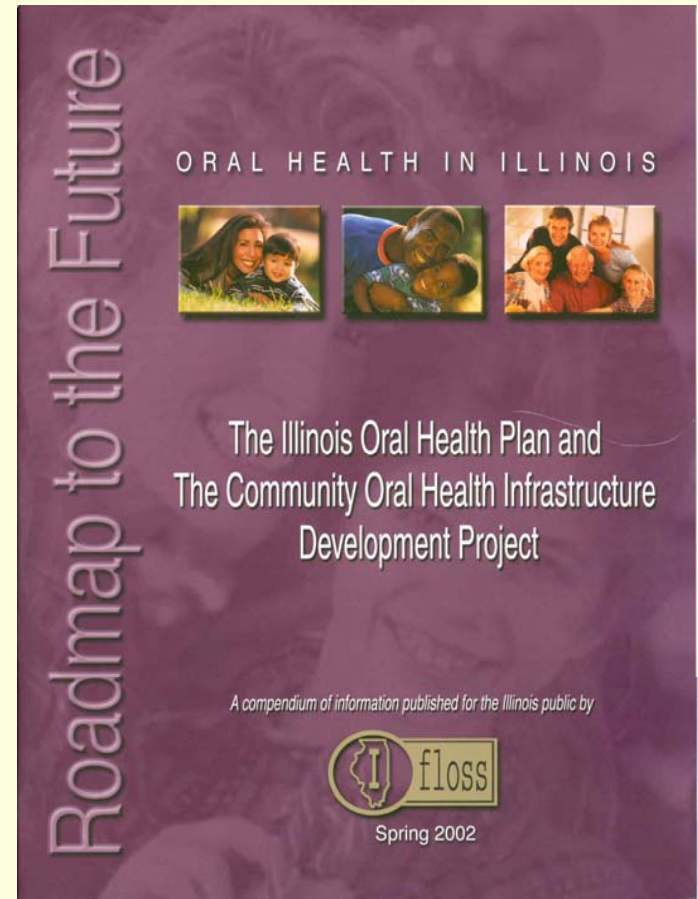
... the ongoing, systematic collection, analysis, interpretation, and dissemination of data regarding a health-related event for use in public health action to reduce morbidity and mortality and to improve health.

Public health surveillance system data are used for:  
**immediate public health action,**  
**program planning and evaluation, and**  
**formulating research hypotheses**

Three key aspects of a surveillance system:  
**data collection,**  
**timely dissemination of findings, and**  
**putting data to action**

# Why an Illinois specific oral health surveillance system?

- Policy Goal # 4 in Illinois Oral Health Plan
- Bring oral health issues to forefront
- Identify populations in need
- Track state and local trends
- Provide data for policy decisions
- CDC cooperative agreement



## IOHSS LOGIC MODEL

### INPUT

#### Staff Needed

Oral health epidemiologist  
Fluoridation data manager  
Program administrator  
IT support  
Data entry/ support staff

#### Data Sources

National, state & local level  
New Data collection to fill the gaps ( Workforce, BSS 3rd graders, Head Start, etc)

#### Equipment

Hardware/ software  
Optiform software  
SAS / SPSS / ACCESS

#### Other

Community support  
Funding  
Key Stakeholders/partners  
Memorandum of Agreements for data sharing

### ACTIVITIES

Regular advisory committee meetings  
Planning, implementation and enhancement of the IOHSS plan  
Development and maintenance of the IOHSS database  
Linking the existing data sources  
Networking with other agencies for collaborations  
Identification of data gaps  
Data analysis and interpretation  
Routine dissemination of surveillance reports at the state and national level  
Quality assurance methods to assure data accuracy  
Data security and confidentiality  
Strategies for sustaining the IOHSS  
Maintenance of the IFRS  
Maintain linkage to WFRS  
Evaluate surveillance system and its reporting system

### INTERMEDIATE OUTCOMES

Ongoing monitoring of trends in oral health in Illinois  
Increase in evidence -based interventions, planning and evaluation  
Increase in programs for populations most in need

### DISTAL OUTCOMES

Documentation of changes in oral health indicators  
Improved oral health in Illinois

# IOHSS Advisory Committee

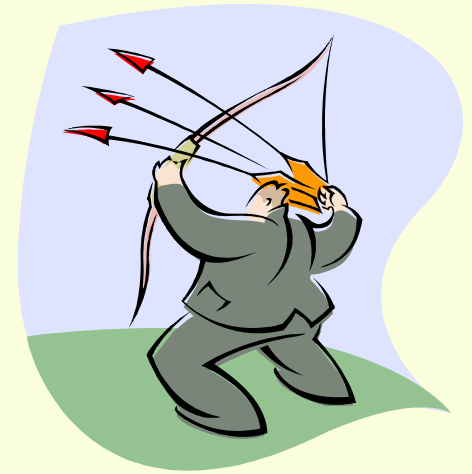
- Illinois Dental and Dental Hygiene Schools
- Illinois Department of Healthcare and Family Services (IDHFS)
- Behavioral Risk Factor Surveillance System (BRFSS)
- Pregnancy Risk Assessment Monitoring System (PRAMS)
- Illinois State Cancer Registry
- Dental and Dental Hygiene Associations
- Local Health Departments
- IFLOSS Coalition
- Illinois Fluoridation Reporting System (IFRS)

# IOHSS Goal



To monitor Illinois specific, population-based oral disease burden and trends, measure changes in oral health program capacity, and monitor and report community water fluoridation quality.

# IOHSS Objectives



- A central repository of oral health data
- Primary & secondary data collection
- Identify gaps in the data
- Analyze/interpret data
- Ensure the quality of the data
- Surveillance reports / burden document
- Share findings and tell stories
- Feed data into national surveillance efforts

# IOHSS Indicators by Data Source

## **Behavioral Risk Factor Surveillance System**

% adults:

dental visit in the past year

number of lost permanent teeth

teeth cleaning within the past year

% dentate adults with diabetes with dental visit in past year

## **Pregnancy Risk Assessment and Monitoring System**

% pregnant women:

needed to see a dentist for a problem

had dental/health care worker speak gums & teeth care

visited dentist or dental clinic

## **Illinois State Cancer Registry**

oral and pharyngeal cancer death rate

% of oral and pharyngeal cancers detected at the earliest stages

% age 40+, oral and pharyngeal cancer exam in past 12 months



## IOHSS Indicators by Data Source (Cont.)

### **Illinois Department of Healthcare and Family Services**

% children using preventive and restorative dental services

# children enrolled:

Title XIX Medicaid for at least one month of the year

Title XXI SCHIP for at least one month of the year

% adults (18-65 & 65+years) with dental visits

# dentists:

Medicaid providers

at least one paid claim

with paid claims > \$10,000

### **Illinois Department of Financial & Professional Regulation**

# licensed dentists and dental hygienists by county

# IOHSS Indicators by Data Source (Cont. )

## **Illinois Department of Public Health, Division of Oral Health**

# sealants provided through Dental Sealant Grant Program

# of counties with an Oral Health Needs Assessment

# of newborns with craniofacial anomaly referred by Craniofacial Anomaly Program

# of Safety Net Clinics in Illinois by county

## **Illinois Fluoridation Reporting System (IFRS)**

% people served by public water systems who receive fluoridated water

% community water systems in compliance with community water fluoridation standards

## **Statewide 3rd Grade Basic Screening Survey**

% children:

    caries experience

    untreated decay

    sealants

# IOHSS Data Flow-Chart

## Division of Oral Health Data

Dental Sealant  
Grant Program

Oral Health  
Needs  
Assessment  
Program  
(OHNAP)

Safety Net  
Clinics  
Craniofacial  
Anomaly  
Program

**Surveys**  
BSS 3rd  
Graders  
Workforce  
Fluoride  
HeadStart

Fluoridation  
IFRS  
PWWTP

## External Data

BRFSS; PRAMS; IDHFS  
(Medicaid); Cancer Registry  
IDFPR; ISBE; IEPA; DDS & RDH  
Schools; Vital Statistics; Center for  
Rural Health (HPSA  
Designations); Head Start  
Agencies; Tobacco Cessation  
Program, CMS 416

## The Illinois Oral Health Surveillance System

National Oral Health Surveillance System, IPLAN,  
ASTDD State Synopsis, MCH Block Grant, Surveillance  
Reports/Burden Document, State Oral Health Plan,  
Community Grant Applications, OHNAP, IFRS, Fluoride  
Annual Reports



# IOHSS Evaluation Tool

IOHSS Stage	Evaluation Question /Activity	Evaluation Impact
<b>Planning</b>	<ul style="list-style-type: none"> <li>What data sets exist?</li> <li>Who are the potential partners?</li> <li>Where are the data gaps?</li> <li>Sources of financial support, stakeholders</li> <li>Survey / Email other departments, states and CDC to learn potential partners</li> <li>CDC guideline to evaluate the system - data validity, integrity, completeness, timeliness</li> </ul>	<ul style="list-style-type: none"> <li>Understanding the strengths and weaknesses of IOHSS</li> <li>Assure data validity</li> <li>Identify gaps</li> <li>Identify potential partners</li> <li>Plan for financial resources</li> </ul>
<b>Implementation</b>	<ul style="list-style-type: none"> <li>Does IOHSS have sufficient IT support, security check, solid surveillance plan and sustainability plan?</li> <li>Awareness of IOHSS among partners and stakeholders</li> <li>Identify new partners and stakeholders</li> <li>Use CDC guideline to evaluate the system</li> <li>Usefulness of IOHSS among key stakeholders and community</li> </ul>	<ul style="list-style-type: none"> <li>Were people able to use the data collected</li> <li>Awareness of IOHSS</li> <li>Find out our potential financial supporters</li> <li>Are we satisfying our partners/stakeholders for data needs?</li> <li>Help develop marketing strategies</li> </ul>
<b>Maintenance</b>	<ul style="list-style-type: none"> <li>Evaluate the reach of the information, timeliness of the analysis and dissemination of the reports</li> <li>Evaluate the policy and legislative actions taken due to the system by tracking the environment</li> <li>Evaluate the sustainability of IOHSS</li> </ul>	<ul style="list-style-type: none"> <li>Helps to understand the success of IOHSS</li> <li>Increases the system's efficiency</li> <li>Helps develop policies and legislative actions</li> <li>Can promote sustainability</li> </ul>

**Thank you**

Questions?

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