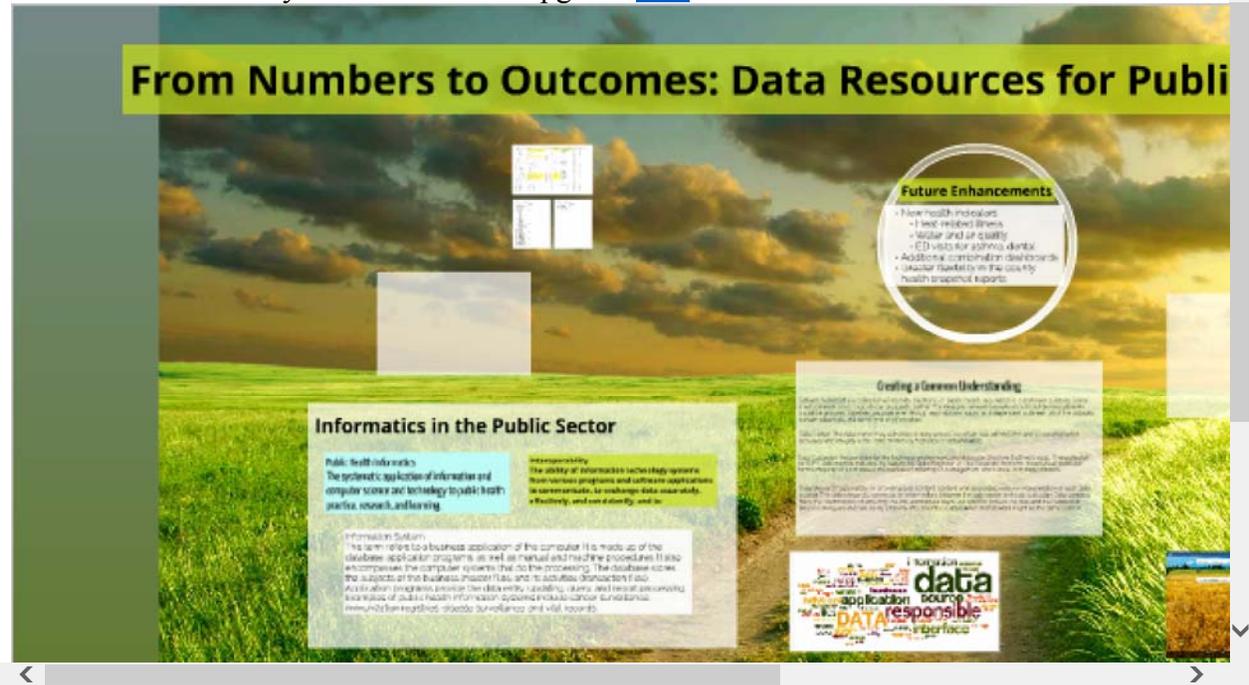


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# Numbers to Outcomes: Data Resources for Public Health- Healthcare Integration

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by [Meg Harris](#) on 18 November 2013 • 23

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## Transcript of Numbers to Outcomes: Data Resources for Public Health- Healthcare Integration

### From Numbers to Outcomes: Data Resources for Public Health Creating a Common Understanding

Dataset: A dataset is a collection of records, electronic or paper-based, organized for a particular purpose. Some small datasets could logically be grouped together. For example, several datasets about food-borne outbreaks could be grouped together because, even though each dataset tracks an independent outbreak, all of the datasets contain essentially the same kind of information.

#### Making the Transition

What system changes are needed for public health agencies to meet effectively the information needs of its community partners?

How do we keep pace with the growing demands to electronically exchange information with physicians, hospitals, and other public health agencies?

And how do we, within the public health agency, ensure we are maximally collecting and utilizing data to provide our best community service?

Iowa Department of Public Health

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From Numbers to Outcomes: Data Resources...



Iowa Public Health Tracking



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IRIS

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Stellar

Trauma

Registry

Newborn

screening

Birth

Registry

Death

Registry

EHDI

IRCID

I-Smart

CAREWare

Brain, Spinal,

Farm Injury

PRAMS

PNSS

SHR/SEER

WHIS

e-HARS

HIV/AIDS

CFY

EMS Patient

Registry

IWIN

Birth

Death

Behavioral Risk Factor Surveillance

System (BRFSS)

Census

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Birth Death BRFSS  
SID Census  
What we have in the Public Health  
Tracking Portal

### **Public Health Informatics**

**The systematic application of information and computer science and technology to public health practice, research, and learning.**

#### Information System

This term refers to a business application of the computer. It is made up of the database, application programs, as well as manual and machine procedures. It also encompasses the computer systems that do the processing. The database stores the subjects of the business (master files) and its activities (transaction files). Application programs provide the data entry, updating, query, and report processing. Examples of public health information systems include cancer surveillance, immunization registries, disease surveillance, and vital records.

#### Interoperability

The ability of information technology systems from various programs and software applications to communicate, to exchange data accurately, effectively, and consistently, and to "Let the dataset

change your  
mindset  
."- Hans Rosling

U.N. sued for "bringing cholera to  
Haiti," causing outbreak that killed  
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Office of the National Coordinator for  
Health Information Technology

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# Public Health Tracking

IDSS

CDR

Stellar

Newborn screening

e-HARS  
HIV/AIDS

I-Smart

PNSS

EMS Patient  
Registry

CAREWare

CAReS

Inpatient  
Outpatient  
Database

EHDI

Brain, Spinal,  
Farm Injury

Trauma  
Registry

Birth  
Registry

IWIN

Child Death  
Registry

Registry

SHR/SEER

IRCID

CFY

WHIS

Iowa Health  
Information  
Network

# What we have in the Public Health Tracking Portal

Birth Death BRFSS

Water Quality

SID Census

Poverty

Housing

Air Quality

Child Blood Lead

Cancer

Birth Defects

Birth

Death

Statewide inpatient  
database (SID)

Behavioral Risk Factor  
Surveillance System  
(BRFSS)

Census

## What we had in the warehouse



- IDPD Home
- Environment
- Health Effects
- How Do I?
- Training
- Glossary
- Login

Search for Environmental or Health Issue

All Metadata



# Future Enhancements

- New health indicators
  - Heat-related illness
  - Water and air quality
  - ED visits for asthma, dental
- Additional combination dashboards
- Greater flexibility in the county health snapshot reports

## Making the Transition

Information Consumer



Information Broker

What system changes are needed for public health agencies to meet effectively the information needs of its community partners?

How do we keep pace with the growing demands to electronically exchange information with physicians, hospitals, and other public health agencies?

And how do we, within the public health agency, ensure we are maximally collecting and utilizing data to provide our best community service?

# Iowa Department of Public Health Data Management

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