The Transformation of Health and Health Care The Role of the NHII John Lumpkin, M.D., M.P.H., Senior Vice President,

Director of Health Care Group Robert Wood Johnson Foundation

June 10, 2003

IOM Panel Reports

November 2002

 "The American health care system is confronting a crisis."

 "The health care delivery system is incapable of meeting the present, let alone the future, needs of the American public." GEORGE CLOONEY

WAHLBERG

In the Fall of 1991, the Andrea Gail left Gloucester, Mass. and headed for the fishing grounds

of the North Atlantic.

Two weeks later, an event took place that had never occurred in recorded history.

A WOLFLANG PETERSON.

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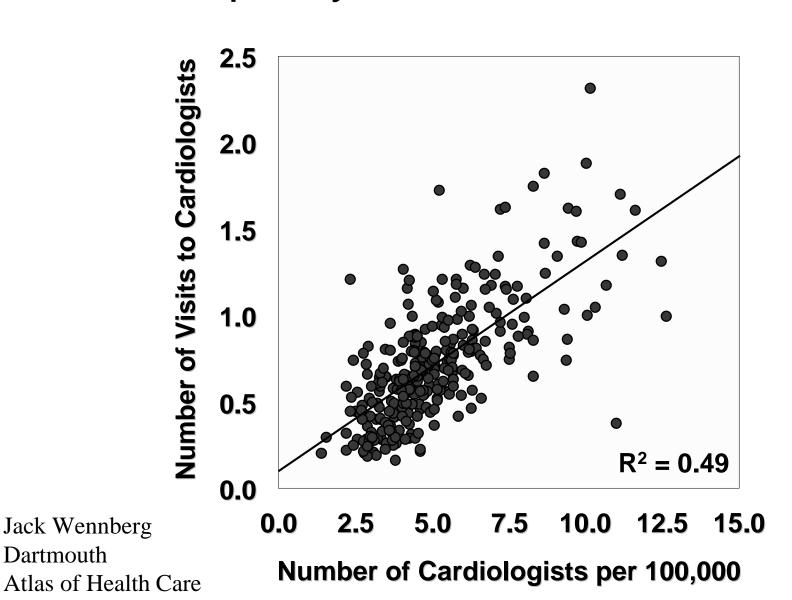




"Perfect Storm" Forming Around Health and Health Care

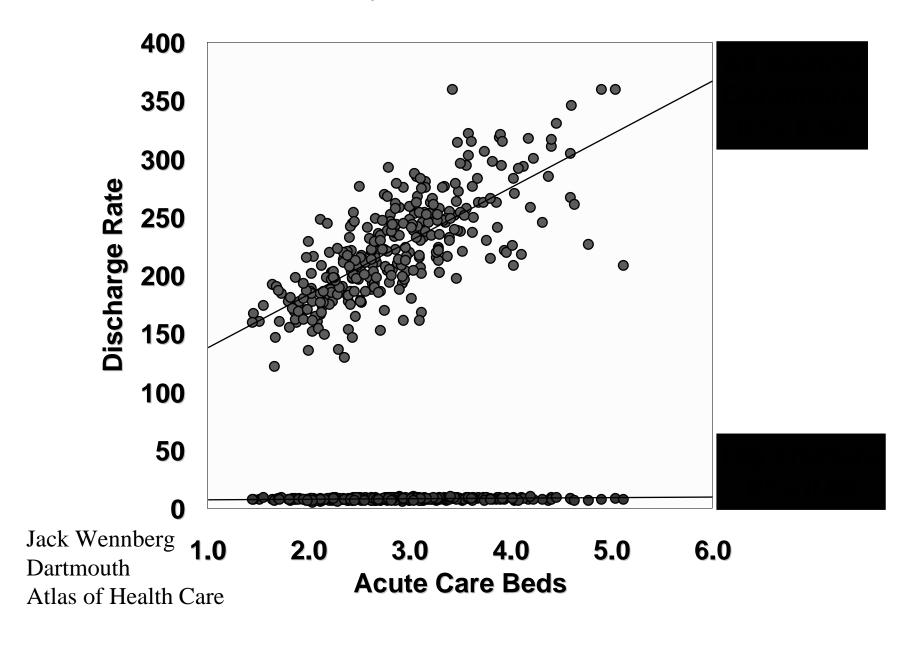
- 41 Million + Uninsured in America
- Health Care Costs Rapidly Rising
- Those Covered Paying More for Their Coverage and More Out-of-Pocket
- State Budget Crises Threatening Coverage
- Quality is not a given
- Public Health System is Stressed
- Seeking Health Information is a Major Internet Task

Capacity Determines Need?

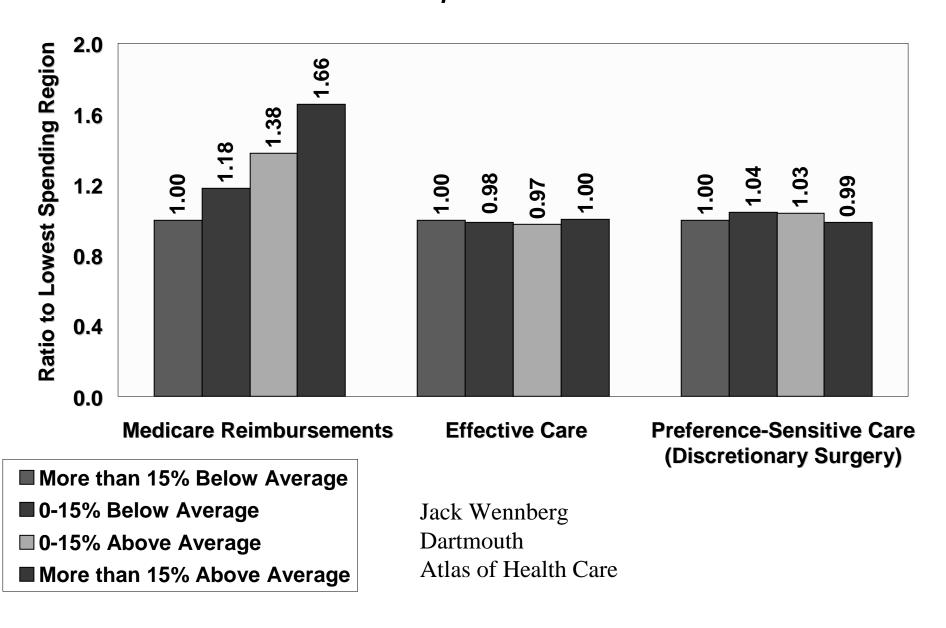


Dartmouth

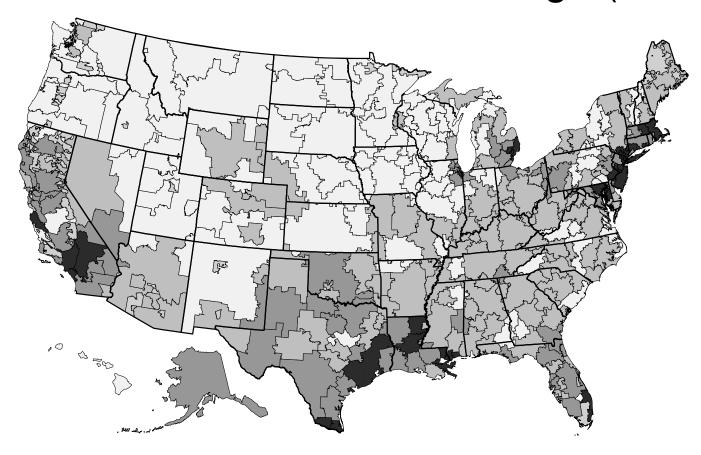
Capacity Determines Need?



What does Greater Per Capita Spending BUY? not more effective or preference sensitive care



Medicare Reimbursements (Part A and B) in Relation to the National Average (2000)



Jack Wennberg
Dartmouth
Atlas of Health Care



- 0 15% Above Average (68)
- 0 15% Below Average (112)
- More than 15% Below Average (90)
- Not Populated

Quality of Health Care in US??

Overall Care 54.9%

Preventive 54.9%

• Acute 53.4%

• Chronic 56.1%

• History 43.4%

Counseling or Ed 18.3%

• Immunization 65.7%

The focus must shift from blaming individuals for past errors to a focus on preventing future errors by designing safety into the system

To Err is Human

- Institute of Medicine

Back Surgery per 1,000 Medicare Enrollees on a Race-Specific Basis (1999-2000)

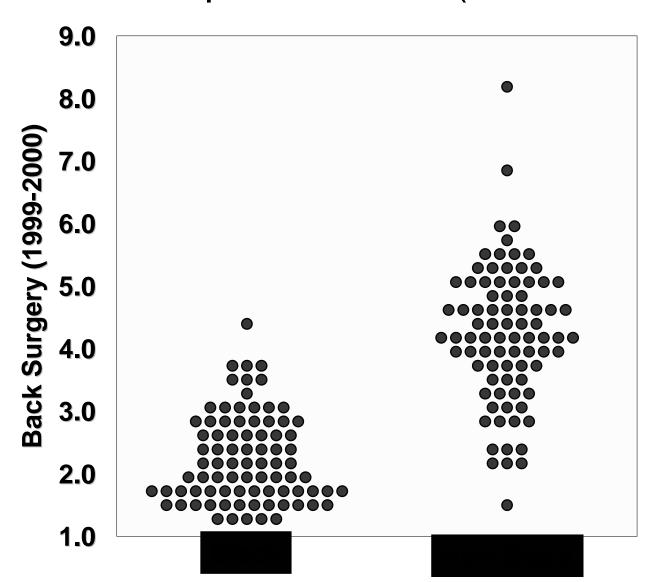
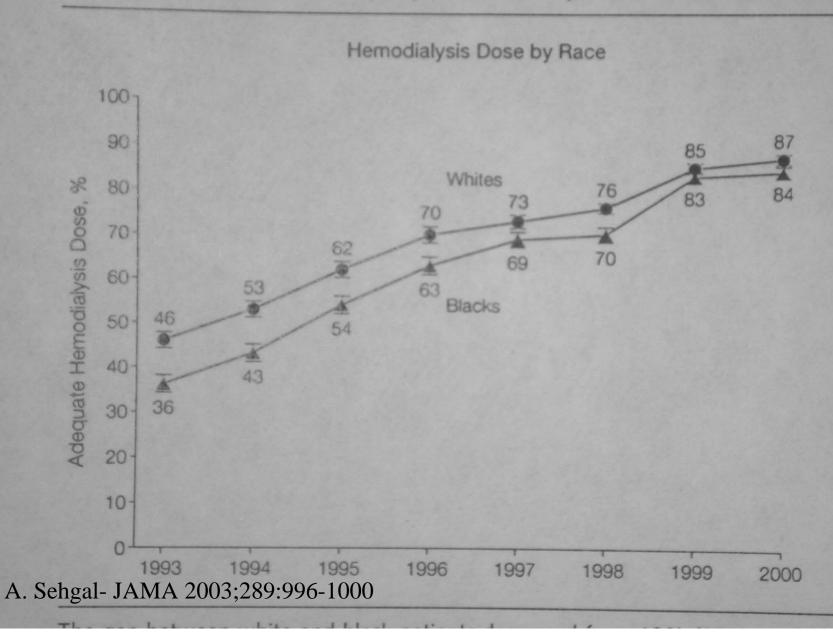


Figure 1. Changes in Adequacy of Hemodialysis Dose, 1993-2000



Current practice depends upon the clinical decision-making capacity and reliability of autonomous individual practitioners, for classes of problems that routinely exceeds the bounds of unaided human cognition

Daniel R. Masys, M.D. 2001 IOM Annual Meeting

Cover The Uninsured Week • March 10-16

Her mom gets cancer.

They find the tumor early.

Her mom is OK.

Her mom gets cancer.
She's diagnosed too late.
Her mom is gone.

When you're u in the differently.

There are 41 million Americans with no health insurance.

March 10-16 is Cover The Uninsured Week in your community. Get involved—and help get America covered.

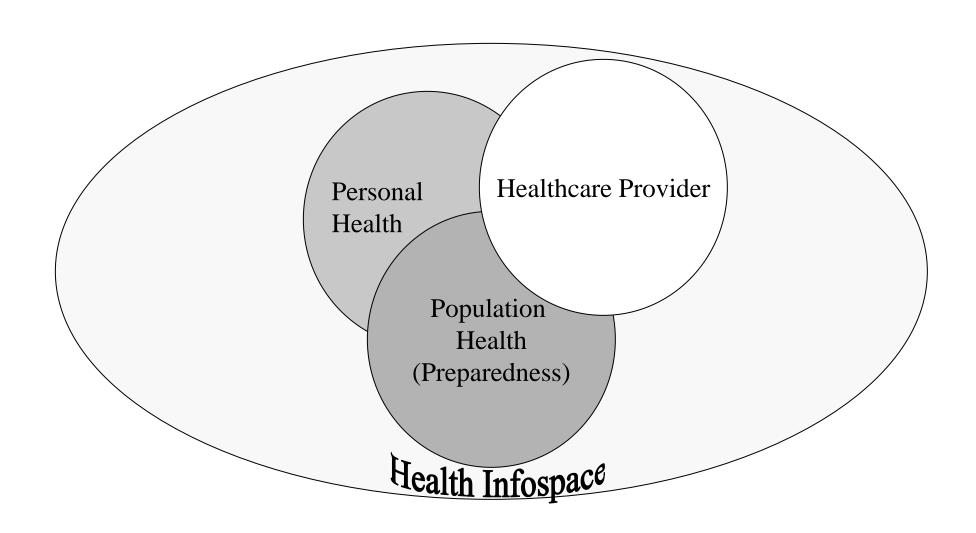


U.S. Chamber of Commerce • AFL-CIO • The Business Roundtable • Service Employees International Union • Healthcare Leadership Council • AFSCME • American Medical Association American Nurses Association • Health Insurance Association of America • Families USA Blue Cross and Blue Shield Association • American Hospital Association • Federation of American Hospitals • Catholic Health Association of the United States • AARP • United Way of America The Colifornia Endowment • W. K. Kellogg Foundation • The Robert Wood Johnson Foundation

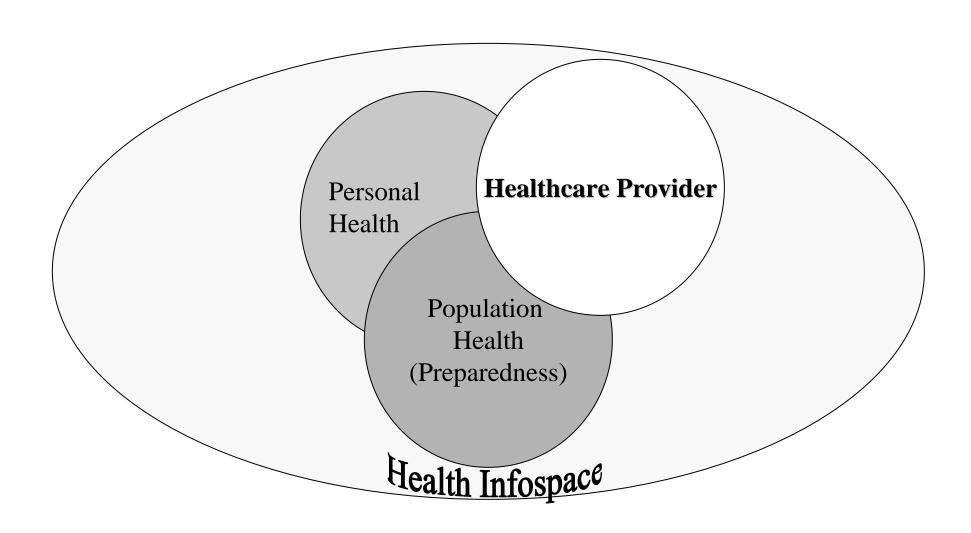
"We have wonderful technology, but some grocery stores have better technology than our hospitals and clinics."

Secretary Tommy Thompson Chicago Medical School Commencement June 7, 2002 We stand on the "tipping point" of the rapid enhancement of the health care system into a high quality, efficient and effective system. Automation of information systems is the transforming technology

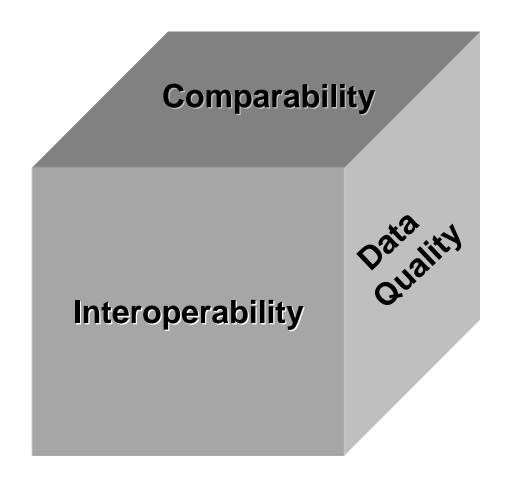
NHII



NHII



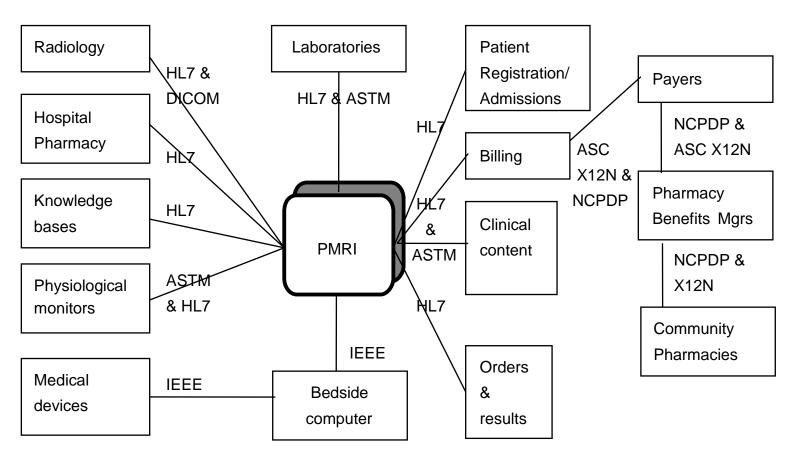
Framework for PMRI Standards



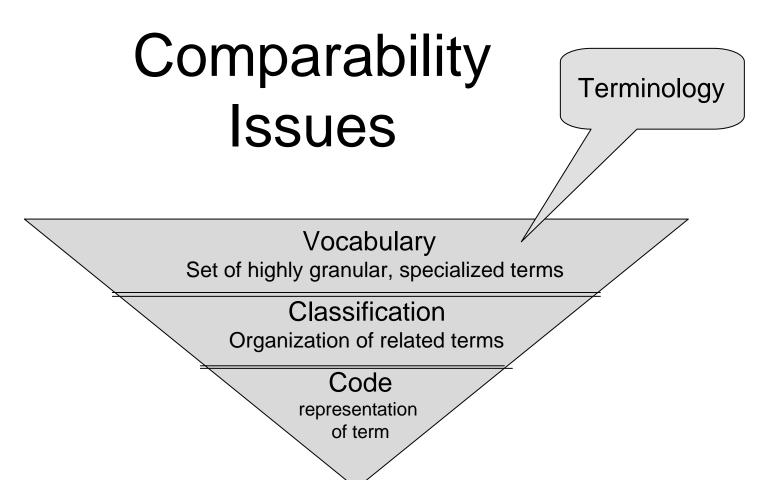


We're stuck on an interoperable definition of interoperability

Interoperability Status

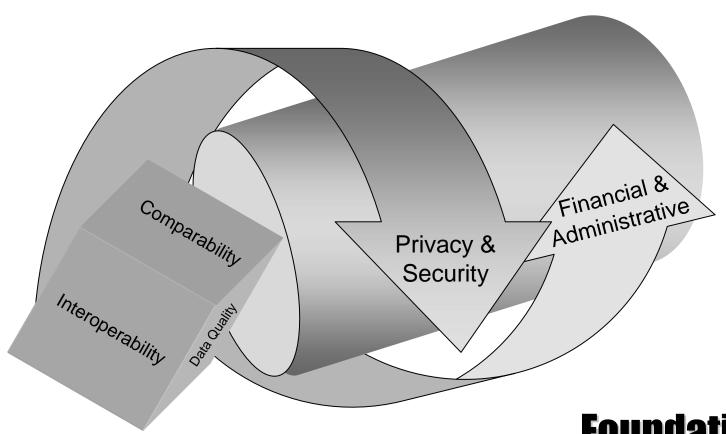


(Adapted from Electronic Health Records: Changing the Vision, Eds. GF Murphy, MA Hanken, and KA Waters. Philadelphia: W. B. Saunders Company, 1999)



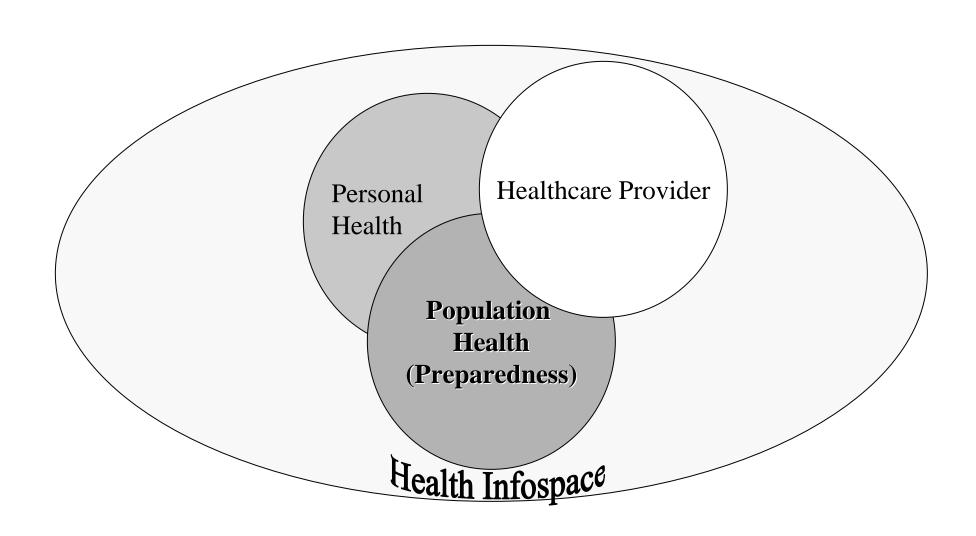
• Comparability requires that the meaning of data is consistent when shared among different parties

The Health Informatics Pipeline

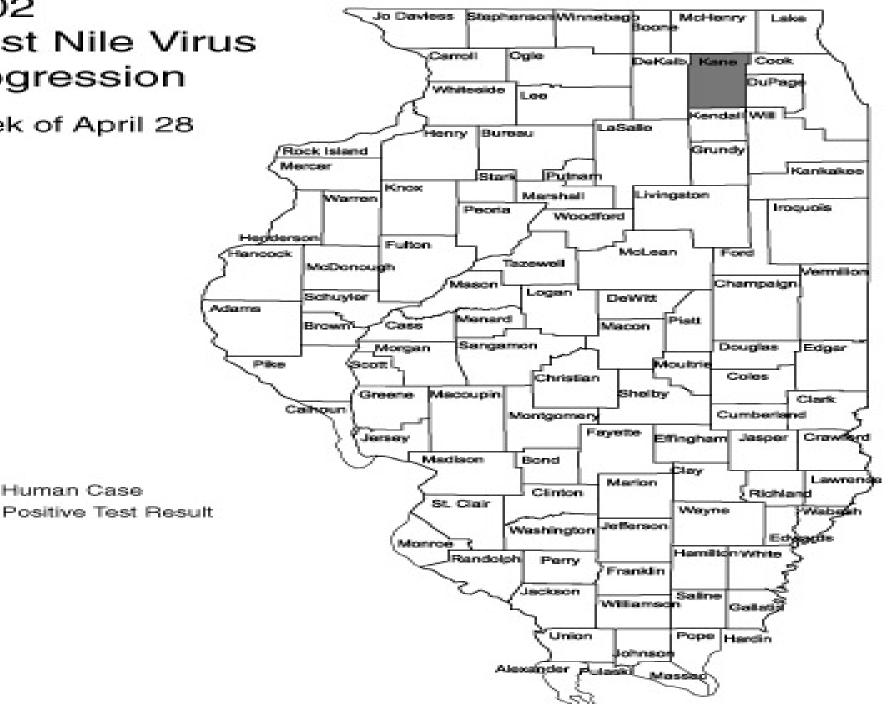


Foundation HIPAA Standards

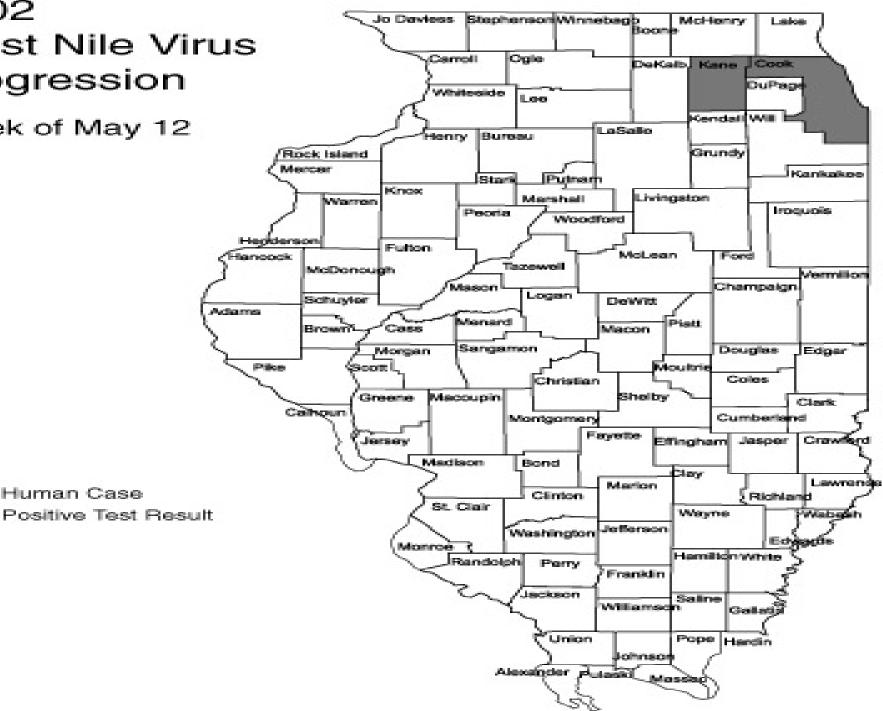
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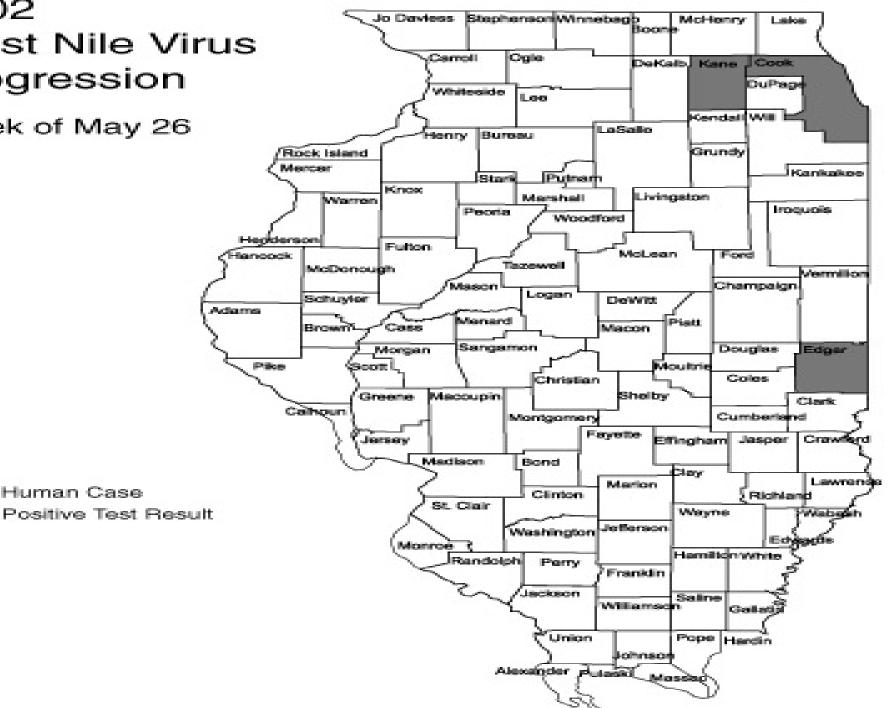
Week of April 28



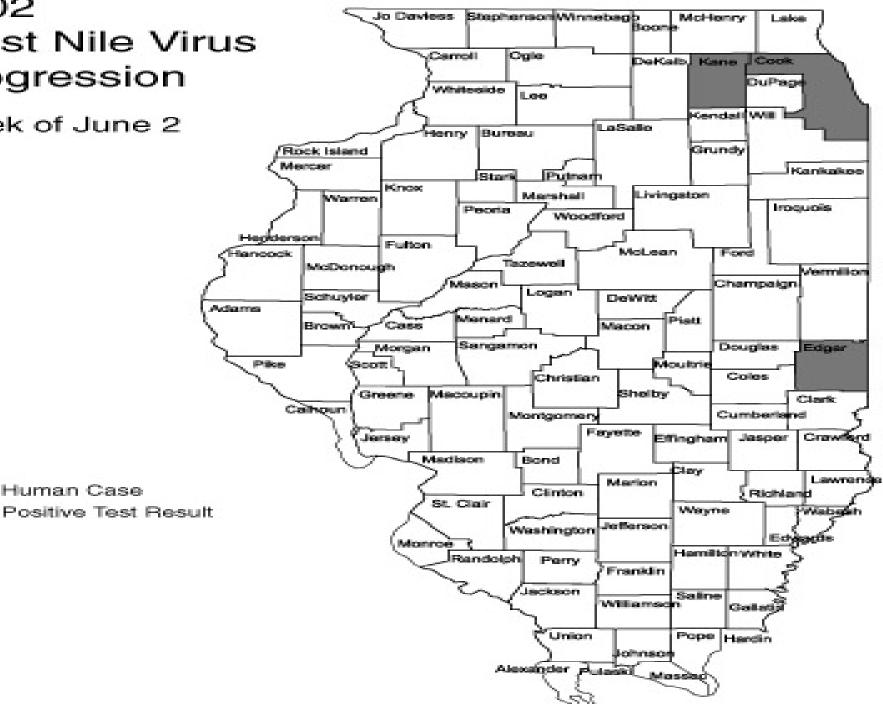
Week of May 12



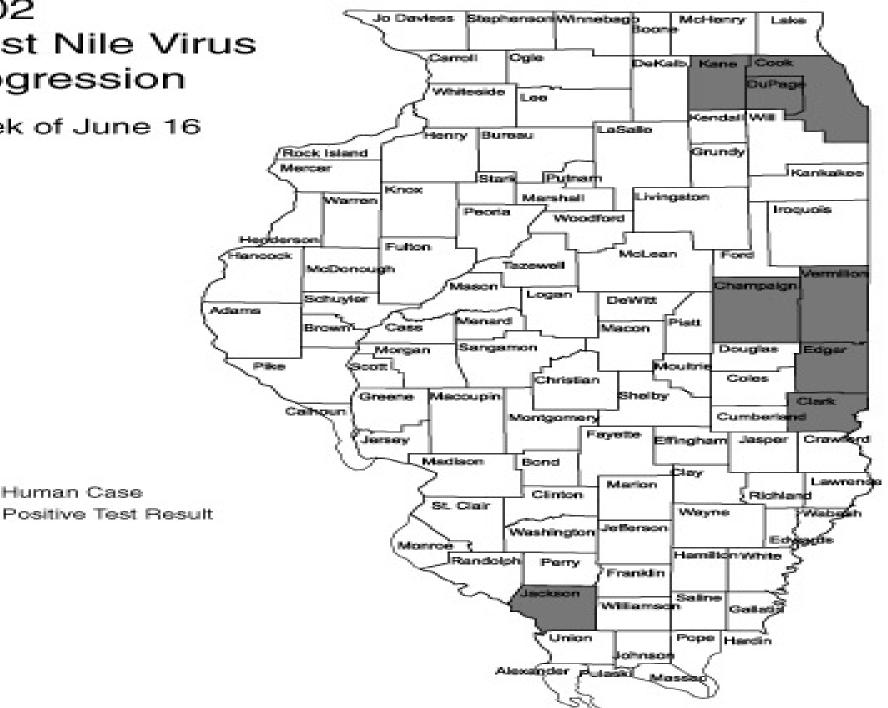
Week of May 26



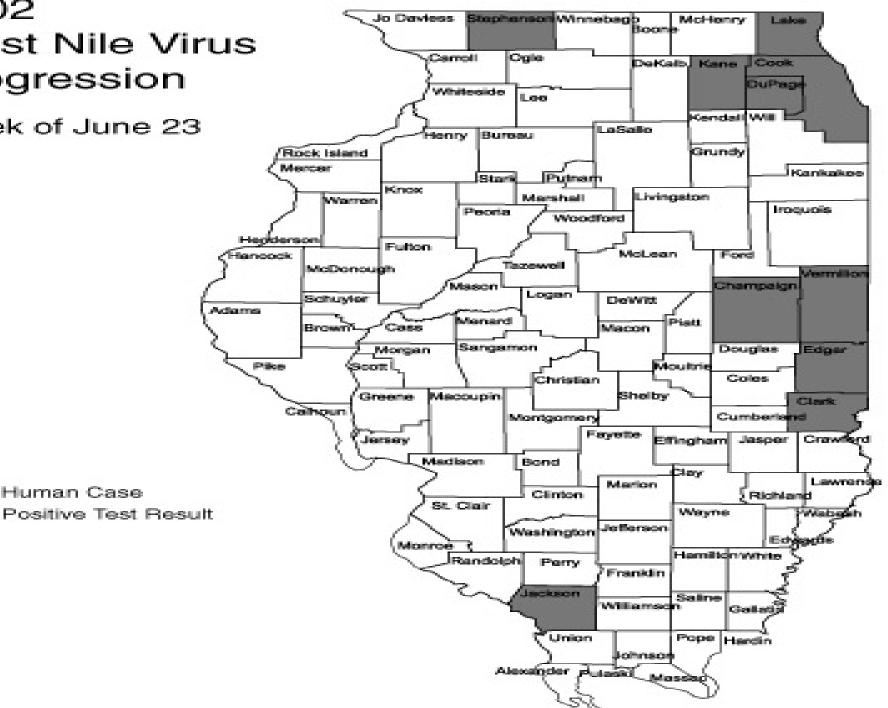
Week of June 2



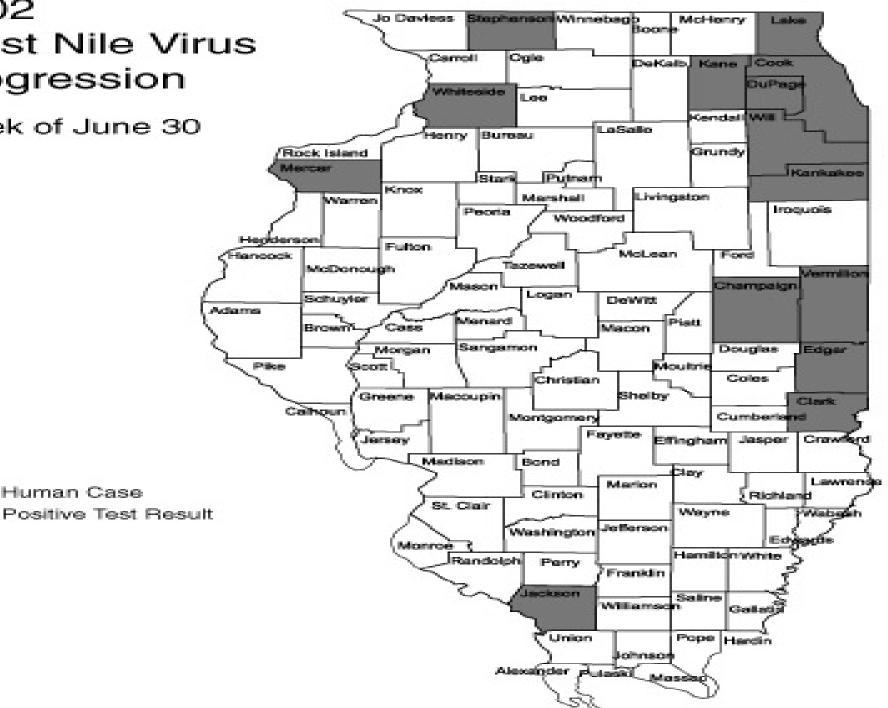
Week of June 16



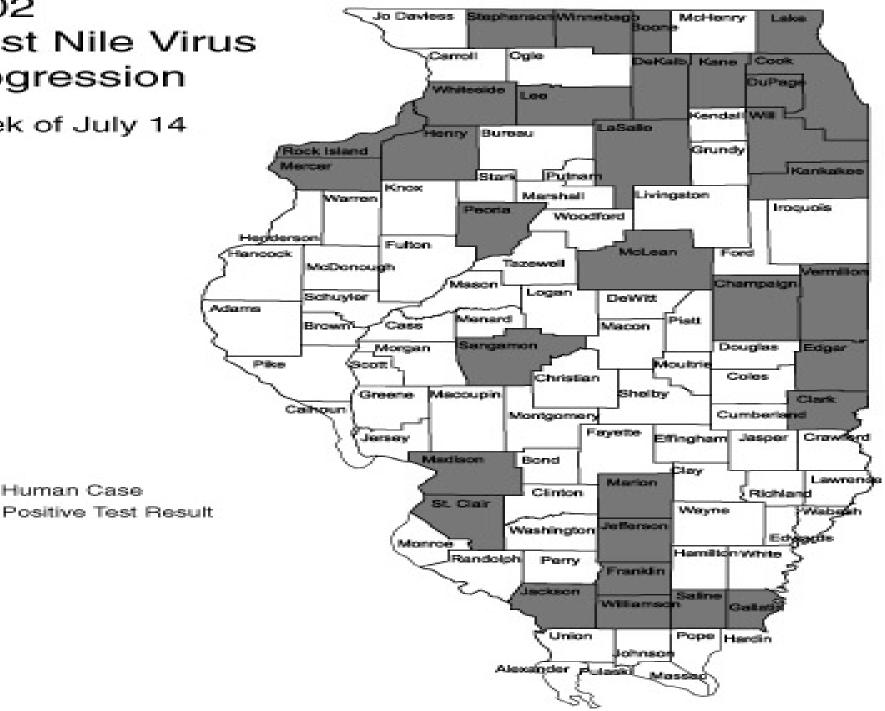
Week of June 23



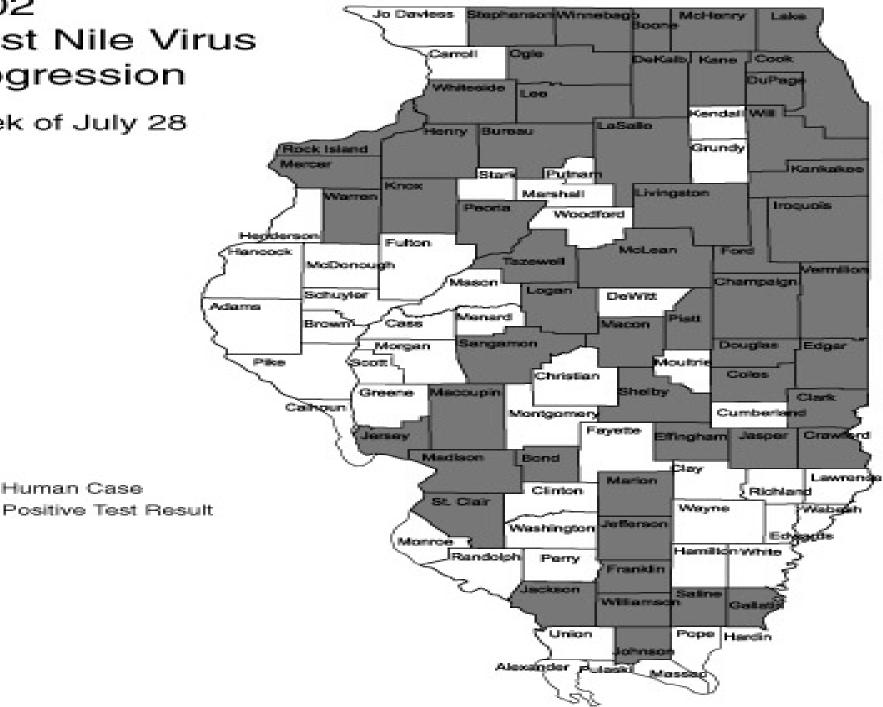
Week of June 30



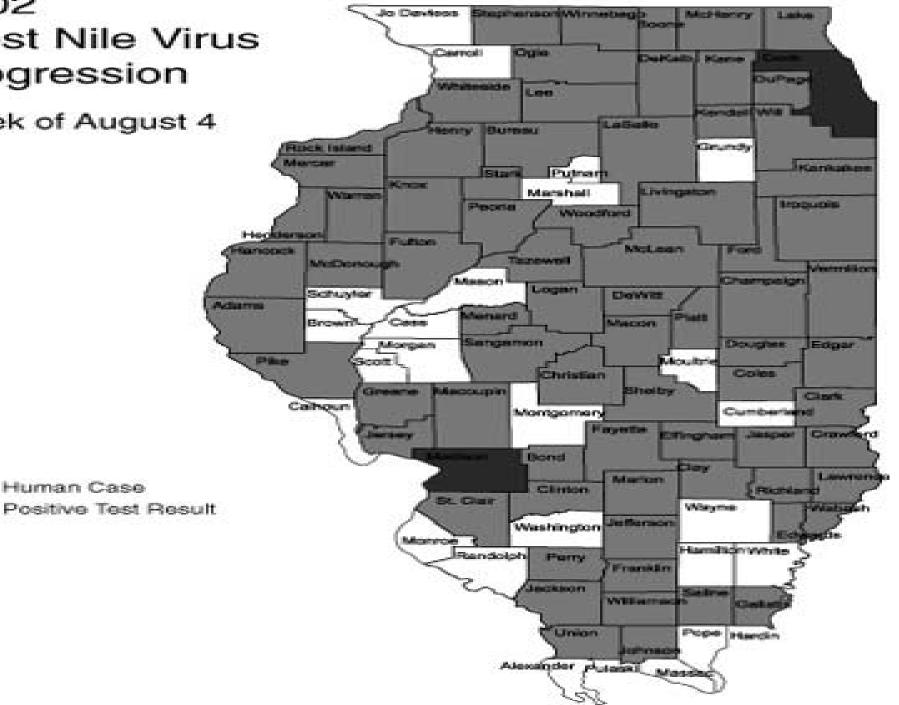
Week of July 14



Week of July 28



Week of August 4



2002 Jo Daviess Stephenson-Winnebegb McHenry. Later West Nile Virus Ogle Progression Whiteside Loo Cendall Week of August 18 LaSalin Bureau Rock Island Cirundy Kankakee Putnami Kirvoss Mershell Livingston Warmen Peorla Iroquois: Woodford Hegidenson **Fulton** McLean Fore Texpowoll McDonough Vermillor Mason Champelon Logan Schuyler DeWitt Adams Menerd Brown Copps Maccon Morgan Douglas. Edger Piles Moultrie Scottill Colos Christian Greene. Macoupin Shelby Ciliantic. Calhour Montgomery Cumberland Fayette Jersey Effingham Jasper Crawford Bond Charge Lawrens Martion Human Case Clinton St. Clair Positive Test Result. Wayne Western to Washington Jefferson Monroe (Hamilton White Randolph Perry Franklin

Jackson

Alexander plate

Union

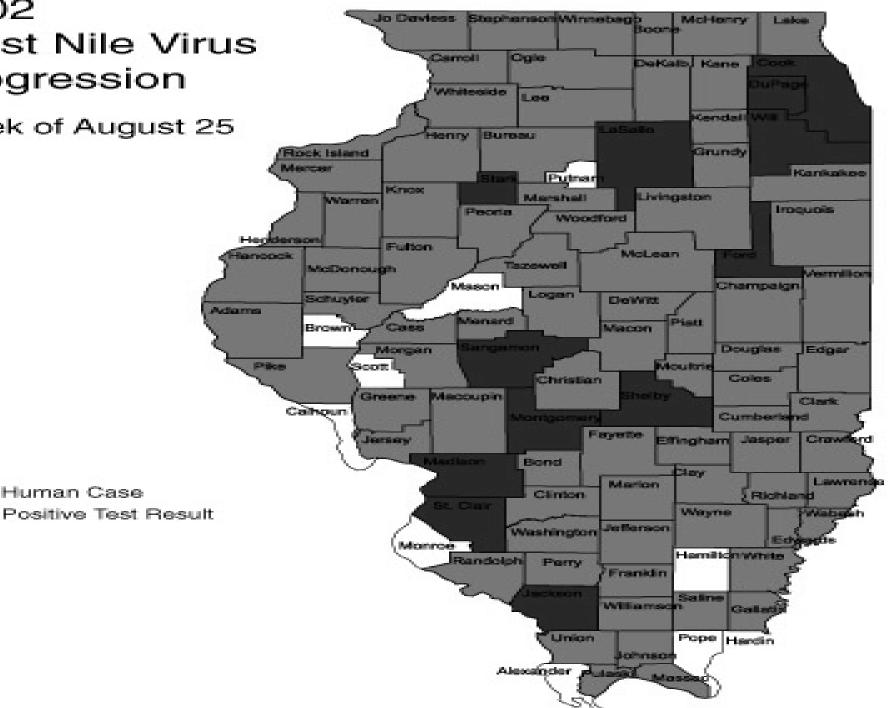
Saline

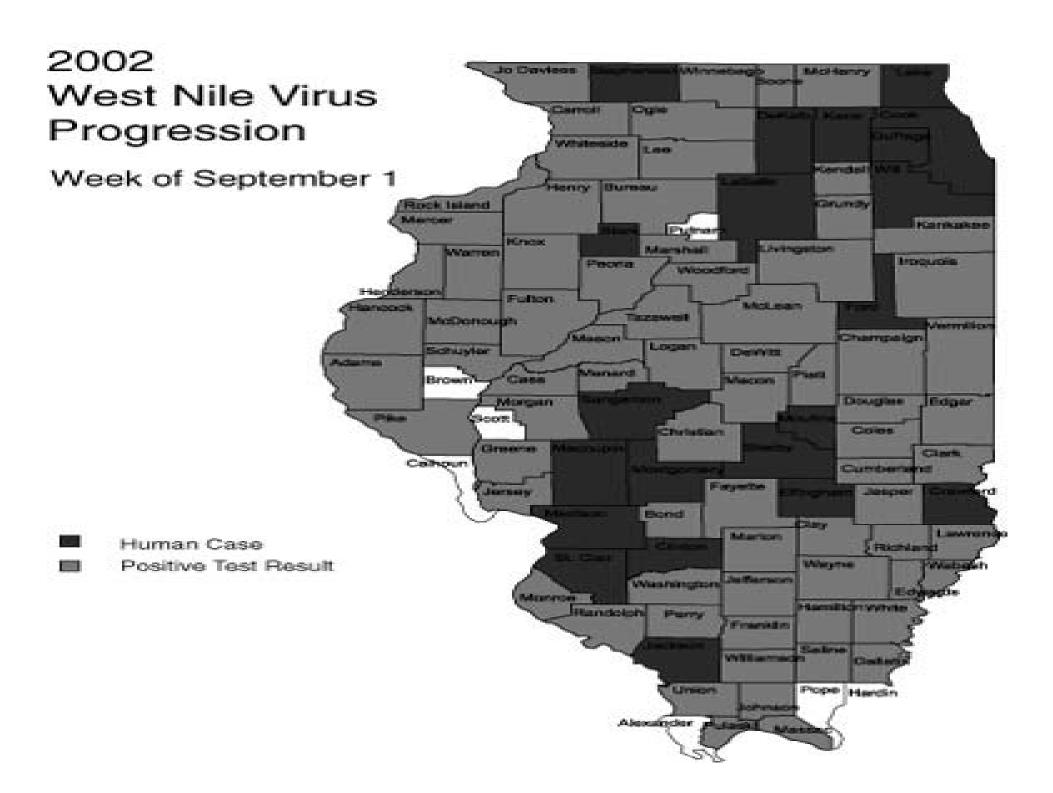
Pope Hardin

Williamso

Johnson

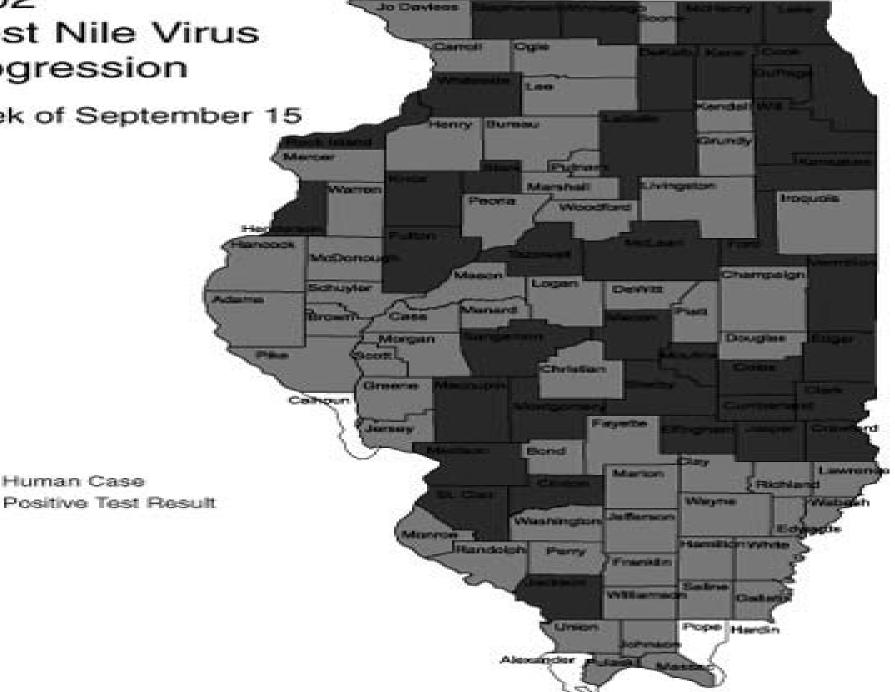
Week of August 25





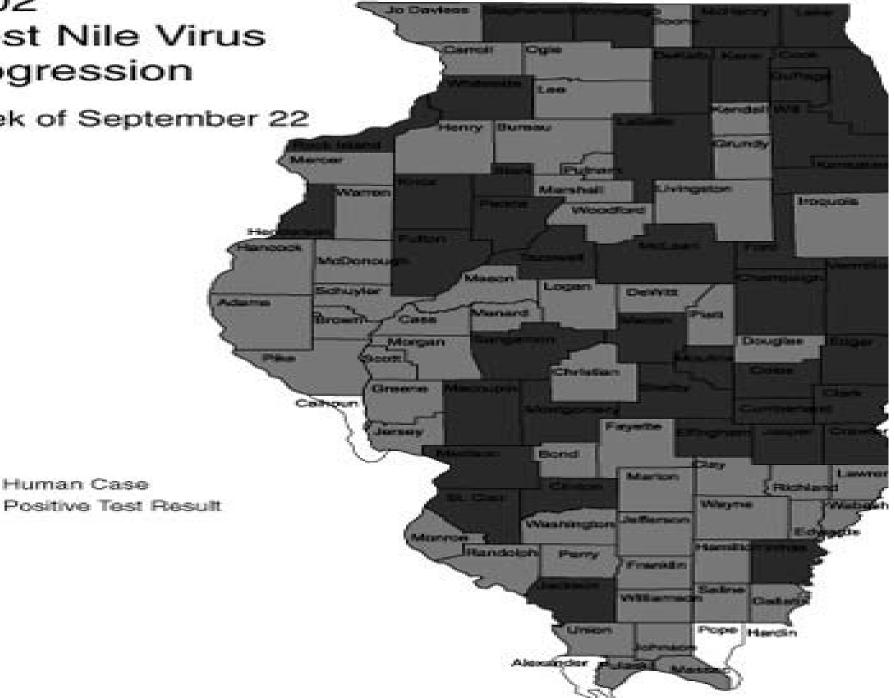
Human Case

Week of September 15



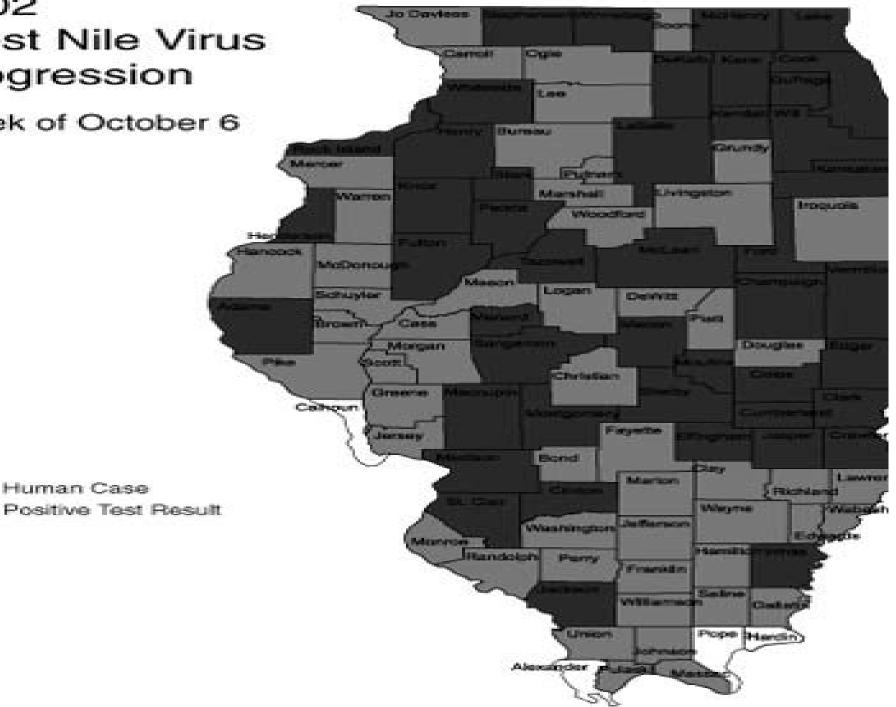
Human Case

Week of September 22



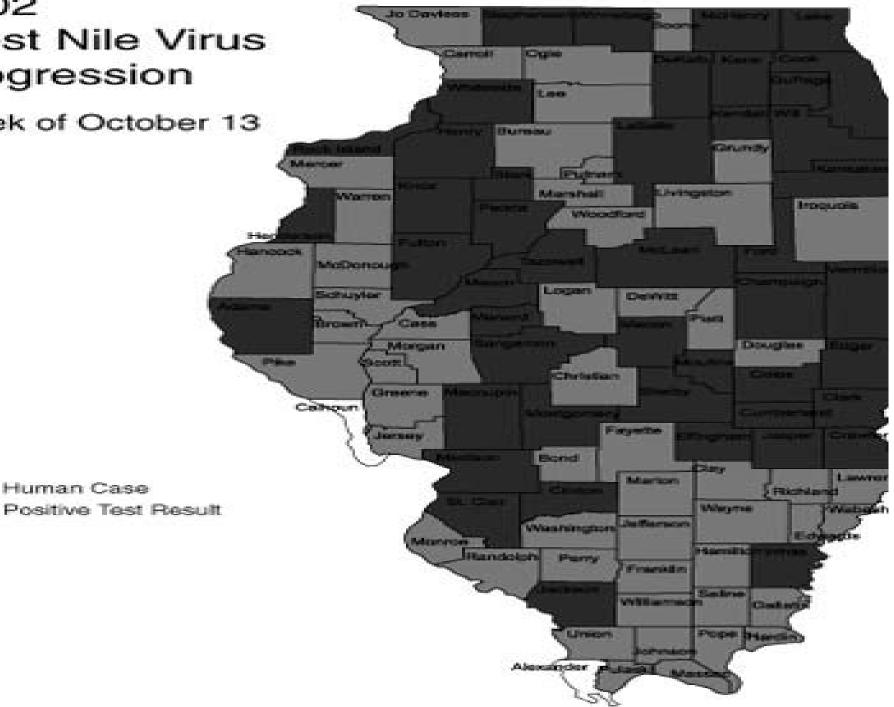
Week of October 6

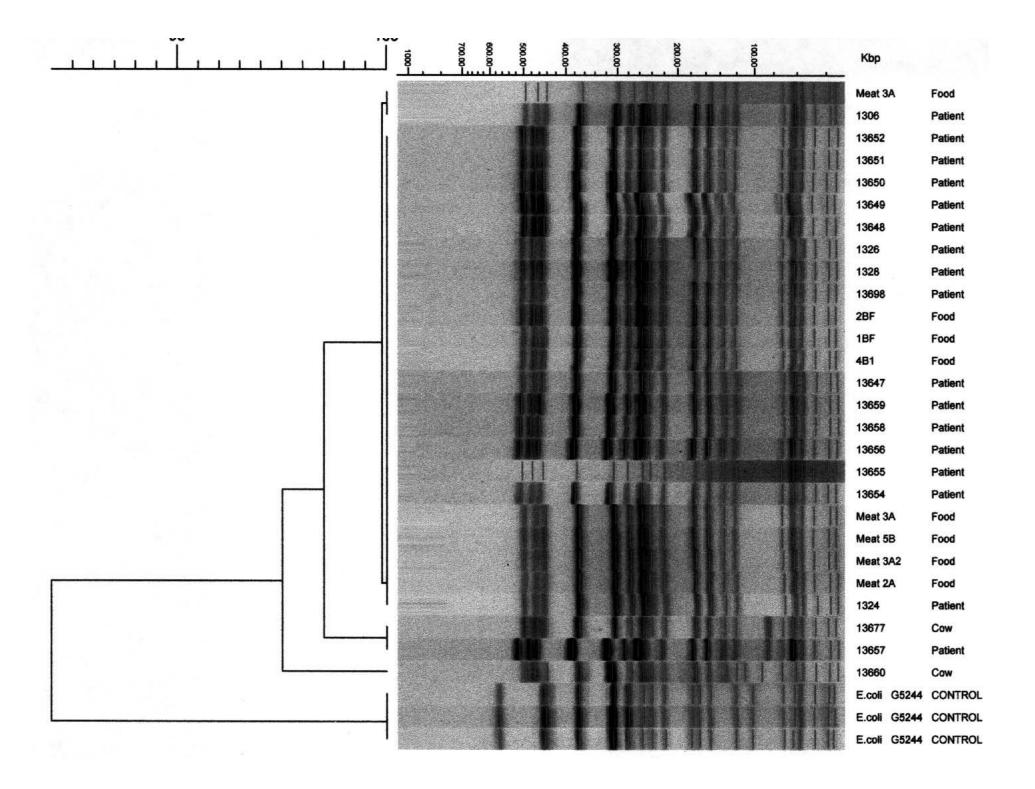
Human Case



Week of October 13

Human Case





ILLINOIS HEALTH NEWS

"THE GREATEST WEALTH OF THE COMMONWEALTH IS HEALTH"

STATE DEPARTMENT OF PUBLIC HEALTH

OFFICIAL MONTHLY BULLETIN

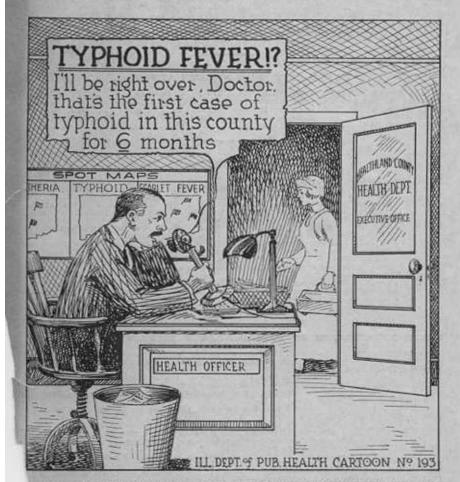
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Vol. IX, No. 12

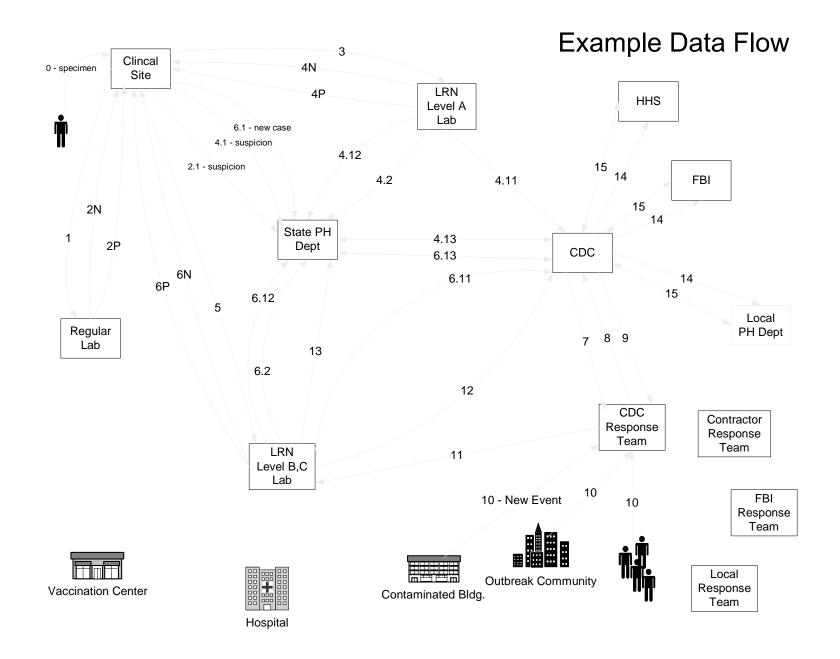
DECEMBER, 1923

New Series



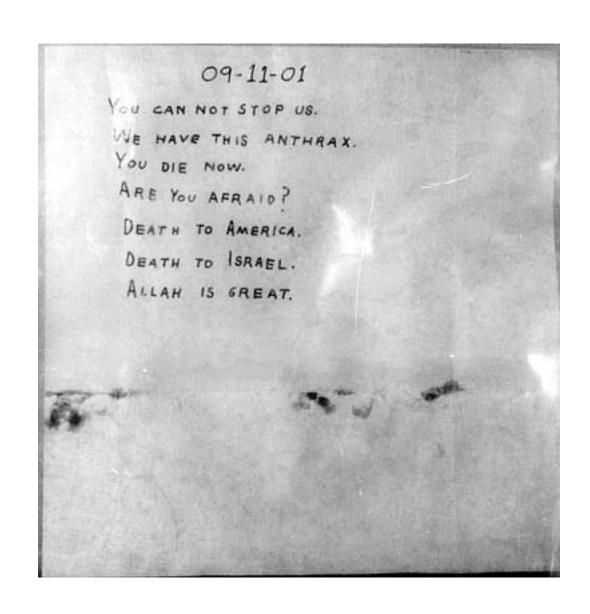
ULL-TIME COUNTY MEDICAL HEALTH SERVICE PREVENTS DISEASE.

DISEASE OR SUSI	PECTED DISEASE	OUTBREAK RELATED	☐ CASE ☐ CARRIER	DATE OF ON		MALE FEMALE
PATIENT'S LAST N	AME, FIRST NAME			□NATIVE AM □ASIAN OR P □BLACK □WHITE		HISPANIC YES NO
PATIENT'S STREET	ADDRESS	CITY OR POST OFFICE	CC	UNTY	11	ELEPHONE
OUT-PATIENT	, NAME AN	ND ADDRESS OF HOSPITAL				
OUT-PATIENT IN-PATIENT NOT TREATE	NAME AND IN HOSPITAL	ND ADDRESS OF HOSPITAL				
☐ IN-PATIENT	D IN HOSPITAL	ND ADDRESS OF HOSPITAL ADDRESS	CI	TY OR TOWN	П	ELEPHONE



C. Broome - CDC

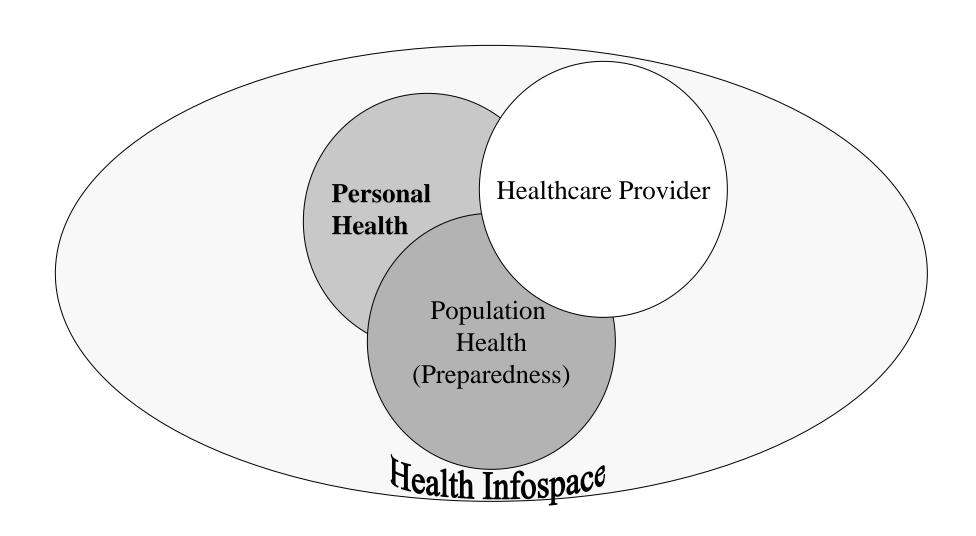
The Need for Solutions is Urgent



Third Wave of Public Health Information System Development

- Federal Centric
 - State developed prototype
 - Installed in many states
- State Centric
 - System Development by Consortium of States
 - Web enabled Immunization Registry
 - Reuse Model
 - ASP Model

NHII



Personal Health Dimension

- Supports the management of individual wellness and health care decision-making
- Includes a personal health record, created and controlled by the individual or family
- Includes non-clinical information such as self-care trackers, health materials, local public health and health care services

General attitudes toward PHR

When asked about <u>specific aspects</u> of a PHR, consumers react favorably.

- 83% of healthcare consumers want lab tests available online (Harris)
- 69% want online charts for managing chronic conditions (Harris)
- 80% want to receive personalized medical information online from their doctor after an office visit (Harris)



I always knew that Data was a four letter word,
I just never knew it was spelled
T-U-R-F

Phil Lee, MD

HHS Agencies with NHII Responsibilities

- AHRQ
- ASIRM
- ASPE
- CDC
- CMS
- Data Council
- FDA

- HRSA
- NCHS
- NIH
- NLM
- OCR
- OPHS

In the modern era, every century has had its major advance that has brought medical science another giant step forward. What will the major advance of the 21st century be?

I am convinced that the medical revolution of our children's lifetimes will be the application of information technology to health care.

Secretary Thompson March 21, 2003

A Word of Caution

The real danger is not that computers will begin to think like men, but that men will begin to think like computers

Sidney J. Harris

A Word of Encouragement

Not only strike while the iron is hot,
make it hot by striking –
Oliver Cromwell