

Amalga UIS Experience at the Wisconsin Health Exchange

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Outcomes Based Information Exchange The Wisconsin Example

Technology

Captures All Data

- 40+ hospitals, 120+ clinics and Medicaid claims data
- >50,000 messages/day and >400,000 real time queries during visits

Reduces Complexity

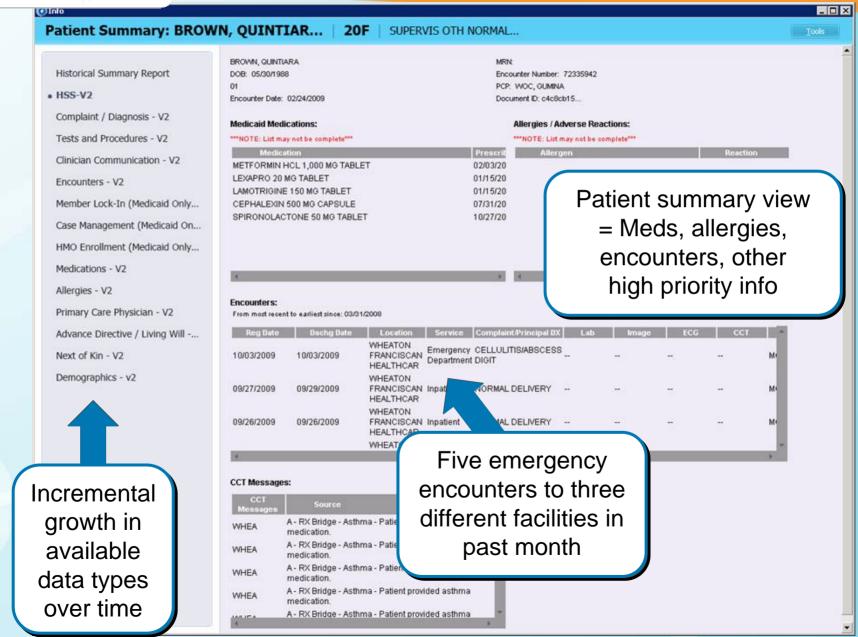
• 5-month implementation

Advances Discoverability

- The EDs can contribute information to support near-real-time effortless public health surveillance.
- Workflow = automated lookup of regional data as part of every patient encounter to aid clinician decision making
- Providers are able to identify high utilizer patients visiting multiple EDs through comprehensive patient history









Untimely Data Prevents Recognition of Regional Pandemic

- Cryptosporidium contaminated the water supply after a severe episode of rain and flooding.
- Approximately 400,000 people fall ill before anyone is aware of the problem.



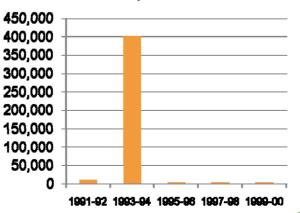
Problem

• Public health officials were **Unaware** of outbreak until pharmacies called officials about unusually high sales of Immodium.

Outcome

• Unnecessary deaths and approximately 400,000 ill.

Number of Cases of Illness Due to Drinking Water Outbreaks, 1991 - 2000





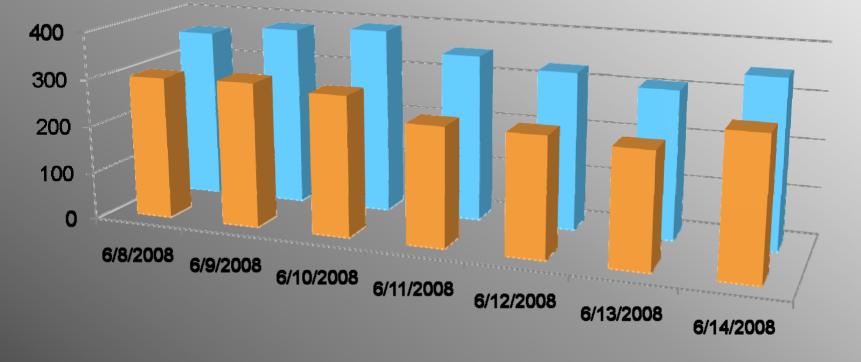
Public Health Surveillance

OCBS	NEWS July 22, 2008 10:3	1am		
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🗆 Video	SEARCH CBS News •	> 00 • Tips	MOST VIEWED STORIES	
U.S. War On Terror Iraq After Saddam Reporter's Notebook	Flash Flood Warnings Posted Tron	t Floods; Hundreds Flee as To Pennsylvania; At Least 3 People Missing Comments		
a World	PIEDMONT, Missouri, March 19, 2008	SPHERE SHARE TEXT SIZE: A A A	I CO C	
D Politics	E-MAIL STORY	Answer Tips" enabled (What's)	this?) Fight Fatigue and Support Immun	
 SciTech Health Entertainment Business CBS Investigate Sports Strange Travel Opinion Blogs In-Depth/Pho 	P P	Disease Su June 2008, 50 years. New filters Did public v		e?



Information About Today... Today!

GI Emergency Department Visits*



Milwaukee Water Works All WHIE

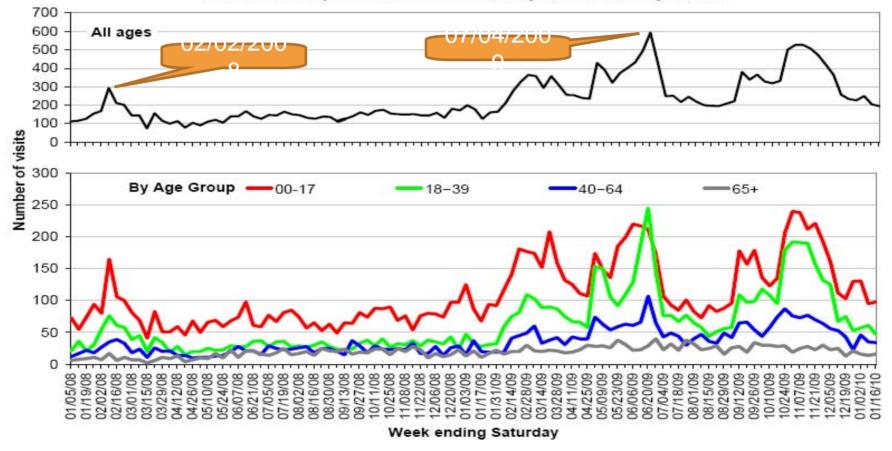
Visit date (begin 72 hour period)

*NO EMERGENCY DEPARTMENTS WERE BOTHERED IN THE PRODUCTION OF THIS GRAPH



Information About Today... Today

Weekly Visits to Emergency Departments at 13 Hospitals in Southeastern Wisconsin for a Chief Complaint of 'Fever/Flu', January 5, 2008–January 16, 2010

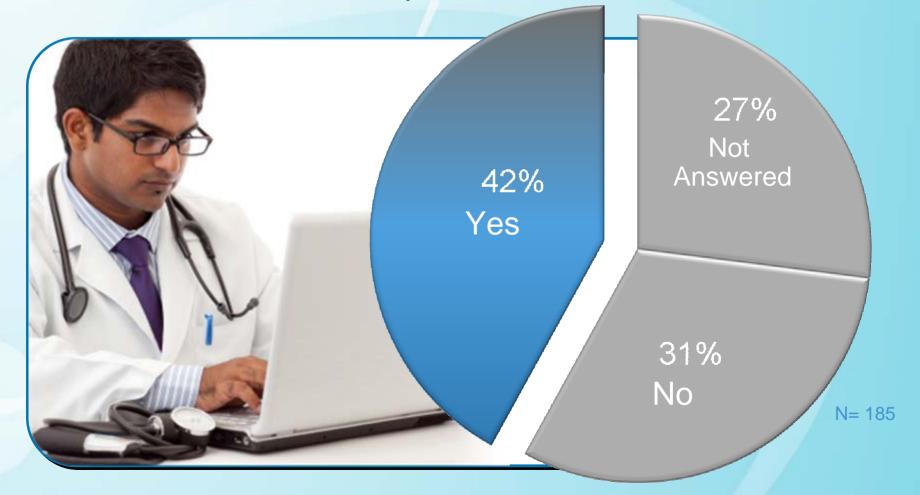


Graphs show real-time electronic data on patient visits to 13 acute-care hospitals in Milwaukee, Racine, Walworth, Kenosha, Waukesha, and Washington counties. Data provided by the Wisconsin Health Information Exchange.





Did data obtained from a regional exchange system at point of care make a difference in patient care?







Study: Impact on Physician Ordering



Projection: Order reductions = \$50 to \$150 saving per person per vear



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