

Web 2.0 for ESF-8 response: Emerging opportunities for greater situational awareness



LT Dina Passman, Fusion Epidemiologist* & Alicia Livinski, Biomedical Librarian**
*HHS, Office of the Assistant Secretary for Preparedness & Response, Office of Preparedness & Emergency Operations, Fusion Cell, Washington, DC **National Institute of Health Library, Bethesda, MD

Summary

The H1N1 pandemic presented a unique opportunity for the public health community to achieve enhanced situational awareness (SA) and emergency response thru the use of web-based social media tools ("web 2.0").

Situational awareness

Situational awareness = "The ability to identify, process, and comprehend the critical elements of information about an incident." National Health Security Strategy, (2009)

Traditional situational awareness tools:

teleconferences, situational reports (written) & email correspondence

Social media (SM) usage in US

- 75% adults use Internet
- 80% own a cell phone
- 55% 18-29yo access Internet wirelessly via cell phone
- African-Americans heavy mobile web users
- 57% adults use social networking sites / 73% of teens
- 19% adults use Twitter / 8% of teens
- ~40% adults get email/text alerts

Types of social media for SA



Social media for situational awareness

DISADVANTAGES • Trustworthiness of source

- ADVANTAGES

 Immediacy
- · Simple & easy to use
- · Heavily used by public
- Sometimes rich data
- Security concerns (IT)A lot of noise!
- Low on caution
- Not used by all population groups

So why use it?

• Ability to push out information to public quickly

• Ability to pull in data from SM tools to see what public is "really saying" – "ground-truthing"

• It is what is being used

• BUT, using the right SM tools to reach the right audiences is crucial



H1N1 + Social Media for SA

THE CASE OF SCHOOL CLOSURES

School closures not reportable to state or federal governments
Schools do not like to announce they are closed
15,000 school districts & ~100,000 schools in the US



How to monitor school closures in US due to H1N1?

How

twitter face



Google

<u>(</u> (

Facebook > young adults (mid/high school), parents Twitter > parents, young adults (mid/high school) Google > search news, blog postings, websites for closures

Twitter > use saved search w/RSS feed for updates search: school closed swine flu OR h1n1 Google News > use saved search w/RSS feed for updates

search: schools closed swine h1n1

• Requires time to sift & sort through the "noise" for the useful information

• Still requires verification with an official source (if possible)



While worthwhile to pilot, due to the high volume of "noise", lack of people, and time to review and sort, this was not a very efficient system to use. However, it was a good learning opportunity.

