



Integrated Surveillance Seminar Series

Hosted by

Division of Integrated Surveillance Systems and Services
National Center for Public Health Informatics

Title: **Automated detection and reporting of notifiable diseases in near real-time using electronic medical records**

Speaker: **Michael Klompas, MD, MPH, FRCPC**

Moderator: **Daniel Sosin, MD, MPH (CDC/COTPER)**

Objectives

- *To describe a portable architecture for extracting, analyzing, and communicating information from electronic medical record systems*
- *To illustrate algorithms for analyzing electronic medical record data to identify notifiable conditions*
- *To delineate possible strategies to facilitate widespread implementation of automated disease detection and reporting from electronic health data*

Date: **Wednesday, December 12, 2007**

Time: **11:00 am—12:30 pm EDT**

Location: **Roybal Campus, Bldg 19, Room 245/246**

Also available via Envision & webinar. Presentation will be archived on Integrated Surveillance Seminar Series website.

Presentation Synopsis

The Electronic medical record Support for Public Health (ESP) project is a collaborative effort of Massachusetts Department of Public Health, Atrius Health, and Harvard Medical School under the auspices of the CDC Center of Excellence in Public Health Informatics in Boston. ESP is a novel architecture for analyzing electronic medical record data in near real-time to detect patients with notifiable diseases and then automatically transmit HL7 electronic messages to the state health department. The system has been operational since January 2007 in Atrius Health, a large multisite medical practice with over 600,000 patients in eastern Massachusetts. Comparison with traditional paper-based reporting suggests that electronic reporting significantly increases the number, accuracy, and detail of case reports. Challenges and opportunities to implement automated case detection and reporting more broadly will also be discussed.

About the Speaker

Michael Klompas is an infectious disease physician and epidemiologist with an interest in leveraging electronic data streams to improve the efficiency and accuracy of disease surveillance. He currently serves as project director and co-investigator of the Electronic Support for Public health project at Harvard School of Medicine. He is also an attending physician in infectious diseases and internal medicine at Brigham and Women's Hospital, Boston, MA.

Participant Access Procedures

If you are unable to attend in person, you may access the event through one of the alternate methods below.

Webinar

Audio Portion (866) 718-2139 Passcode: 7288034

Web Portion <https://www303.livemeeting.com/cc/cdc/join>
Meeting ID: Surveillance12
Password: SurvWebinar

Envision (for CDC facilities only)

Your location may be able to receive this event via ENVISION. Please contact your local ENVISION facilitator or the Envision Office at (404) 639-3404 if interested.

Presentations and recordings may be accessed through the seminar series website at <http://www2.cdc.gov/ncphi/diss/seminars/index.asp>

About the Integrated Surveillance Seminar Series

Purpose: Public health professionals must make decisions based upon information residing in multiple informational silos. Many challenges exist for taking data from separate systems and combining it, providing information to inform critical decision making. This series is intended to provide: an interactive forum for discussion of issues and approaches to integrated surveillance; a mechanism for discussing best practices; education on integrated surveillance; a means to solicit feedback on issues and approaches from critical stakeholders.

Target Audience: Public health professionals and information technology support staff involved in health monitoring (surveillance) and epidemiological response activities.

Prerequisite Skills or Knowledge: Participants should have a basic understanding of surveillance and epidemiology. Previous knowledge of informatics or information technology is not required.

Objectives: (1) Present information on the identified topic; (2) identify unresolved issues or challenges related to the topic; (3) discuss potential approaches or solutions to identified issues/challenges; (4) document any action items for follow-up.

Contacts: This seminar series is hosted by CDC's National Center for Public Health Informatics, Division of Integrated Surveillance Systems and Services. For more information about the seminar series, please send an email to integratedsurveillance@cdc.gov. You may also visit our website at <http://www2.cdc.gov/ncphi/diss/seminars/index.asp>.

