## Integrated Surveillance Seminar Series

**Title:** Developmental Work Toward Implementation of a Master Patient Index: Technical Perspectives and Lessons Learned from North Carolina at the Cusp of Implementation and New York City in an Initial Stage of Development

**Speakers:**
- Tara Riley-Williams (NC DPH)
- Delbert Williams (NC DPH)
- Maushumi Mavinkurve (NYC DOHMH)

**Moderator:** Kevin Fenton (CDC/CCID/NCHHSTP, Director)

**Date:** Friday, October 17, 2008

**Time:** 11:00 am—12:30 pm ET

**Location:** Roybal Campus, Building 19, Rm. 254-255

*Also available via Envision & webinar. Presentation will be archived on Integrated Surveillance Seminar Series website. Visit: [http://www2.cdc.gov/ncphi/disss/seminars/](http://www2.cdc.gov/ncphi/disss/seminars/)*

### Presentation Synopsis

#### North Carolina (NC) Department of Public Health

The NC Division of Public Health is nearing completion of the development and implementation of an electronic disease surveillance system that integrates all communicable disease reporting (including TB, STD, HIV and vaccine preventable diseases). The logistics related to building a Master Patient Index (MPI) from the existing event based data and the security model utilized to serve this array of reportable diseases and conditions will be discussed. The technical and business logistics of person and event de-duplication, needed to sustain the integrity of a MPI, will be addressed. An explanation of the interface of electronic laboratory reports and electronic clinical reports to the MPI will be provided.

#### New York City (NYC) Department of Health and Mental Hygiene (DOHMH)

Disease surveillance programs commonly face data quality challenges such as minimizing duplication and accurate linkage of encounters over time. To address these challenges, NYC DOHMH has integrated probabilistic data matching technology into the new, population-based registry systems for Chronic Hepatitis B (Hep B) and Hemoglobin A1C (HbA1C). The presentation will describe our experience in moving from an event-based legacy Hepatitis B registry to a person-based registry and the impact on disease surveillance. We will also describe how the application of this technology to HbA1C surveillance has facilitated: (1) high-volume data management and normalization, (2) longitudinal tracking of patients over the course of their care, and (3) monitoring medical provider patient panels for improvement over time. The implications of these innovative approaches for future development of a Master Patient Index for new disease registry systems will also be discussed.
**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/disss/seminars/index.asp](http://www2.cdc.gov/ncphi/disss/seminars/index.asp).

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*Webinar (see website for overflow webinar information—URL below)*

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*Envision (for CDC facilities only)*

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