

National and city/state-level quality improvements

Olga Joos

International Statistics Program
US National Center for Health Statistics, CDC



National Center for Health Statistics
International Statistics Program



National level: timeliness

- United States has 57 registration jurisdictions
- 57 jurisdictions report annually an estimated 6.5 million births, deaths, and fetal deaths to the National Vital Statistics System (NVSS)
- All 57 jurisdictions must report their data to the NVSS before NCHS finalizes and releases national data

National level: timeliness

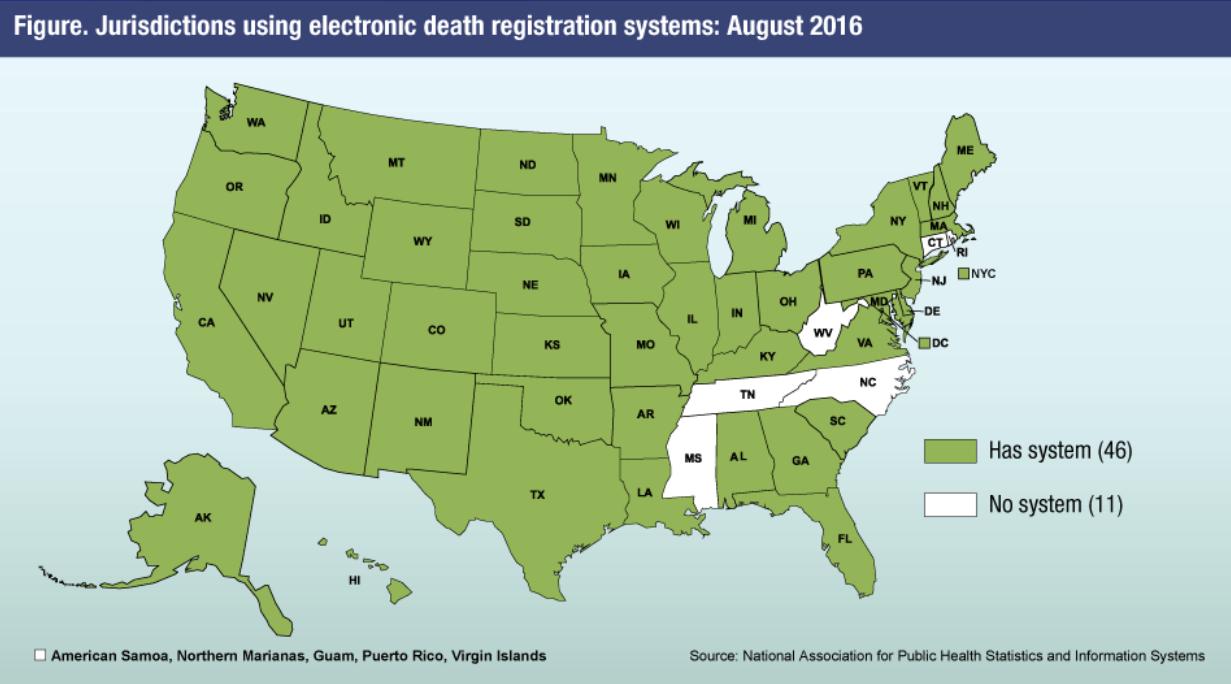
- National level *preliminary* death data for 2010 were not published until January 2012
- **NCHS goal:** 57 jurisdictions participating in Vital Statistics Cooperative Program to report 80% of deaths within 10 days of event

National level: timeliness

- Vital Statistics Cooperative Program contract
 - Promoted timeliness and quality
 - Included support in development and implementation of electronic death registration systems
- NCHS may withhold or reduce payment if jurisdiction fails to meet reporting requirement
- Early warning notification system to proactively identify jurisdictions at risk of failing to meet timeliness and data quality standards

National level: timeliness

- As of July 2016, only 46 of the 57 vital registration jurisdictions have an operating electronic death registration system



National level: timeliness

- In 2014 *final* mortality data were released 12 months after end of data year
 - Earliest final data release for mortality in history of NVSS
 - 2015 *final* data released in December 2016
- Vital Statistics Rapid Release (2015)
 - Release of quarterly provisional estimates
 - State & national provisional counts and estimates of key health indicators

City/State-level

- Quality of cause of death (COD)
 - Conducted by New York Department of Health and Mental Hygiene
 - One of the 57 jurisdictions
- 2003 comparison of in-hospital deaths with medical charts
 - 91% over-reporting of heart disease
 - Over-reporting increased with age

City/State-level

- Intervention period: June 2009- January 2010
- Sample: 8 of the 64 hospitals in NYC

Intervention:

- Conference call with senior staff
- On site, in-service training
- Online learning module
- Process mapping of death certification and registration workflow

City/State-level

- At intervention hospitals heart disease deaths decreased from 68.8% pre-intervention to 32.4% post-intervention
- Citywide, the proportion of heart disease deaths decreased:
 - 39.1% pre-intervention
 - 34.2% post-intervention
 - 32.5% in the extended post-intervention period

City/State-level

- Annual online training requirement for physicians using the electronic death registration system
- Hawaii based its e-learning training on the NYC model

The screenshot shows a computer monitor displaying an e-learning course. The title bar reads "NYC Health Improving Cause of Death Reporting". The main content area features a large green banner with the text "Improving Cause of Death Reporting" in white. Below the banner, a message states: "To complete and certify electronic death certificates in New York City, you must successfully complete this course and the test that follows." At the bottom of the screen, there is a toolbar with various icons and a status bar showing "PLAYING" and "00:30 / 00:47".