

Some Thoughts on Surveillance Using Mortality Data

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Centers for Disease Control and Prevention
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Mortality surveillance is what exactly?

Two goals in mind...

...monitoring deaths, both overall and disease-specific

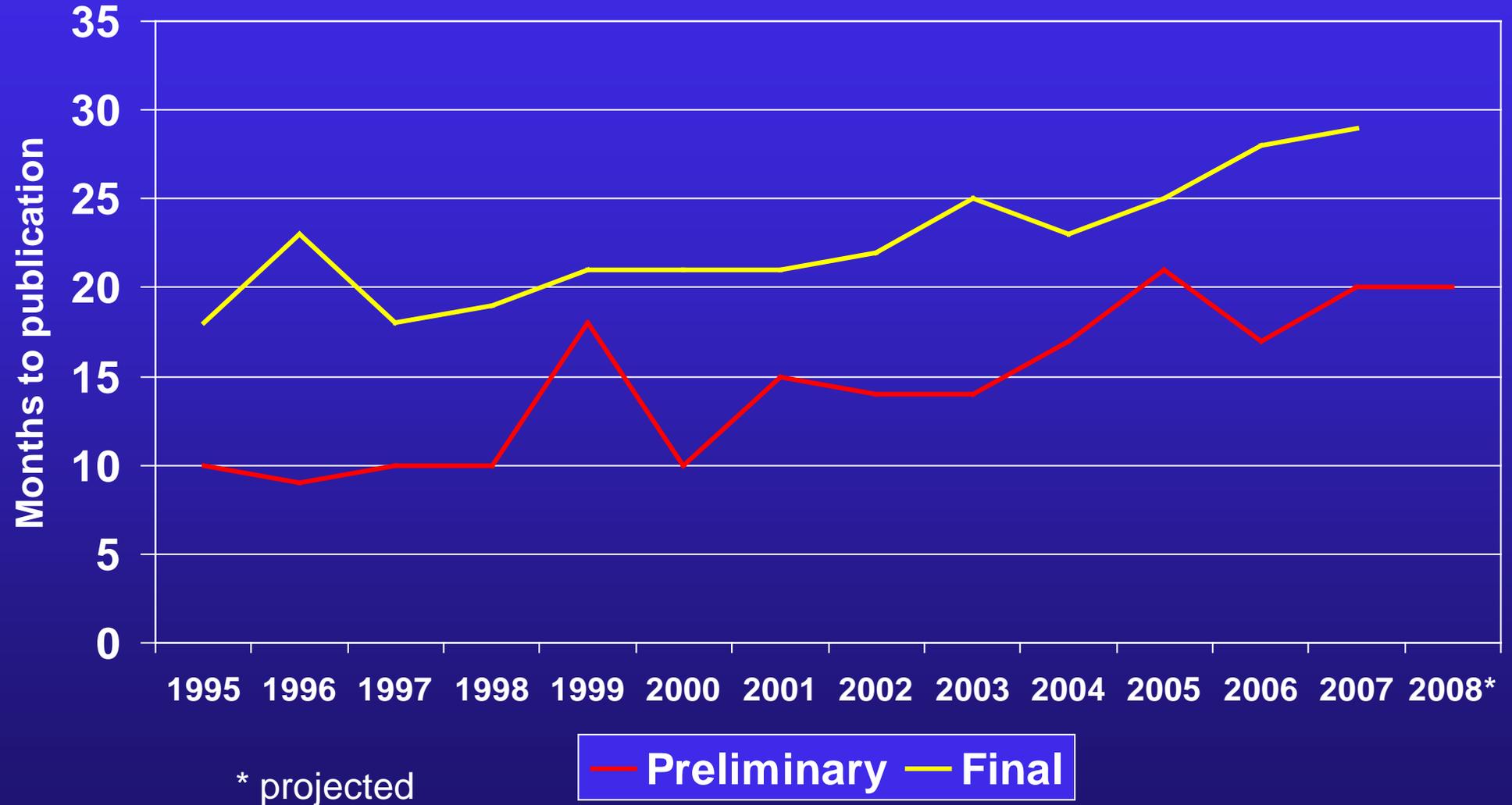
...monitoring data quality

Timeliness...

...is the key to mortality surveillance

...has deteriorated over the past
several years

Number of Months from End of Data Year to Publication/Data Release



How do we shorten this time frame?

- Reengineering systems for:
 - Data collection
 - Data processing
 - Analysis
- Electronic death registration (EDR) systems

Electronic Death Registration

- Potential to dramatically improve timeliness and quality
 - Data entry at the source
 - Timely queries back to the certifier
- Systems currently functioning in many states
 - Coverage in these areas is typically substantially less than 100%
 - Cause of death – challenges getting physicians to certify electronically

What is possible with EDR systems?

- New Hampshire pilot
 - Median time from date of death to receipt at NCHS (COD not coded) – ***4 days***
- Other states with EDR systems report an ability to transmit data within 1 week

Timeliness goals

- Transmission of data, including COD, within 25 days of registration
- Goal is for all states regardless whether they have an EDR or not
- EDR states are expected to be faster – many will be participating in a pilot surveillance project and are expected to deliver in 5 days

Cause of Death Certification

- Disease-specific surveillance requires accurate COD reporting
- Problems include:
 - Lack of specificity
 - Ill-defined conditions
 - Terminal conditions/Non-specific processes as the underlying COD
 - Poorly conceived sequences

What can we do to improve COD quality?

- Physician education
 - In-person seminars
 - E-learning
- Querying the certifier
- Facilitate access to health records
- Methods for collecting COD information

Once timely data are available for surveillance...

...what do we do with it?

...how do we analyze it?

...how do we disseminate it?

Some thoughts

- More timely publication of mortality statistics
- Adopting a surveillance mentality
- Need for methods for analyzing incomplete data
- How frequently do we release data?
 - ...monthly? ...quarterly?
 - ...and in what format?
 - ...how much detail?

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Mortality online

<http://www.cdc.gov/nchs/deaths.htm>

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