Overview of Electronic Death Registration

EDR System Development in Michigan
The Motivation, Methods and Plans
Objectives

- Provide an Overview of Motivators
- Review of Status
- Michigan Developmental Steps
- Cover Basic Functionality
- EDR Leveraging for Cancer Reporting
- Quick Demo using a Prototype
Motivators

- Improve Efficiency
- Reduce Burden on Reporters
- Accelerate Availability
- Meet Federal Guidelines
Interested Stakeholders

- Considerable Interest
  - Secretary of State
  - Cyberstate Committee
  - Medicaid
  - SSA
  - MFDA

- Considerable Concerns
  - Local Role/Control/Revenue
  - Security and Confidentiality
New Federal Mandates

- Intelligence Reform and Terrorism Prevention Act
- Real ID Act
Electronic Death Registration Systems, by Jurisdiction, With SSA Funding Indicator, February 2006

- **Up and Running**: States in green have completed implementation.
- **In Development**: States in yellow are in the process of development.
- **Planning/Rqmts**: States in blue are planning or requesting funds.

States that have received SSA funding are marked with an asterisk (*) next to their names.
Electronic Death Registration Systems by Jurisdiction
With SSA Funding Indicator (*)
Updated March 2009

- **Up and Running**
- **In Development**
- **Up and Running/Back Office**
- **Planning/Requirements Stage**
EDRS implementation – it isn’t easy

- An EDRS is a complex system
  - Numerous data items with extensive edit checks
  - Detailed business rules and workflow
  - Multiple users working on the same death record
  - Many users accessing the system from many points
  - Internet application with a need for high-levels of security
Published the EDRS National Model for review

Configuration Control Board established
  - Approved recommended changes

Re-engineering artifacts revised

Jurisdictions can then tailor the EDRS National Model to meet their specific requirements
EDR Partnership Committee

- National Center for Health Statistics
- NAPHSIS
- Social Security Administration
- National Funeral Directors Association
- American Medical Association
- American Hospital Association
- National Assoc. of Medical Examiners
EDR Functional Features

- Interactive Editing/Validation of Data
- Inter-link with and through SSA
- Remote Printing of Burial Permit
- Electronic Cremation Approval
- On-line Updates on Cause for Pendings
- Import and Export Data
EDR Steering Committee

- Michigan Association of County Clerks
- Michigan Association of Municipal Clerks
- Michigan Funeral Directors Associations
- Michigan Health Information Management Association
- Michigan Association of Medical Examiners
- Michigan Osteopathic Association
- Michigan State Medical Society
- Human Services
- Secretary of State
- Michigan Public Health Institute
- Health Care Association of Michigan
- Dept of Information Technology
- DCH - Medicaid
- DCH - Epidemiology
- DCH – Vital Records
SSA Contract

- Awarded as of 10/2005
- Provides Funds for EDRS
- Places Requirements on EDRS
  - Rapid Tagging of Recipients
Estimated Costs

- Full Project - $4 Million
- Vital Records Component - $2.8 Million
  - $1 Million State Funds
  - $800,000 in SSA Funds
  - $160,000 Medicaid Funds
  - $820,000 CDC
EDR Project Milestones

- 1/05  - Establish Advisory Committee
- 2-10/05  - Design and Planning Meetings
- 12/05  - Initiate Development
- 5/06  - Hire Contractual Staff
- 6/06  - Begin Coding
- 9/07  - Legacy Loads
- 5/07  - Deployment
- 6/07  - UAT
- 8/07  - Pilot Phase
- 10/07  - Roll Out Begins
EDR Project Milestones

- 1/05 - Establish Advisory Committee
- 2-10/05 - Design and Planning Meetings
- 12/05 - Initiate Development
- 5/06 - Hire Contractual Staff
- 6/06 - Begin Coding
- 5/07 - **Contractors Terminated**

- **Project Suspended**
- **Extensions sought from SSA**
- **Began Process to Restart in 2008**
Revised EDR Project Milestones

- 1/05  - Establish Advisory Committee
- 2-10/05 - Design and Planning Meetings
- 12/05  - Initiate Development
- 5/06   - Hire Contractual Staff
- 6/06   - Begin Coding
- 5/07   - Suspend Project
- 5/08   - Restart Project
- 1/09   - UAT
- 5/09   - Pilot Phase
- 7/09   - Roll Out Begins
**Process Flow**

**Process Initiated at Funeral Home**

<table>
<thead>
<tr>
<th>Agencies (SSA and others)</th>
<th>Verify SSN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Funeral Director</td>
<td>Fill Death Certificate</td>
</tr>
<tr>
<td>Physician, Medical Examiner and Coroners</td>
<td>Review and Sign Death Certificate</td>
</tr>
<tr>
<td>State/Local Registrars’ Offices</td>
<td>Archive Death Certificate</td>
</tr>
</tbody>
</table>

- Stop Payments
Basic Mechanics

- Doctors and Funeral Directors Can Initiate
- Remote Entry
- Ownership of Each Case
- Interactive Editing of Submitted Data
- Distributed Access to Filed Records
- Messaging
Key Concepts - Process Flow

- Three forms of filing
  - Paper
  - Electronic with paper medical certificate
  - Entirely electronic
- Biometric Signatures
- Medical Certificate/Worksheet
  - Physician/Facility Authorized Staff
  - Physician Query
  - Medical Examiner Features
- Review and acceptance by local clerk
  - Messaging to Funeral Home/Physician/ME
  - Local acceptance triggers distribution
Additional Functions

- Burial Permit
- Cremation Authorization
- Medical Examiner Referral
- Ordering Certified Copies
- Cancer Reporting
- Infectious Disease Reporting
Funeral Home Users

- Administrative Funeral Home Users
  - Authorized by a Funeral Director
  - Can enter and edit
  - Can not certify

- Licensed Funeral Director
  - Can enter and edit
  - Can certify
Basic Steps to Registration
Funeral Home

- Start EDRS
- Enter Basic Information on Decedent
- System will Screen for Record
  - Identifies Death – Checks Ownership
  - Identifies Medical – Allows Ownership
- Enter Personal Information on Decedent
Basic Steps to Registration Funeral Home

- Medical in System
  - Record ready for filing
- Paper or Faxed Medical
  - Enter Medical Information
  - Scan Medical Certificate
- Need Medical
  - Message Physician User
  - Request Medical Certificate
  - Print Partial Record for Signature
Record Certification – Funeral Home

- Sign Paper Document
- Licensee Must Certify Personal Information
  - Provide biometric
- Once Certified
  - Licensee can request change within 30 days
  - Local can approve/deny/notify
Obtaining Permits

- Personal Information is Certified
- Medical Information is Certified
  - Would include “pending”
- Burial Permit Available for Printing
  - User must be Certifying Licensee
  - Many print up to 4
- Cremation Approval Requests through EDR
  - Many print when ME approved
Physician/Facility Users

- Administrative Facility Users
  - Authorized by Facility/Physician
  - Can enter and edit
  - Can attest with scanned signed medical certificate

- Licensed Physician
  - Can enter and edit
  - Can certify
Medical Certification – Physician

- Sign Paper Document/Medical Certificate
- Administrative User May Certify
  - Provide biometric
  - Physician must complete/sign medical certificate
  - Must scan signed medical certificate
- Physician May Certify
  - Provide biometric
- Once certified
  - Certifier can request change within 30 days
  - Local can approve/deny/notify
Features – Physician/Facility

- Access all Deaths for Facility
- Export Data
- Report a Cancer Case
- Report Communicable Disease Case
Medical Examiner Functions

- Review and Accept/Release Referrals
- Review and Approve/Deny Cremations
- Report Capability
  - Print File Copies
  - Reports on Deaths in Jurisdiction
- Incomplete/Pending Records Queue
EDR Security Issues

- Must Restrict Access to EDR
- Must Assure Proper Certification
- Must Regulate Access to Data
- Must Prevent Inappropriate Edits
- Must Maintain Public Confidence
  - Accuracy
  - Reliability
  - Privacy
## Authentication Techniques Tested

<table>
<thead>
<tr>
<th>Method</th>
<th>Ease of Use</th>
<th>Cost</th>
<th>Portability</th>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Password</strong></td>
<td>simple</td>
<td>low</td>
<td>high</td>
<td>low</td>
</tr>
<tr>
<td><strong>Challenge/Response Token</strong></td>
<td>complicated</td>
<td>high</td>
<td>medium</td>
<td>medium</td>
</tr>
<tr>
<td><strong>Voice Recognition (Active vs. Passive)</strong></td>
<td>complicated</td>
<td>high</td>
<td>low</td>
<td>high</td>
</tr>
<tr>
<td><strong>Fingerprint</strong></td>
<td><em>simple</em></td>
<td>low</td>
<td>high</td>
<td>high</td>
</tr>
<tr>
<td><strong>Signature Pad</strong></td>
<td>complicated</td>
<td>high</td>
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APC Biometric (BIOPOD)
Cancer Reporting through EDR

- EDR Creates opportunity to report
- Emphasis on likely DCOs
  - Not hospitalized
  - Not hospitalized in Michigan
  - Not biopsied
- Targets:
  - deaths outside hospitals
  - hospice
  - nursing homes
- Include in EDR Web training
Rollout

- Begin in Summer of 2009
- Follow Funeral Directors Districts
  - Utilize Regional MFDA Infrastructure
- Conduct Regional Training
- Bring Up Regions in 120 day Intervals
- Decide on Order and Number of Phases