Collaborating Office for Medical Examiners and Coroners

https://www.cdc.gov/nchs/comec/

Contact us at MDI@CDC.GOV
Vision for MDI Data Modernization

- Make it easier for medical examiners and coroners to --
  - Provide more specific and up-to-date mortality data
  - In a coordinated, consistent, and secure way
  - Across jurisdictional boundaries
  - Without disruption to workflow
  - With the ability to get more value out of the data they collect
MDI FIC: MDI offices that will help design, test, and build standards-based and open API-driven approaches of exchanging electronic MDI data
CDC MDI Data Modernization Initiative

Design, Build, Test, Learn
Data modernization in MDI Offices

Focus is on offices of medical examiners and coroners

- Collaborating with MDI community to establish common data elements
- Developing data standards (i.e. MDI FHIR IG)
- Developing tools and standard API recommendations
- Provide technical support
- Establishing MDI FHIR Implementer’s Collaborative in partnership with CDC Foundation
Highlight: MDI FHIR Implementation Guide

- Health Level 7 FHIR Data Standard
- Developed, balloted, and published Standard for Trial Use
- Focus on MDI Case Management Systems between Electronic Death Registration Systems and to toxicology
- Will be revise based on learning from MDI FIC and other early adopters
**MDI Data flows**

**Information used in Death Investigation**
- Emergency Medical Services
- Medical, Rx History
- Death Scene, Circumstances
- External Exam, Autopsy
- Toxicology, Other Labs

**Downstream Data Users**
- State Vital Records Office
- Electronic Death Registration System
- Organ & Tissue Procurement Organizations
- State & Jurisdictional Teams
  - Violent Death Reporting Systems
  - State Unintentional Drug Overdoes Reporting System
  - Child Death Review
  - Sudden Unexpected Infant Deaths/Sudden Death in the Young

**Key:**
- MDI FHIR IG – published STU 1
- Possible future MDI FHIR IG
Highlight: Technical assistance for MDI data modernization

Providing tools and support to assist with standards-based interoperability and API development
CDC MDI data modernization needs input for scalability
## Modernizing Medical Examiner and Coroner Data Systems

### What data modernization is and why it matters

Data modernization refers to the reshaping of data to create modern, integrated, and real-time data systems. More timely and accurate data facilitate health surveillance that can protect us all from any health threat. It is not just about technology, but about putting the right people, processes, and policies in place. The goal is to move from siloed data systems to connected, resilient, adoptable, and sustainable systems that can help solve problems before they happen and reduce the harm caused by the problems that do happen.

### Goals

**For the Medicolegal Death Investigation (MDI) Office:**

- Reduced data entry efforts for death certification process
- Reduced effort exchanging data with others, such as NVDRS, organ procurement organizations, state health departments
- Increase access to data for office functioning and research
- Allow comparisons with other MDI offices who have adopted the MDI data standard

**For users of Medicolegal Death Investigation data:**

- Increased timeliness and reduced effort for data exchange
- Standard data elements from MDI offices

---

References

Collaborating Office for Medical Examiner and Coroner Website
https://www.cdc.gov/nchs/comec
MDI Data modernization website

Data Exchange Practices of Medicolegal Death Investigation, MDI Data Workgroup Report
https://forensiccoe.org/private/63da9032991eb
MDI FHIR Implementation Guide 1.0.0 STU 1 US
http://hl7.org/fhir/us/mdi/
Raven MDI Test Platform
https://github.com/mortalityreporting
Thanks!!!