

CDC Medicolegal Death Investigation Data Modernization


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MDI FHIR Implementation Collaboration
RFP Q&A
June 29, 2023

COMEC

Collaborating Office for **Medical Examiners** and **Coroners**

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




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Collaborating Office for Medical Examiners and Coroners

Medicolegal death investigations conducted by medical examiners and coroners are crucial to understanding causes of death, monitoring evolving health challenges, and – ultimately – saving lives. The Collaborating Office for Medical Examiners and Coroners (COMEC) works to bring together resources from across the Centers for Disease Control and Prevention (CDC) to support the work in the medical examiner and coroner community. Content is continuously updated as new materials are developed or identified.

 **About COMEC**
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 Death Certification	 Training and Forms for Death Investigations	 Health and Safety
 National Vital Statistics System	 National Violent Death Reporting System	 State Unintentional Drug Overdose Reporting System
 Sudden Unexpected Infant Death & Sudden Death in the Young	 Disaster and Preparedness	 Infectious Diseases
 Modernizing Medical Examiner and Coroner Data Systems	 Medical Examiner/Coroner Laws, by State	 State Medical Examiner and Coroner Organizations

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

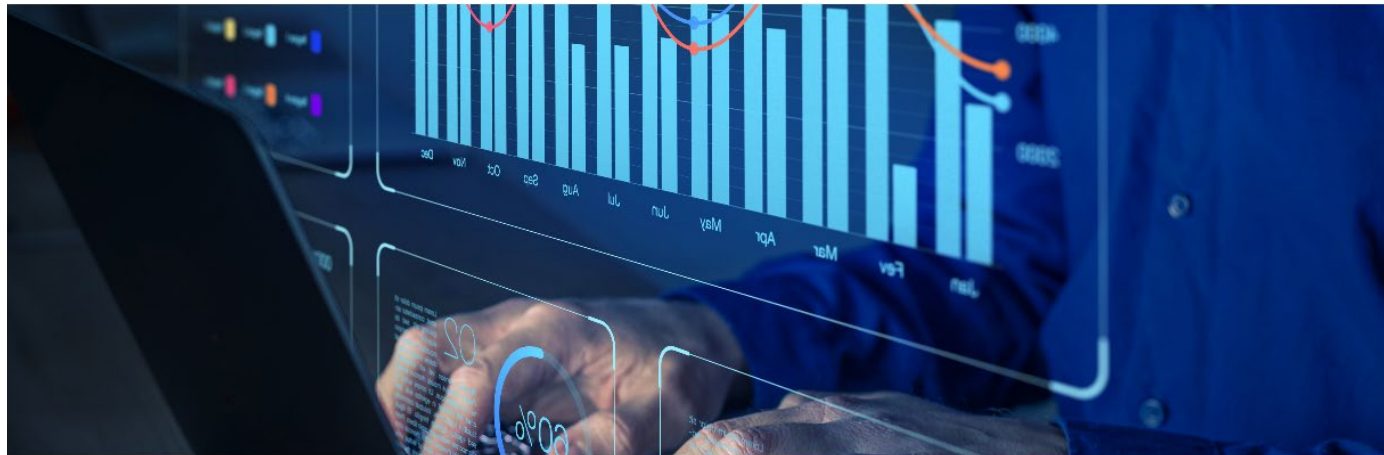
Contact us at MDI@CDC.GOV

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 FHIR Implementation Collaborative

MDI FIC: MDI offices that will help design, test, and build standards-based and open API-driven approaches of exchanging electronic MDI data

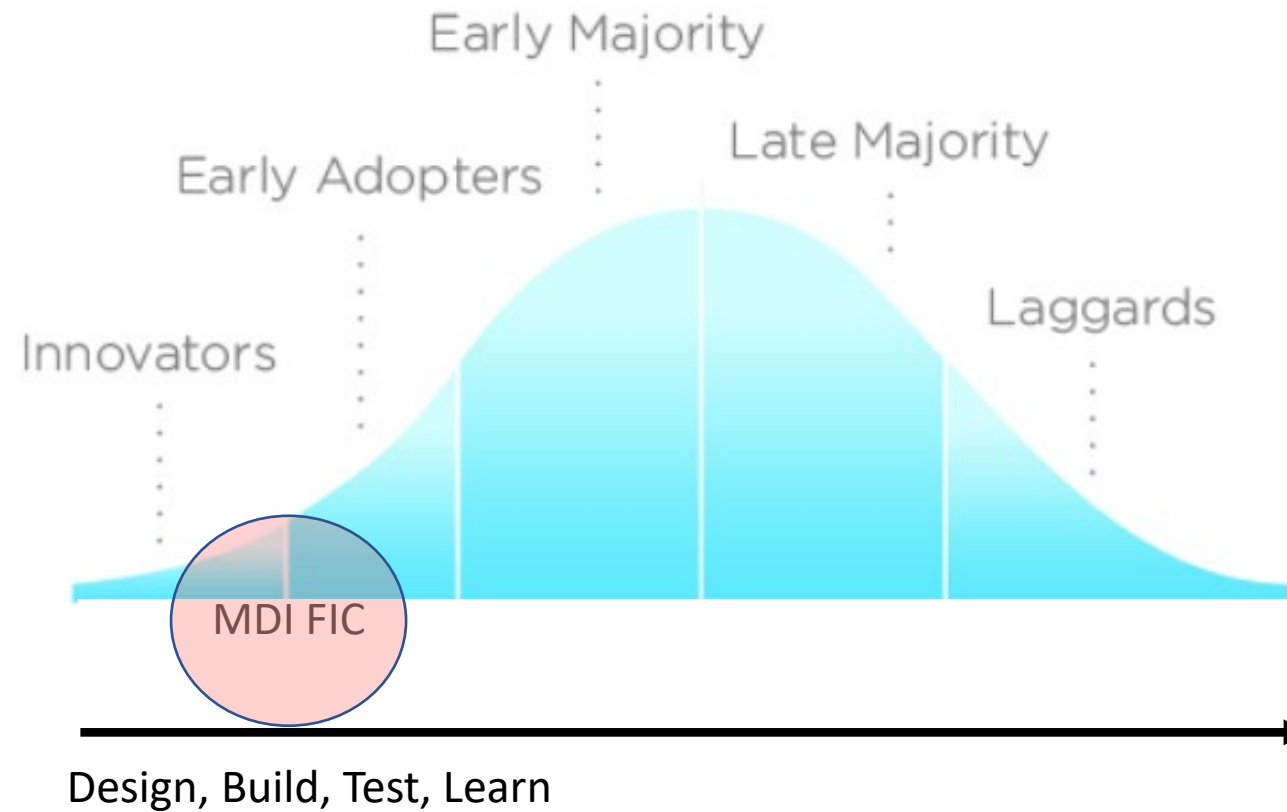


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CDC Foundation Announces Awardees For Collaborative Aimed At Improving Data Sharing for Medicolegal Death Investigation

CDC MDI Data Modernization Initiative



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

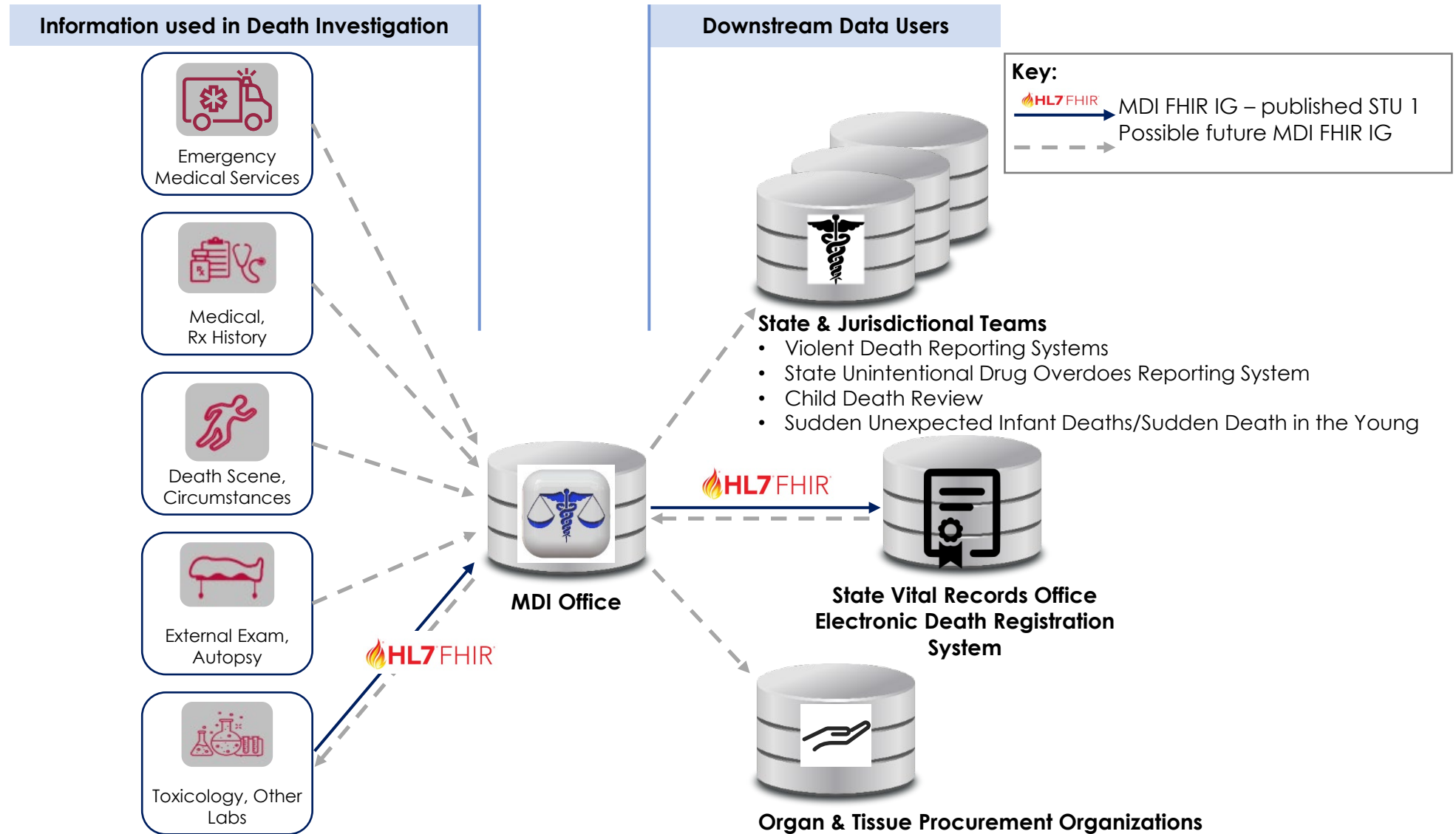
The screenshot shows the HL7 International website for the Medicolegal Death Investigation (MDI) 1.0.0 - STU 1 US FHIR Implementation Guide. The page features a red navigation bar with links to IG Home, Table of Contents, Background, Best Practices, Specification, Terminology, Downloads, and Artifact Index. Below the navigation bar, a yellow banner states: "This page is part of the Medicolegal Death Investigation (MDI) (v1.0.0: STU 1) based on FHIR R4. This is the current published version. For a full list of available versions, see the Directory of published versions." The main content area is titled "1 Home Page" and contains a table with the following information:

Official URL: http://hl7.org/fhir/us/mdi/ImplementationGuide/hl7.fhir.us.mdi	Version: 1.0.0
Active as of 2022-08-25	Computable Name: MedicolegalDeathInvestigation

Below the table, the section "1.1 Description" provides a detailed overview of the implementation guide. To the right of the description, a yellow box contains a list of links: Description, Technical Overview, Audience, and Authors.

- 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



Highlight: Technical assistance for MDI data modernization

Providing tools and support to assist with standards-based interoperability and API development

Raven Case Viewer Import Case Record Comparison FHIR Validator

Case Viewer



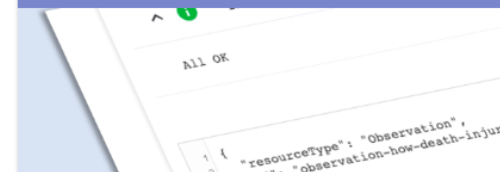
View records on the Raven FHIR Server and be able to explore their underlying FHIR Resource structures.

Import Case



Import a record to the Raven FHIR Server for use in other features.

FHIR Validator



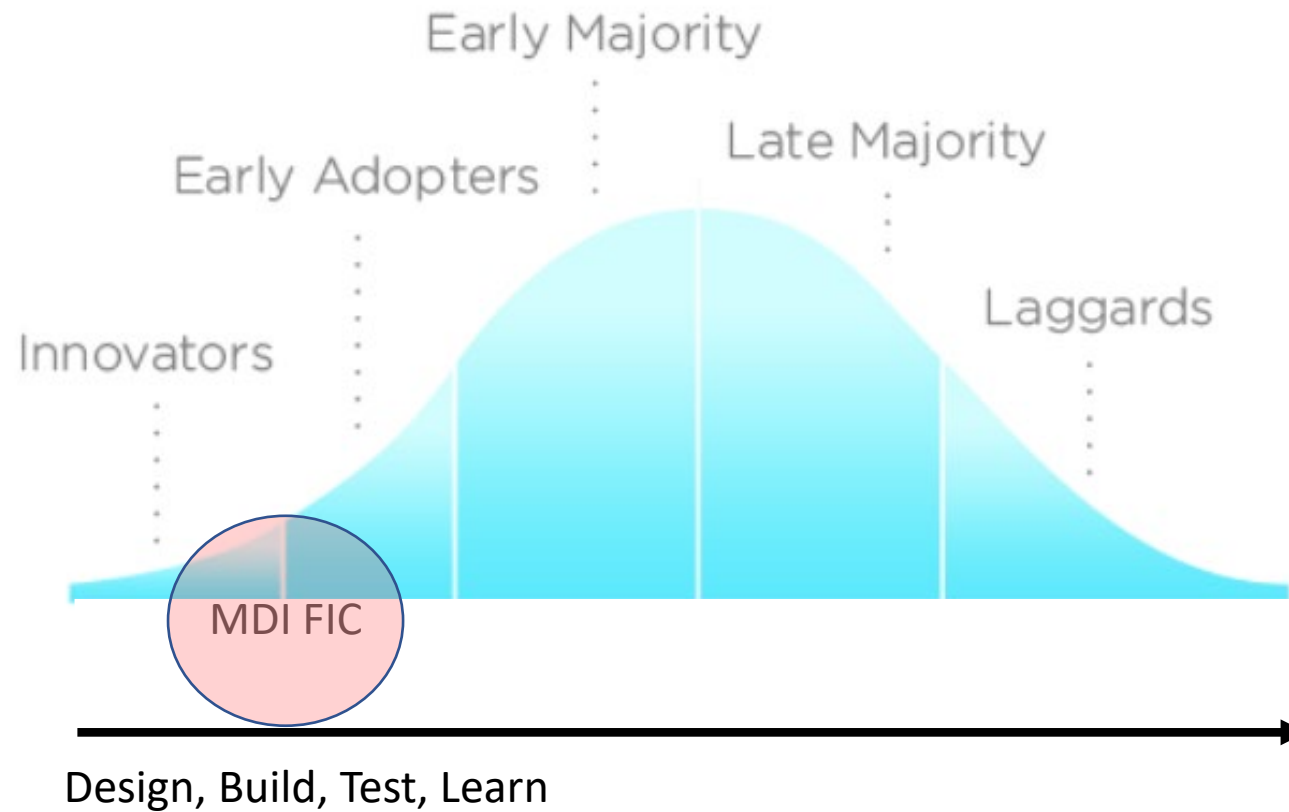
Validate against the structure definitions for MDI FHIR Document Bundles or individual Resources and Profiles.

Record Comparison



Compare a user generated FHIR record against a known valid example from Raven.

MDI Data Modernization Initiative



CDC MDI data modernization needs input for scalability

MDI Data Modernization Initiative

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Modernizing Medical Examiner and Coroner Data Systems

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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

<https://www.cdc.gov/nchs/comec/modernizing-mec-data-systems.htm>



References

Collaborating Office for Medical Examiner and Coroner Website

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

MDI Data modernization website

<https://www.cdc.gov/nchs/comec/modernizing-mec-data-systems.htm>

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!!!