

HL7 Individual Case Safety Report

43rd Annual Meeting



Atlanta - 2007

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Session Outline

 Overview of the HL7 Individual Case Safety Report Standard (ICSR)

Comparison between the HL7 and ICH ICSR

Next Steps





HL7 Individual Case Safety Report

- HL7 ICSR is a standard for the exchange for adverse event and product problems
 - Release 1 ANSI accredited HL7 standard for human pharmaceuticals and devices
 - Release 2 Draft Standard for Trial Use (DSTU) covering additional products approved by HL7 January 2007
- Supports reporting of adverse events and product problems to a variety of organizations:
 - > Public health: State, local, federal
 - Patient safety or quality improvement organizations
 - > Regulatory or other statutory agencies





ICH ICSR

- Limited scope
 - Related to Pharmacovigilence
- Limited in design
 - Capturing events and outcomes as a result of a substance administration

- Broader scope
 - Related to Patient Safety
- Broader in design
 - Capturing actions and relationships between patients and associated persons and anyone involved in their healthcare





ICH ICSR

- Mandatory reporters
 - Supports pre and post market adverse event reporting by mandatory reporters only

- Terminology fixed
 - Clinical information requires the use of MedDRA

- Mandatory and Voluntary reporters
 - Supports pre and post market adverse event and product problem reporting for both voluntary and mandatory reporters
- Terminology Flexible
 - Clinical information terminology is flexible





ICH ICSR

- Limited information exchange
 - Designed to support EDI reporting between pharmaceutical companies and regulatory authorities based upon the company's core safety database
- Limited perspective
 - ICH regional perspective, based upon ICH participants: pharmaceutical and regulatory

- Broader information exchange
 - Designed to support integration of clinical decision support triggers automated reporting based upon stored electronic health record data
- Broader perspective
 - Global perspective and interests: clinical, pharmaceutical, quality improvement, academic, regulatory, vendors





ICH ICSR

- Limited product support
 - E2B(M) supports human drugs and biologics (excluding vaccines)
 - E2B(R) plans to support human vaccines
- Limited case reporting
 - Individual case reporting

- Broad product support
 - Human and Animal Drugs Biologics including vaccines
 - Medical devices and combination products
 - Food, food additives, dietary supplements and cosmetics
- Broad case reporting
 - Group case reporting
 - Individual case reporting





HL7 ICSR Comparison Summary

- Supports a wider variety of product classifications
- Supports flexible implementations
- Supports pre and post market surveillance
- Supports integration with Electronic Health Record systems





- HL7 ICSR is comprised of three components:
 - >ICSR Base Model
 - ➤ Product Intervention (Use)
 - > Product Information





- ICSR Base Model captures:
 - Administrative Information
 - Investigative Subject and Associated Person Information
 - ► Reaction and Case Narrative
 - Medical and Medications History
 - Clinical Trial Enrollment





- Product Intervention captures:
 - Information about how the product was used or administered to the investigative subject or associated persons
 - Release 2 created a generic structure with flexibility to support requirements for a variety of product types





- Product Information captures:
 - ➤ Detailed information about the product (such as its ingredients, manufacturer, packaging, approval and characteristics)
 - Release 2 generic model supports a wider variety of product classifications including combination products





HL7 ICSR Supports FDA Initiatives

- The HL7 ICSR supports FDA vision of a consolidate infrastructure for report receipt and cross-product analyses by:
 - Providing a common format for consistent data capture
 - Providing flexibility for harmonizing domains using common terminology





HL7 ICSR Next Steps FDA

- ➤ Continue pilot testing with ICSR Release 1 for electronic device reporting
- Continue agency harmonization of data elements and terminology requirements
- Coordinate HL7 ICSR Release 2 DSTU testing





HL7 ICSR Next Steps National and International

- Evaluation of HL7 ICSR in the Health Information Technology Standards Panel (HITSP)
- > Evaluation of HL7 ICSR in ISO activity
- Continue participation in HL7 and federal government initiatives to harmonize ICSR with clinical trial reporting:
 - ✓ NIH Federal Adverse Event Task Force (FAET)
 - ✓ HL7 *RCRIM and *CDISC *BRIDG Harmonization
- NIH = National Institutes of Health
- RCRIM = Regulated Clinical Research Information Management Technical Committee
- CDISC = Clinical Data Interchange Standards Consortium
- BRIDG = Biomedical Research Integrated Domain Group





HOW CAN YOU CONTRIBUTE?

- Become active in HL7 or subscribe to the HL7
 Patient Safety Special Interest Group List server
- Contribute requirements to the ISO/HL7/CEN/ICH Consortium project through your appropriate PhRMA representatives
- Participate in FDA DSTU Testing







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