



Informatics Domain Definition

To conduct research within the context of real-world health systems using appropriate study designs and analytic methods to assess outcomes of interest to health systems stakeholders.

Domain Competencies and Objectives Relevant to Informatics

- **Using data from electronic health records and other clinical information sources for quality improvement***
- Using data from clinical information systems (e.g., EHR, decision support, medical imaging, dashboards) for research
- Using data to assess and monitor the health of specific populations (e.g., health system, provider clinics)
- Identifying and using additional data sources (e.g., registry, Medicare, geographic) that can be linked to health system clinical data to improve the accuracy of intervention and outcome data
- Assessing data quality (e.g., accuracy, missingness) and processes for ensuring data quality (e.g., error prevention, following data standards)
- Assessing social and behavioral determinants of health

*Competencies in **bold** are highlighted in this Use Case

Applied LeaRRning Case: The Journey to Learning Health Systems: The Impact of Interoperability on Post-Acute Care

Introduction to the Case Study: This case will review the US government's support for an interoperable and shareable healthcare system and its potential effects on rehabilitation practice and research. We will focus on the PACIO, a collaborative and consensus-based effort to advance interoperable health data exchange using internationally accepted technical standards (HL7 FHIR) among Post-Acute Care settings and providers, patients, their caregivers, and key stakeholders across healthcare. A demonstration of the exchange of PAC data is included using the PACIO implementation guide and use case.

Learning Resources to Advance Your Competencies in Informatics

Readings

- About learning health systems, 2019 ([AHQ](#)) (accessed 5/15/24)
- [Identifying requisite learning health system competencies: a scoping review](#)
- [The IMPACT Act of 2014: Standardizing patient assessment data to support care coordination, quality outcomes, and interoperability](#)
- [Where to start? A two-stage residual inclusion approach to estimating the influence of the initial provider on health care utilization and costs for low back pain in the US](#)

Other Resources

- Department of Health and Human Services, [Addressing Health Worker Burnout: The U.S. Surgeon General's Advisory on Building a Thriving Health Workforce 2022](#) (accessed 5/14/24)
- US Department of Health & Human Services, [2020-2025 Federal Health IT Strategic Plan](#) (accessed 5/15/24)
- [PACIO Project](#)

To continue learning about Informatics visit the [LeaRRn Resource Database](#)