Key Resources

The following Key Resources offer a sampling of public health materials, featuring a curated list of websites and organizations that provide a wide range of information on public health informatics, data modernization, interoperability, disease prevention, surveillance tools, and workforce development. This list includes resources from global, national, and local public health organizations with a role in supporting and guiding public health informatics efforts.

Organization	Resource	Description	Key Words
AIRA	AIRA Immunization Information Systems 101	Provides an overview of the key principles and functionalities of Immunization Information Systems (IIS). Additionally, explain the national and local policies and their impacts on IIS.	• Immunization Information Systems (IIS)
Altarum	Public Health Interoperability	Provides training and educational resources on interoperability in public health.	• Public Health Interoperability • Training Resources • Data Exchange
APHL	Public Health Laboratory Competencies	Provides an outline of the knowledge,skills and abilities necessary for public health laboratory professionals to deliver core services efficiently and effectively.	• Public Health Laboratory • Quality Improvement
ASPPH	Health Workforce Development	Provides resources and initiatives aimed at developing and strengthening the public health workforce.	• Public Health Workforce • Workforce Training
ASTHO	Public Health Authority Toolkit	Provides guidance on governance, policy development, and stakeholder engagement, aimed at improving health outcomes in the community.	• Policy development • Stakeholder Engagement

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CDC	CDC's Public Health Infrastructure Grant	Provides an overview of how the grant aims to strengthen public health systems by enhancing workforce capacity, improving foundational public health services, and advancing data modernization.	• Public Health Infrastructure • Workforce Capacity • Foundational Services • Data Modernization
CDC	CDC Data Modernization Initiative	Provides a comprehensive overview of the Data Modernization Initiative detailing its goals, milestones, and impact on public health data management	• Data Modernization Initiative • Interoperability • Data Analytics
CDC	Work Information and Electronic Health Record	Provides insights on the integration of occupational data into healthcare systems and discusses how work-related information such as job characteristics and employment history can improve patient care, public health awareness and health outcomes.	• Electronic Health Records (EHRs) • Occupational Data for Health (ODH) • Work Information • Interoperability
CDC	ICD-10-CM	Provides comprehensive information on the International Classification of Diseases, Tenth Revision, and Clinical Modification, including coding guidelines, updates, and tools.	• Disease Classification • Coding • Medical Diagnosis
CDC	Vision for Public Health Data	Public health data goals, approach, and roadmap for achieving data modernization and transforming data exchange.	• Data goals • Data modernization • Data strategy • Data exchange
CDC	Public Health Ecosystem, Data Goals, Sources, Modernization	Provides an overview of the modernization of public health data systems including strengthening core data, visualizing insights, and promoting interoperability.	• Public Health Ecosystem • Interoperability • Data Modernization

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CDC	CDC- Surveillance Resource Center	Provides organized access to guidance and tools developed by CDC and its partners to improve public health surveillance practices	• Surveillance • Practice Tools
CDC	CDC - Public Health Workforce Development	Provides extensive resources on public health workforce development, including training programs, fellowships, and strategies to build capacity.	• Public Health Workforce • Capacity Building • Recruitment and Retention
CDC	Public Health FHIR Playbook	Provides guidance for state, tribal, local, and territorial public health agencies on implementing FHIR for electronic health data exchange.	• FHIR • Interoperability
CDC	CDC- FHIR Community of Practice	This community meets on the third Wednesday of every month at 11:00 AM EST to focus on advancing the use of Fast Healthcare Interoperability Resources (FHIR) within public health. Its goals include promoting collaboration among stakeholders, sharing best practices, and supporting the implementation of FHIR standards.To request access contact ophdst-comms@cdc.gov.	• FHIR • Interoperability
CDC	NVSS Modernization Community of Practice	This community provides resources for workforce capacity building in public health informatics, interoperability and FHIR working in the NVSS modernization space.	• FHIR • Interoperability • Health Level Seven
CDC	Guidance-HIPAA Privacy Rule and Public Health	The Health Insurance Portability and Accountability Act of 1996 (HIPAA), Public Law 104-191, was enacted on August 21, 1996. HIPAA establishes standards for the protection of sensitive patient information known as Protected Health Information.	• HIPAA • Privacy Rule

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		As a public health agency employee working with information systems, you may have access to Protected Health Information (PHI) which requires strict adherence to security and confidentiality standards. The Privacy Rule applies to the covered entities and understanding the Health Insurance Portability and Accounting Act is essential, even if your public health agency (PHA) is not classified as a covered entity, it is important for people working in public health information systems to be aware of HIPAA. The basics of HIPAA for covered entities are described in HIPAA Privacy Rule and Public Health: CDC and HHS Guidance. An understanding of how HIPAA affects sharing of health information with PHA is provided in HIPAA Privacy Rule and Public Health MMWR Volume 52(S-1)p. 1-12, May 2, 2003. Within that, the Overview of the Privacy Rule section discusses data sets and disclosure in general, and The Privacy Rule and Public Health section discusses special provisions for sending data to public health agencies.	
CSTE	CSTE-Tribal Epidemiology	Provides resources and best practices for public health professionals working with Tribal Nations and Tribal Epidemiology Centers. It offers guidance on key topics like Tribal sovereignty, cultural humility, data collection, and public health authority. Updated in 2023, the toolkit aims to improve health outcomes for American Indian and Alaska Native communities by enhancing collaborations between Tribal and non-Tribal public health entities.	• Tribal Nation • Public Health Authority • Tribal Sovereignty

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HHS	HIPAA and Public Health	Provides key aspects such as privacy rules, security standards, breach notification protocols and patients rights regarding their health data.	• Protected Health Information • Security Rule • Privacy Rule
HIMSS	Patient Matching	This brief explores the benefits and challenges of patient matching and identification strategies as well as their impact on immunization data exchange and patient care. It also provides context and information for governmental partners about the importance of accurate patient matching strategies.	• Patient matching
NACCHO	LPH Funding Whitepaper	The Local Health Department Funding Experiences white paper highlights the challenges and dynamics of public health funding at the local level. Through interviews with diverse health departments, it examines the complexities of federal, state, and local funding mechanisms, highlighting the persistent issues of underfunding, inflexibility, and administrative burdens. It offers actionable recommendations aimed at improving funding processes, enhancing resource allocation, and fostering a resilient public health infrastructure.	• Local Health Department funding • Public Heath funding
NEJM Catalyst	Plugging Public Health Data into the Health IT Ecosystem to Protect National	This article highlights the challenges within the data ecosystem for detecting and responding to emerging public health threats. It also describes the benefits and potential of modern interoperability between healthcare and public health systems.	• Public Health Ecosystem • Interoperability • Data Modernization

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	Health		
ONC	Health IT and Health Information Exchange Basics	Provides a comprehensive overview of HIE, including its benefits, implementation strategies, and resources for public health	• Interoperability • Health Information and Technology
ONC	TEFCA Overview	This provides a super high-level overview of TEFCA, which aims to promote secure, nationwide data sharing to improve interoperability, support patient-centered care, and enhance access to health information.	• Interoperability • Health Information and Technology
Pew	State Public Health Data Reporting Policies and Practices Vary Widely	This report from The Pew Charitable Trusts provides a first-of-its-kind analysis of these policies and practices across all 50 states and the District of Columbia (referred to as jurisdictions throughout the report) that govern how clinical data flows to state public health agencies via four methods: case reports, lab reports, syndromic surveillance, and immunization information systems. There is a quiz to test the reader's knowledge.	• Data reporting • Data policy • Data practices
PHF	Data Science and Informatics Training	Training plans curated by PHF covering various data science and informatics topics such as the Data Life Cycle, Explaining DMI to Leaders, and special topics like AI, GIS, modeling, etc.	• Informatics • Data modernization • Data science • Training
PHII	Data Modernization Learning Community	The Learning Community meets on the third Thursday of every month from 3:00 PM to 4:00 PM EST. This forum is specifically for data	• Governance • Organizational Structure • Cloud Migration

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		modernization initiative directors and core team members to collaborate and share approaches to common DMI challenges, such as cloud migration, governance, machine learning, and other shared services.	• Machine Learning