![NENIC - New England Nursing Informatics Consortium - Moving Information THROUGH NURSING](logo)

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Health Information Exchange:

What is it and why should I care?

May 2013

Today's Session:

1. Definitions

2. HIE vs. EMR

3. Why is the HIE Accessed?

4. Components

5. Implementation Strategy

6. Benefits

7. Change Management Strategy

8. Challenges

9. Orion Health HIE Client Profile

Health Information Exchange (HIE) …

"… actually encompasses two related concepts:

– Verb: the electronic sharing of health-related information among organizations

– Noun: an organization that provides services to enable the electronic sharing of health-related information (HealthIT.gov)

"… refers to the process of reliable and interoperable electronic health-related information sharing conducted in a manner that protects the confidentiality, privacy and security of the information." (AHIMA)

"… is the electronic movement of health-related information among organizations according to nationally recognized standards." (US Dept of HHS)

≠ Health Insurance Exchange

For more information visit http://www.healthit.gov/providers-professionals/health-information-exchange/what-hie

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EHR vs. HIE

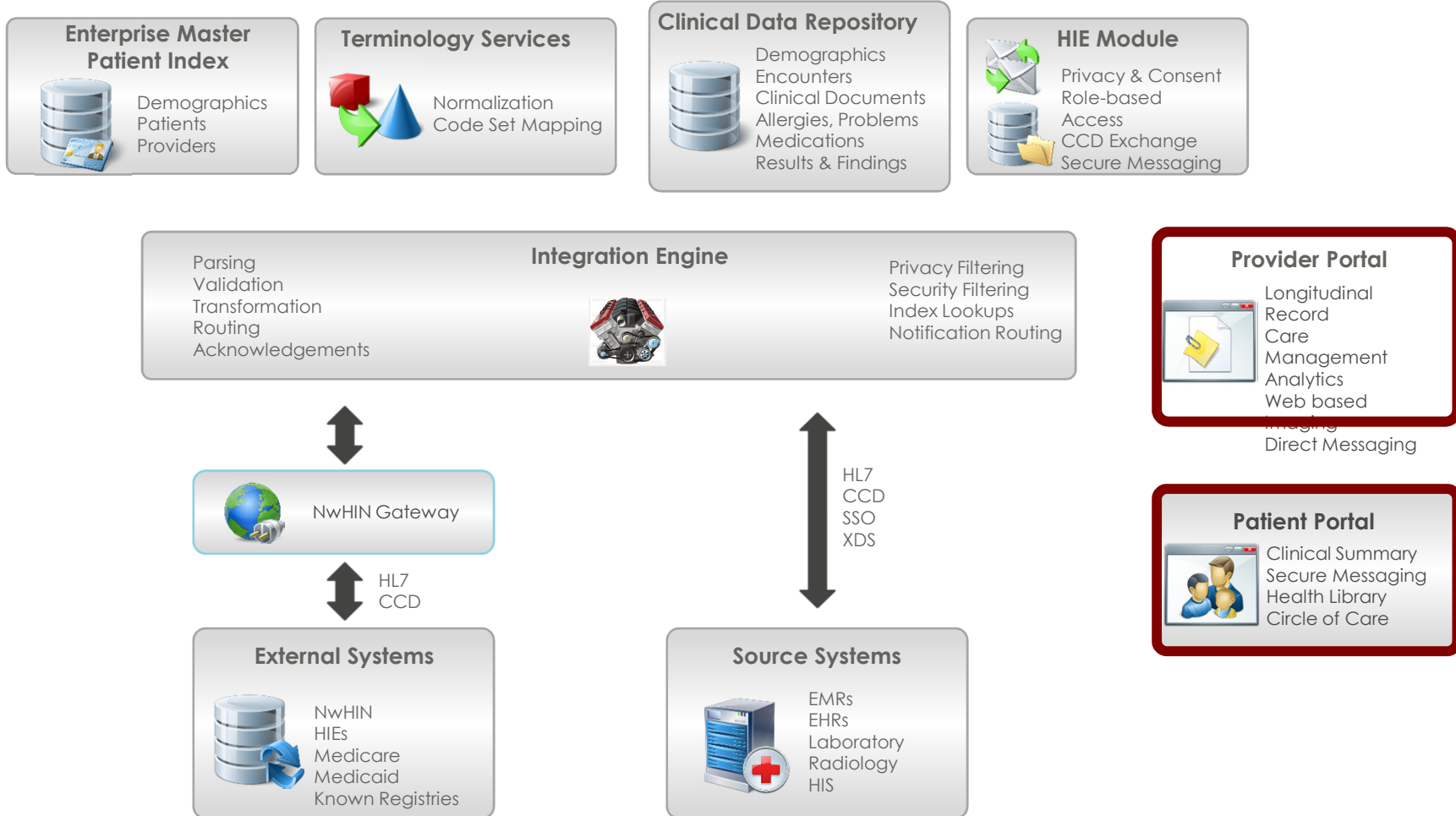|	EHR	HIE
Patient Record	Facility or organization-based; MRN is the unique patient ID	Longitudinal view integrating information from 2 or more sources; enterprise master patient index links MRNs from many organizations to one unique identifier
Functionality	Detailed clinical documentation, medico-legal patient record	Primarily view-only – focus on critical patient data (allergies, medications, problems) and summary documentation (discharge summaries, visit notes)
Standards	Structured data entry encouraged; organization-based or modified code sets utilized; free text entry permissible	Essential for "information reconciliation" – HL7 messaging, code sets (ICD-9, SNOMED), continuity of care document (CCD) ...
Change Management	Complete process reengineering – move from paper to automation; entire clinical workflow is reinvented for the better	Not about reengineering! It's about: • Ensuring seamless integration points • Expediting information flow • Eliminating the use of outdated communication channels

Why the HIE is accessed?

When and why a Provider needs to access the HIE:

- New patient, not seen before
- Infrequent patient
- Complex patient
- Tracking of patient
- Patient ER visits and hospital stays
- EHR is unavailable
- Remote Access

HIE Components

Enterprise Master Patient Index

Demographics
Patients
Providers

Terminology Services

Normalization
Code Set Mapping

Clinical Data Repository

Demographics
Encounters
Clinical Documents
Allergies, Problems
Medications
Results & Findings

HIE Module

Privacy & Consent
Role-based
Access
CCD Exchange
Secure Messaging

Integration Engine

Parsing
Validation
Transformation
Routing
Acknowledgements

Privacy Filtering
Security Filtering
Index Lookups
Notification Routing

Provider Portal

Longitudinal
Record
Care
Management
Analytics
Web based
Imaging
Direct Messaging

HL7
CCD
SSO
XDS

NwHIN Gateway

HL7
CCD

Patient Portal

Clinical Summary
Secure Messaging
Health Library
Circle of Care

External Systems

NwHIN
HIEs
Medicare
Medicaid
Known Registries

Source Systems

EMRs
EHRs
Laboratory
Radiology
HIS

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HIE Implementation Strategy

Core HIE

- **Provider Portal**
- Enterprise Master Index
- Clinical Data Repository
- Integration Engine
- CCD Exchange
- Direct Secure Messaging
- Privacy & Consent

Care Coordination

- **Patient Population Management**
- Chronic Disease Guidelines
- Public Health Reporting
- Analytics

Community Health Record

- **Patient Portal**
- Diagnostic Orders
- ePrescribing
- Referrals
- Innovative Care Models

Benefits

- Helps facilitate coordinated patient care across disparate organizations

- Reduces duplicative treatments

- Avoids adverse patient care events

- Increases efficiency by eliminating unnecessary paperwork

- Improves public health reporting

- Promotes best practice standard patient populations

- Stimulates patient's involvement care

INCREASED PRODUCTIVITY

COLLABORATIVE CARE PLANNING

BETTER ACCESS TO INFORMATION

Enhanced Patient Safety

IMPROVED QUALITY OF CARE

STANDARDIZATION OF INFORMATION

Change Management Strategy

- Have a strategy to effect change – otherwise you never move beyond utilization and curiosity

- Engage the stakeholders

- Identify HIE "touch points" to facilitate clinical workflow integration

- Plan for role-based users – clinicians and support staff derive differing value and benefits

- Establish a clinical governance structure

- Training vs. education

- Develop a communication plan

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Challenges

- Data quality issues from source systems
- Information reconciliation – lack of standards
- Consent management -- protecting the patient's right to privacy
- Data sharing among competitors
- Competing priorities
- Ensuring sustainability

Orion Health HIE Client Profile

Canada Flagship HIEs

- Alberta Health Services, AB
- New Brunswick Department of Health, NB
- Quebec Department of Health, QC
- Saskatchewan Department of Health, SK
- The Northwest Territories, NT
- Ministry of Health & Long Term Care, ON
- Newfoundland & Labrador Centre for Health Information, NL

Europe Flagship HIEs

- Greater Glasgow NHS Trust, Scotland
- IB Salut, Palma, Spain
- NCS, France
- Health and Social Care Northern Ireland (HSCNI), Northern Ireland

Asia Flagship HIE

- Singapore Ministry of Health, Singapore

USA Flagship HIEs

- Maine HealthInfoNet, ME
- Alaska eHealth Network (AeHN), AK
- Lehigh Valley Health Network, PA
- Louisiana Health Care Quality Forum, LA
- North Carolina DHHS, NC
- Lahey Clinic, MA
- Inland Northwest Health System, WA & ID
- Western Washington Rural Health, WA
- Shared Health, TN
- Chatham County, GA
- Ochsner Health System, LA
- North Texas Accountable Healthcare Partnership, TX
- St Vincent's Medical Center, FL
- Inland Empire HIE, CA
- Catholic Health Initiatives, CO
- New Mexico Health Information Collaborative, NM
- District of Columbia, DC
- Commonwealth of Massachusetts Executive Office of Health and Human Services, MA

Australia Flagship HIEs

- NSW Health, Sydney, NSW
- Dept. of Health & Ageing PCEHR, Australia

● HIE Implementations

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