

Meaningful Use Clinical Quality Measure Reporting

An Open Source Solution





Development Partners

Sponsor

The Office of the National Coordinator for Health Information Technology

Developer



a nonprofit research and development center working solely in the public interest



What is popHealth?

Meaningful Use

Electronic
Health Record
Certification

Interoperability

Clinical Quality
Measure
Reporting



- Clinical Quality Measure reporting tool
- Features:
 - Provider-friendly user interface
 - Includes all 44 Meaningful Use Stage I ambulatory clinical quality measures encoded per CMS electronic specifications
 - Affordable, accessible, open source and multi-platform software
 - A reference implementation for vendors and providers

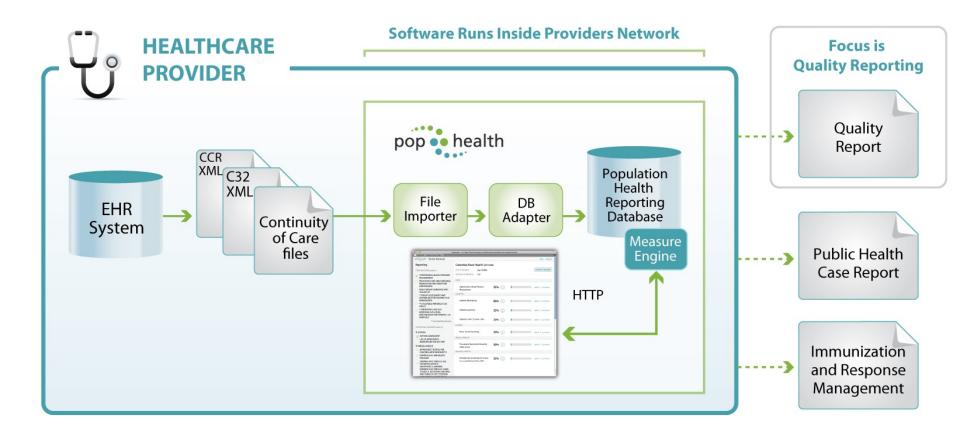


Key Design Features

- Standards-based data input
 - Utilizes ONC-certified EHR Continuity of Care data transmission standard as patient data source
 - HITSP C32 XML
 - ATSM CCR XML
- Open source solution easily deployed within Provider's firewall
- All identifiable patient data remains in provider practice to address security and privacy issues
- Provides aggregate stats and ability to drill down to named individuals

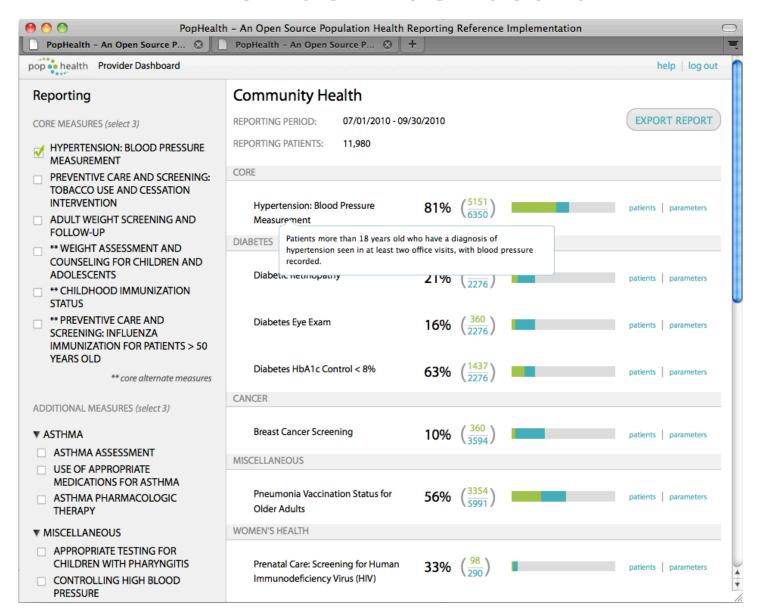


Data Process Flow



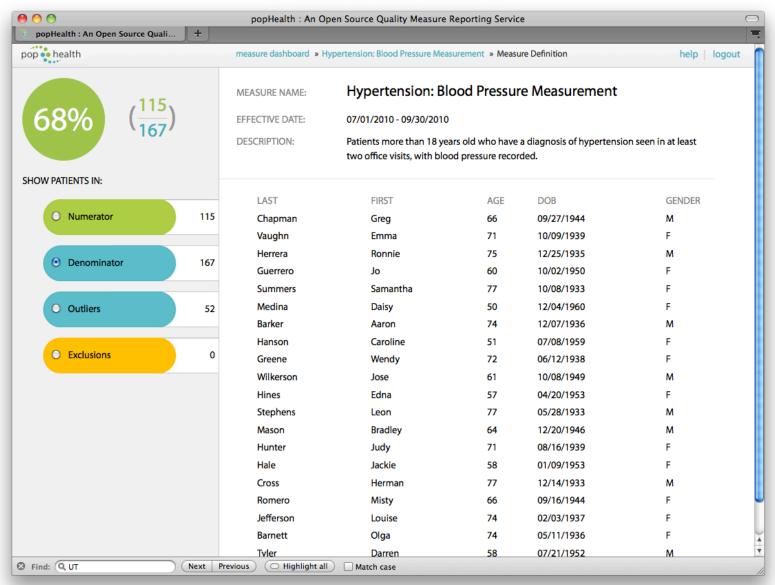


Provider Dashboard



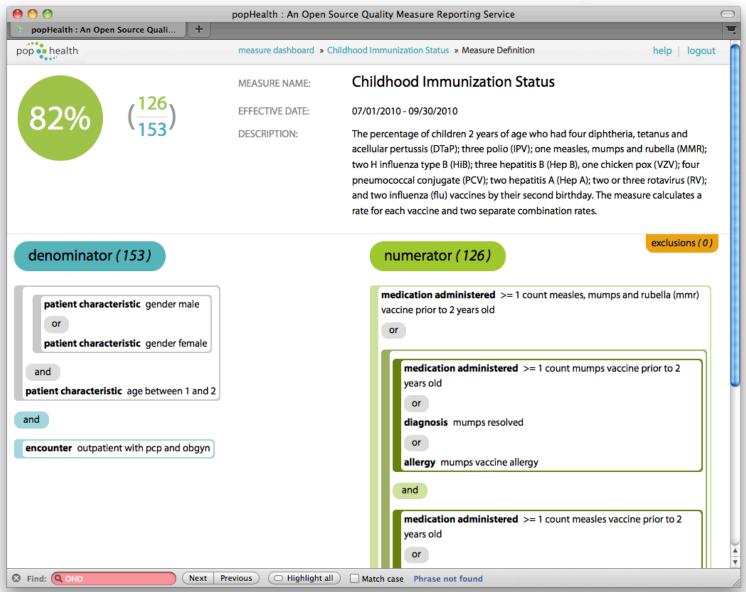


Patient List





Measure Definition Sample





Benefits: Quality Measure Integrity

Validate Accuracy

- Partnerships with Measure Stewards to identify and resolve issues
 - American Medical Association (AMA)
 - National Committee for Quality Assurance(NCQA)
- Testing performed, both in-house and at provider pilot sites ensures accurate and reliable quality measure reporting

Ensure Confidence

- Providers are empowered to improve care with accurate and reliable clinical quality measure reports
- Vendors incorporate quality measure programming that meets
 Meaningful Use certification requirements; relieved from parallel development



Benefits of an Open Source Community

Creativity:

Stimulates design and programming innovation

Transparency:

 Allows access and freedom to view, inspect, modify and re-distribute open source work

Auditability:

 Provides accessibility to inspect and scrutinize the underlying source code for the software

Lower Cost:

 Lowers financial costs normally associated with software development. Costs incurred by users to install, integrate and modify open source software



For More Information

For more information on popHealth, please visit the project website at: www.projectpophealth.org

popHealth was featured at the HIMSS 2011 Interoperability Showcase

Sponsored by:

Office of the National Coordinator for Health IT Meaningful Use Division





Backup Material



Using Continuity of Care Records

- popHealth's innovative design leverages the certified EHR generation of Continuity of Care records to produce clinical quality measure reports
- Benefits of this approach include:
 - Utilizes standard CCR or C32 Continuity of Care files available per ONC Standards and Certification rule
 - Opportunity to reduce costs and speed implementation for quality measure reporting
 - Works with multiple EHR systems
 - Promotes Interoperability
 - Easily scales for new measures
- Vendors/providers using clinical repositories for source data may directly integrate with popHealth and leverage the quality measure engine



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Assists the U.S. Government with scientific research & analysis, development & acquisition, and/or systems engineering & integration

Refrains from manufacturing products, competing with industry, or working for commercial companies

Previous technical background with continuity of care standards, Developed Laika, an open source EHR testing framework used in EHR certification process