



Immunization Registry Reporting in Community Health Centers

*Presented by:
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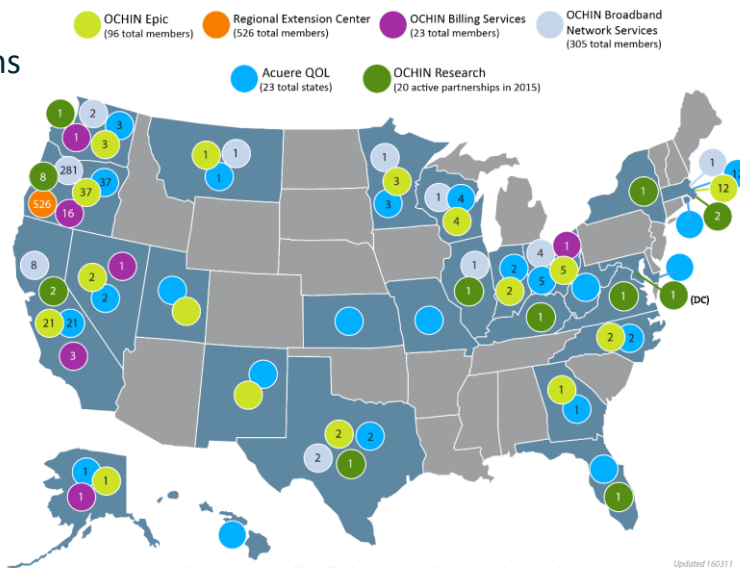
About OCHIN

- One of the nation's Largest Health Center Controlled Networks
- Provide EHR/IT, analytics, billing, quality improvement, and consulting services
- Customers include primarily Federally Qualified Health Centers, Rural Health Centers, County Health Depts, and nonprofit clinics

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About OCHIN

- 95 member organizations across 18 states nationwide
- Approximately 500 clinic locations
- Approximately 4,000 primary care providers
- 900K unique patients and 3.2M visits in 2015

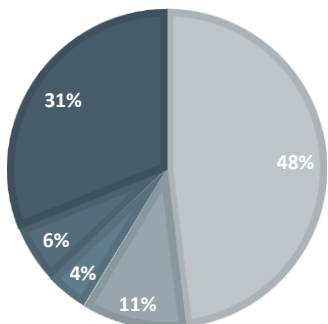


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Patient Profile (CY2015)

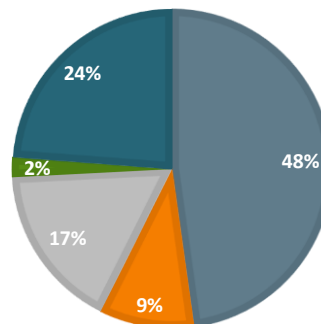
Federal Poverty Level

- 100% and below
- 101-150%
- 151-200%
- Over 200%
- Unknown



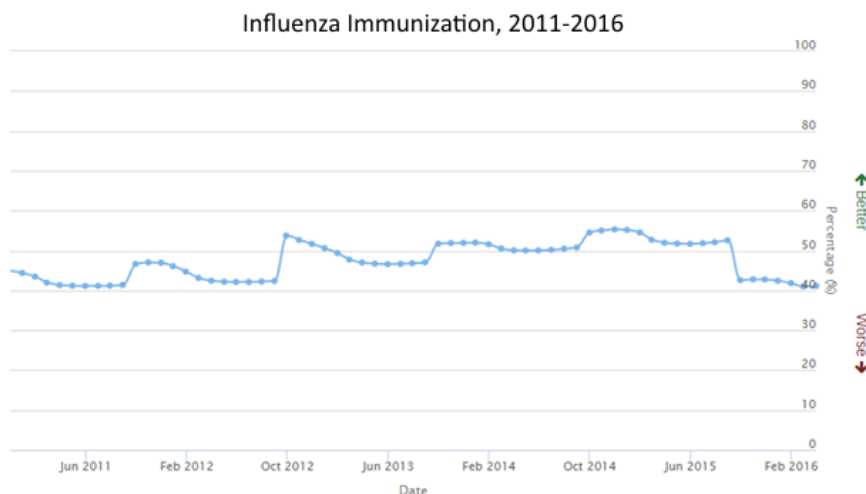
Insurance Status

- Medicaid
- Medicare
- Private
- Grant/Other Public
- Uninsured



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Influenza Immunization Performance Across OCHIN



- US Average
2013-14: 46.2%
2014-15: 47.1%
Per www.cdc.gov/flu/
- Healthy People
2020 Goal: 70%

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Vaccination Support in EHR

- Decision support at Point of Care
 - Health Maintenance Topics
 - Best Practice Alerts
- Monitoring/Reporting Performance
 - Provider, location, organization levels
- Communication with Immunization Information System (IIS) registries
 - Automatic submission of administration information
 - *Bidirectional querying for previous administration information*

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Bidirectional IIS Information Exchange

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Importance of Bidirectional IIS Exchange in the CHC Setting

- Considerations for medically underserved patient populations:
 - Less likely to have continuity in provider/care
 - More likely to have language and health literacy barriers
 - More likely to suffer poor health overall
- Considerations for resource use and cost
 - Duplication of administration
 - Waste of provider and staff time

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Bidirectional IIS Exchange at OCHIN

- Out of 900k unique patients, 200k had influenza immunization at visit to OCHIN clinics in 2015 (22%)
- Challenging for primary care providers to receive information about the large number of immunizations happening in other settings
 - Employer, pharmacy, school, church, etc.
- 200k influenza administration records sent to IIS systems from OCHIN
 - Zero results back outside OR in 2015

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Technical Challenges

- Variation in capability among IIS systems
- Variation in format/process among capable IIS systems
- Backlogs to enroll for connection and testing
- Complex to implement
- Costs associated to develop (and license) interfaces

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Implementation Aspects of Bidirectional IIS Exchange

- OCHIN with CDC and National Association of Community Health Centers (NACHC) to address challenges and improve bidirectional IIS exchange
 - Create/transmit query and process/display response
 - Patient matching and chart reconciliation
 - Determining which IIS system(s) to query

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Initiating IIS Query and Display Result

- OCHIN's Epic EHR provides ability to query IIS directly from patient encounter
- 30 seconds or less to process and return a list of immunizations records for patient
- Available for PoC IIS in Oregon; Washington and Georgia in final testing ad set to deploy soon

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Bidirectional Result Limitations

- IIS does not return results if its matching cannot limit to a single patient
- Without reconciliation into patient chart, process must be repeated at each visit
- Limited to IIS for the point of care only
 - Patient may have results in other IIS systems

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IIS Immunization Record Reconciliation

- Permanently associating returned records with patient chart
- Results must be matched/verified by EHR to ensure they file to correct record
- Individual immunization results must be reconciled with existing records to avoid duplication
- Currently in testing

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Querying Multiple Registries

- Filtering logic to query IIS systems based on various locations pertaining to the patient
 - point of care
 - patient's address
 - place of birth
 - prior known addresses
- Becomes more important as bidirectional interfaces proliferate
- May create greater challenge for patient matching

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Querying Multiple Registries

- Current status: Working with EHR Vendor (Epic), awaiting development of their proposed solution
- Need for this logic is a good problem to have

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Looking to the Future

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Next Steps for OCHIN

- Continue to build out bidirectional query/result IIS interfaces with new states
- Ensure reconciliation process works with new interfaces
- Work with Epic to test and validate filtering logic
- Work with IIS systems newly implementing bidirectional exchange
 - leverage testing and workflow experience with other IIS

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How Can CDC Help CHCs?

- Continue working with NACHC, OCHIN, and other partners in the safety net.
- A national IIS registry would greatly simplify and streamline immunization tracking in a way that state and regional IIS systems cannot.
- Barring that, more uniform standards for bidirectional IIS interfaces would streamline their adoption and improve patient and population health.

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Thank You!

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