

Navigating the Challenges of HL7 Data Exchange:

What They Should Send, What They Could Send,
What They Do Send

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WASHINGTON STATE ——— —
IMMUNIZATION
——— INFORMATION SYSTEM

Presentation Objectives

- Review the Washington State HL7 Experience
- Describe the Evolutionary Steps to the Current HL7 Process
- Highlight Definitions, Decisions, and Tools that Promote Success
- Publicly Thank the Washington State HL7 Team!

Washington's HL7 Experience

- 2004 – Implementation of STC's IWeb Application
- Local Health Jurisdictions – Insight EHR
- IHS – RPMS EHR
- Ongoing HL7 projects:
 - VFC Providers
 - Non-VFC Providers Attesting for Meaningful Use
 - CDC Interoperability Grant
- 100 Interfaces, Covering Approx. 190 sites, Receiving 25,000+ messages/day

Evolutionary Steps

- Sole focus on the “IT of it” – transport, messages accepted – no testing!
- No connection to VFC recording requirements or expectations of any “requirements” – Follow CDC Standard
- Vendor/Provider expectations grew, assembled a team, internal document defined “process”
- Precertification Checklist followed
- Testing process using Development server – What’s the test? What is a passing grade?
- STC recommended development of a state level HL7 guide – initially declined!

WA State HL7 Project Tools

- Precertification Checklist

All required data fields are successfully reaching the registry and populating accurately, including Facility ID and Gender, at a threshold of 95% or higher.

Minimum Required Fields: The set of data items for the interface must include:

Demographic Section:

- ✓ Medical Record Number/Patient ID (must be unique, *PID-3*)
- ✓ Patient Name, Last (*PID-5*)
- ✓ Patient Name, First (*PID-5*)
- ✓ Patient Date of Birth (*PID-7*)
- ✓ Guardian/Guarantor First Name, Last Name (*NKI Segment* – only *GRD*, *MTH*, *FTH*, *PAR* or null accepted)
- ✓ Gender (*PID-8*)
- ✓ Full Address (*PID-11*) – street address concatenated to one line only
- ✓ Facility Name (*PD1-3.1*) and Facility ID (*PD-3.3*)
- ✓ VFC Status (*PV1-20*)

- WA State HL7 Project Guide



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HL7 Interface Project Guide

Version 1.3
September 15, 2012

Team + Tools = Project Status

Invitation to:

- Set and articulate IIS Expectations for internal and external customers
- Explain IIS definitions, testing process, threshold values to “pass”
- Exert leverage to obtain the quality interface expected
- Review, update, track versions, document new expectations – “grandfathered/mothered?”
- Negotiate – minimum acceptable, “contract” for future
- Document IIS process in way under 200+ pages!

What Should/Could/Do They Send?

- All data elements required to record an administered VFC vaccine (Washington is a Universal State)
- All data elements your IIS has identified as required, where required means it must be included or the interface is not accepted for Production
- All necessary data elements to reach your data quality threshold – 95% for patients <19

Lessons Learned

- Getting to Yes/Getting to No!
- Leverage – Set Expectations
- Required means required – avoid exceptions
- IIS expectations are reasonable, vendors/providers may be waiting for IIS to raise the bar
- Decision maker – a team member plays this role ☹️

Washington State HL7 Team

- Yousif Hozail – IT Lead
- Kim Cunningham – IT Support
- Jodi Warren – Data Quality
- Belinda Baker
- Sherry Riddick
- Kristina Crane
- STC HL7 Resources

Questions?

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