



Analysis. Answers. Action.

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Public Health Laboratory Data Flow for Pregnancy Status and Zika

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Current Data Flow

From Provider to Lab:

- Pregnancy Status is Ask on Order Entry (AOE) (HL7 v2 messages use OBX segments for AOE, with associated LOINC / SNOMED CT codes)

From Lab to PHA:

- Can be included in ELR (HL7v2) to PHA

From provider to other providers or PHA:

- in summary documents (CDA) in social history section or problem list

Challenge:

- Not all public health labs report test results using HL7 messaging



Standards to Address Pregnancy Status?

- Yes
 - Establish data elements that are required vs desired
 - Determine if data is just for exchange vs stored and retrievable for future reporting/ analysis
 - Can you use the same standards for both?
- What should those standards address?
 - Pregnancy Status - Yes
 - Post Partum Status – Yes
 - Gestational Age - Maybe

Solutions to Improve Data Sharing

- Short Term Solutions
 - Define standard vocabulary for data exchange
 - Define standard location for elements (in HL7 v2 and CDA)
- Medium Term Solutions
 - Harmonize vocabulary solutions across data exchange standards used (if not already done short term)
 - Identify data element representation and associated vocabulary in storage
- Long Term Solutions
 - Standard data element representation across storage and exchange
 - Allow reasoning against data elements for decision support