HHS Initiative on Neonatal Abstinence Syndrome (NAS)

Understanding Outcomes & Improving Long-term Care
**NAS: Notable Data Gaps**

**Available Data:**
- Geographic differences
- Hospital costs/length of stay

**??**
- Childhood outcomes
- Long-term care

**Key Data Elements?**

**Health IT solutions?**
First Step: Expert Input on Starter List of Data Elements

To support:

1. Existing/emerging clinical priorities
2. Development of IT tools for care delivery & quality improvement

Stakeholder input:

- Current barriers to data-sharing?
- How to build common / standardized data set?
- Data elements essential for EHR?
Leverage Existing Health IT Tools & Infrastructure

New NAS Data Elements Set: maternal-child dyad

Understanding Outcomes & Improving Long-term Care

Sept 27, 2018 Virtual Meeting of Experts
Oct 3, 2018 Virtual Meeting of Experts
Oct 17, 2018 National Convening on NAS
Winter 2019 Next steps: Stakeholder input

Standardized NAS Tracking System
Health IT-centered Approach
Organization of Data Elements:
NAS + in utero opioid exposure

Maternal
- Clinical
  - Infectious Disease
  - MAT Status
  - Prescribed Medications
  - OB history
- Non-Clinical
  - Demographics
  - Social History – Substance Use
  - Administrative - Insurance
  - Social Determinants

Child
- Clinical
  - Infant Birth History
  - + Neonatal Laboratory Tests
  - Prescribed Neonatal Medications
  - Non-Pharmacologic Care
  - Developmental Milestones
  - Medical Diagnoses
  - Psychiatric diagnoses
- Non-Clinical
  - Administrative - Insurance
  - Referral to Services
  - Utilization of Services
  - Social Determinants
IT Crosswalk of Proposed Data Elements

**Concept**
Hep C+

**Granular elements**
- Hep C+ Diagnosis
- Hep C+ Lab Analysis
- Hep C+ Treatment

**Code Set**
- ICD-10-CM
  - B18.2 Chronic viral hepatitis C
  - O98.42 Viral hepatitis complicating childbirth
- SNOMED CT – Viral hepatitis type C (disorder)

**Code Set**
- LOINC
  - 75886-2 - HCV antibody screening
    - Meaningful Use set

**Code Set**
- RXNorm
- NDC

**2015 Edition Certification Criteria**
- **Data Element**
  - § 170.315(a)(2) – CPOE laboratory orders only - no required standard
- **Interoperability**
  - § 170.315(b)(1) – Transitions of care
  - § 170.315(e)(1) – View, download, and transmit to 3rd party
  - § 170.315(f)(5) – Transmission to public health agencies – electronic case reporting
  - § 170.315(g)(8) – Application access - data category request
  - § 170.315(g)(9) – Application access – all data request
- **Public Health**
  - § 170.315(f)(5) – Transmission to public health agencies – electronic case reporting

**CCDA XML Path Language (XPath)**
- **Diagnosis**
  - /ClinicalDocument/component/structuredBody/component/section/entry/act/entryRelationship/observation/value/translation
- **Lab**
  - /ClinicalDocument/component/structuredBody/component/section/entry/organizer/component/observation/code
- **Medications**
  - /ClinicalDocument/component/structuredBody/component/section/entry/substanceAdministration/consumable/manufacturedProduct/manufacturedMaterial/code
Most Proposed Data Elements Supported by Current Certification Criteria

**Crosswalk Summary**

*Represented in structured code sets:*
- Diagnosis
- Procedures
- Labs
- Treatments

*Not represented in structured data:*
- May exist in narrative form

*Data that may require consent*
NAS Data Elements Set Next Steps:
Potential Applications

Understanding Outcomes & Improving Long-term Care

- Share guidance with states
- Clinical flowsheets
- Clinical dashboards
- Clinical decision support tools
- Clinical quality measures
- Data analytics & population health
NAS Data Elements Set Next Steps:

*Input & Feedback*

Comments/questions:

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