2020-02-26 SDOH-CC Connectathon Participant Meeting
Agenda

- Gravity Project Overview
  - SDOH-CC FHIR IG
  - Review Connectathon Testing Schedule
  - One-Page “Quick Tip” Sheet
- Participant Roles for Use Case 1
  - PMEHR
  - Screening App
  - Clinical Data R/R
- Security assumptions for Connectathon
- “Participant Option” for otherwise “Observers”
- Important Links and Information
- Next Steps Check List
Gravity Project

- The Gravity Project creates and maintains a consensus-building community to expand interoperable social determinants of health (SDOH) data exchange by using HL7® FHIR®.
- Collaboratively develop recommendations for how best to capture information for interoperable electronic health information exchange about clinical activities related to three SDOH domains:
  - food insecurity,
  - housing instability and homelessness, and
  - transportation access.
Gravity Project Use Cases

Use Case 1: Document SDOH Data in Conjunction with the Patient Encounter

Use Case 2: Document and Track SDOH Related Interventions to Completion

Use Case 3*: Gather and Aggregate SDOH Data for Uses Beyond the Point of Care

*Out of scope for 2020 cycle
Overview of Connectathon Schedule

- **2020-05-16** Gravity SDOH FHIR Connectathon San Antonio, TX
- **2020-05-28** MiHIN InterOpathon Detroit, MI
- **2020-09-15** Gravity SDOH FHIR Connectathon Baltimore, MD

- Assumption: Participants are committed Gravity Project community participants
- Each Connectathon Event is two-days long
Roles for Use Case 1

Gravity Project Use Case 1 “Quick Tips” One-Pager

SDOH-CC Community Review CI Build V0.0.2
Roles for Use Case 1: Actor Capabilities

This use case is relevant to how coded SDOH data are captured in a health care system and how data are shared with other systems. SDOH data are documented either as part of screening or assessment/diagnosis activities and may be the reason for ordering care activities. Client system initiates the transaction. Server system receives and responds to the transaction. FHIR workflow support (Task Resource) and $process-message operation support is required.

Messages/Transactions:
- Initiate Screening Task
- Return Screen
- Update Screening Task
- Communication Request
- Communication Response

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<thead>
<tr>
<th>PMEHR</th>
<th>Screening App</th>
<th>Clin Data R/R</th>
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<tbody>
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<td>Client</td>
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Roles for Use Case 1:

1. **Initiate Screening Task**
2. **Return Screen**
   - 2.1 Consent provided by patient
   - 2.2 Consent not provided by patient
3. **Update Screening Task**
4. **Communication Request**
   - 4.1 CDA document request
   - 4.2 FHIR composition resource request
   - 4.3 FHIR Screening questionnaire request
5. **Communication Response**
   - 5.1 CDA document response
   - 5.2 FHIR composition resource response
   - 5.3 FHIR Screening questionnaire response

XML and Json samples of technical system roles and information exchanges
# Practice Management/EHR (PMEHR) - gathers and shares SDOH information in a clinical care setting.

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<tr>
<th>Capability</th>
<th>FHIR API resources and operations</th>
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<tr>
<td>Initiate a screening task for a list of patients and a specific screening tool to be used [1]. Receive individual patient consent and screening information as it becomes available [2]. Associate received information with the patient’s chart. Receive a confirmation when a screening task has been completed [3].</td>
<td>[base]/$process-message Bundle MessageHeader, Task List, US Core Patient SDC Questionnaire SDC QuestionnaireResponse, Observation</td>
</tr>
<tr>
<td>Enable review of received screening information associated with a patient’s medical record. Enable the clinician to document an SDOH clinical finding. Permit clinicians to document an SDOH issue as a health concern or condition to be tracked on the patient’s problem list. Include a structured SDOH goal in the patient’s documentation to facilitate outcome tracking. Document planned or completed activities to address SDOH needs using structured data.</td>
<td>SDOHCC_Observation_FoodInsecurity_1 SDOHCC Condition_FoodInsecurity_1 SDOHCC Goal_FoodInsecurity_1 SDOHCC Procedure_FoodInsecurity_1</td>
</tr>
<tr>
<td>Receive a communication requesting SDOH information gathered during a patient encounter [4]. Share requested SDOH information as structured data or using a standard visit summary [5].</td>
<td>CDex CommunicationRequest CDex Communication C-CDA on FHIR Composition [base]/Composition/[id]/$document Or C-CDA document</td>
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</table>
**Screening App Actor** - receives and executes the screening task by interacting with the patient and the PMEHR.

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<td>Upon receiving request [1], initiate the requested screening task for the list of patients, using the supplied questionnaire. Interface with the user to gather the needed data sharing consent and collect the screening responses and compute the screening interpretation.</td>
<td>Task, List, US Core Patient, SDC Questionnaire</td>
</tr>
<tr>
<td>Return the consent and screening information to the screening task initiator [2]. If the patient does not consent to share screening information, return SDOH screening indicating patient preference not to participate [2.1].</td>
<td>Consent, SDC QuestionnaireResponse, Observation</td>
</tr>
<tr>
<td>Update the task initiator when the task is completed [3].</td>
<td>Task</td>
</tr>
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</table>
Clinical R/R Actor – any actor needing to request SDOH information gathered during a clinical encounter to support treatment, payment, or operations.

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<td>Initiate a communication request for SDOH information gathered during a clinical encounter [4.1], [4.2], [4.3].</td>
<td>CDex CommunicationRequest</td>
</tr>
<tr>
<td>Receive information that was requested [5.1], [5.2], [5.3].</td>
<td>CDex Communication</td>
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Use Case 1: Connectathon Track

• Three “scenes”:
  • Scene 1: PMEHR, Screening App Interaction
  • Scene 2: PMEHR documenting SDOH info during an encounter
  • Scene 3: Clin Data R/R, PMEHR Interaction

• [San Antonio Connecathon Track Page](#)
Security Assumptions for Connectathon, Testing

• Open connections are utilized for initial Connectathon testing.

• Optionally, System-level OAuth 2.0 authentication (grant_type: client_credentials) is tested for production use.

• Testing Scripts may be available from Aegis - TBD
Gaging Interest for “Observer” Participants

• Are there parties who want to participate as observers?
  • What does it mean to be a Connectathon Observer?

• Would there be interest in a fourth “patient participant” role?
Important Links and Planning Information

• Main Gravity Confluence Space
• Gravity FHIR IG Development
• Sign up for Connectation Participation
• Community Review SDOH-CC CI Build V0.0.2
  • V0.0.3 TBD March 13, 2020
• Gravity Project Use Case 1 “Quick Tips” One-Pager
• Use Case 1 “Track” Plan
Gravity SDOH FHIR Connectathon Participant Meetings Schedule

Wednesdays at 3:00pm ET

[Meeting Link]

United States (Toll Free): 1 877 309 2073
- One-touch: tel:+18773092073,,454082317#
tel:+18773092073,,454082317

Access Code: 454-082-317

- February 26 – Overview, Sign-up Logistics
- March 4 – PMEHR interactions with Screening App
- March 25 – PMEHR documenting SDOH information in a clinical care encounter
- April 1 – Clinical Data R/R interactions with PMEHR
- April 15 – Review of OAuth 2.0 implementation considerations; Options for the “patient participant” role; Touch Stone demo and CDex Test Script use
- April 29 – Participation Logistics—what to expect, Final Questions

All sessions are recorded.
Next Steps Checklist

• Determine the right participants from your organization, and what system role your technology will play
• **Sign-up to record your interest in participating in Connectathon** (and the right participants and system roles)
  • Sign-up to be a “patient participant” if not bringing a system
  • Confirm each participant is a **Gravity committed member**
• **Register for HL7 Work Group Meeting- Sat/Sun Connectathon**
• Mark you calendar to attend the **Connectathon Planning Sessions** (or allocate time to review recordings)
• Review the information on **Gravity Confluence Space**
• Send Questions to GravityProject@EMIAdvisors.com