TECHNICAL ISSUES

If you are experiencing difficulties connecting to audio, please try the following workarounds:

- Opt for computer audio and connect to the meeting via your computer (this requires logging onto Webex first)
- Dial in at least 5 minutes before the start time of the meeting
- If you get a busy signal or an “all circuits are busy” message, wait 60 seconds and try dialing in again

Please do not worry—we know you are trying to join the call and WE APPRECIATE YOU!

We will post materials as usual on Confluence within 2 business days so you can see and hear the entire call:
https://confluence.hl7.org/display/GRAV/The+Gravity+Project+Materials
Welcome

Thank you for joining the Gravity Project Workgroup meeting!

Due to the large number of attendees, participants are muted upon entry. Please remain muted to avoid background noise.

- This call is being recorded; recording will be available on the Gravity Confluence page following the meeting.

You are encouraged to actively participate in the discussion using the Webex chat feature (bottom right of the Webex Meeting window).

Please send chats to “Everyone.”
Gravity Project Participation

- If you have not already done so, we invite you to **officially join the project here**: [https://confluence.hl7.org/display/GRAV/Join+the+Gravity+Project](https://confluence.hl7.org/display/GRAV/Join+the+Gravity+Project)

- If you want to **check whether you have already signed up** or if others from your organization have signed up, please review the existing membership here: [https://confluence.hl7.org/pages/viewpage.action?pageId=46892669#JointheGravityProject-GravityProjectMembershipList](https://confluence.hl7.org/pages/viewpage.action?pageId=46892669#JointheGravityProject-GravityProjectMembershipList)

- For **all other Gravity Project information**, please visit: [https://confluence.hl7.org/display/GRAV/The+Gravity+Project](https://confluence.hl7.org/display/GRAV/The+Gravity+Project)
Project Founders and In-Kind Support To-Date

Robert Wood Johnson Foundation
The University of Vermont
Yale School of Nursing
siren
UCSF
AAMC
AAFP
BlueCross BlueShield Association
AmeriHealth Caritas
UnitedHealthcare
Highmark
The Office of the National Coordinator for Health Information Technology

https://confluence.hl7.org/display/GRAV/Gravity+Project+Sponsors
Gravity Project Sponsorship

- The Gravity Project is currently seeking additional sponsors for our 2020 operations
  - This is an opportunity to be a recognized contributor to our critical national work
- If you are interested in learning more about sponsoring opportunities, please send email to GravityProject@emiadvisors.net or visit https://confluence.hl7.org/display/GRAV/Gravity+Project+Sponsors
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<th>Presenter</th>
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<td>Lynette</td>
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<td>Project Roadmap and Upcoming Schedule</td>
<td>Lynette</td>
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<td>Housing Domain Approach and Concepts</td>
<td>Sarah, Housing Leads</td>
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<td>Housing Instability and Homelessness – Data Element Submission Status</td>
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<td>SDOH FHIR IG Updates</td>
<td>Lisa</td>
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<tr>
<td>Community Homework and Next Steps</td>
<td>Sarah</td>
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</tbody>
</table>

Please submit questions and comments using the Webex chat feature.
Meet the Housing Domain Leads

Megan Sandel, MD, MPH
Children’s Healthwatch

Richard Sheward, MPP
Children’s HealthWatch

Allison Bovell-Ammon, MDiv
Children’s Healthwatch
Announcements

- **New Gravity Project calendar invitation series issued through Google group**
  - New bi-weekly invitation called “Gravity Project Community Collaborative Meeting”
  - **Please delete invitation series if:**
    - It has a title other than the one above
    - Your calendar shows a meeting on March 26
  - You must be registered as a Gravity Project member to receive emails and meeting invitations
    - [https://confluence.hl7.org/display/GRAV/Join+the+Gravity+Project](https://confluence.hl7.org/display/GRAV/Join+the+Gravity+Project)
    - Please email GravityProject@emiadvisors.net if you have questions or issues with joining the Google group
Announcements, cont’d...

- The HIMSS 2020 Gravity Project: A Social Determinants of Health Coding Collaborative virtual meeting materials have been posted
  - Thank you to everyone who attended the virtual meeting—we wish we could have seen you all in person!
<table>
<thead>
<tr>
<th>Date</th>
<th>Gravity WG Meeting Tasks</th>
<th>Homework</th>
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<tr>
<td>02/13</td>
<td><em>Review:</em> Consensus Voting and Dispositions Results</td>
<td><em>Submit:</em> Housing Instability Data Elements</td>
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<tr>
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<td><em>Review:</em> Data Element Concept Submissions To-Date</td>
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<td><em>Overview:</em> Coding Work</td>
<td><em>Review:</em> Coding Systems</td>
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<td>03/19</td>
<td>Housing Instability Domain Kickoff</td>
<td><em>Submit:</em> Housing Instability Data Elements</td>
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<td><em>Deadline April 03</em></td>
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<td>04/16</td>
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<td><em>Submit</em> End-to-End Review Comments</td>
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<td><em>Review:</em> End-to-End Review Comments and Dispositions To-Date</td>
<td><em>Submit</em> End-to-End Review Comments</td>
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<td>SDOH FHIR IG and Connectathon Updates</td>
<td><em>Deadline May 29</em></td>
</tr>
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</table>
Gravity Timeline (High Level)

1. Collaborative Launch
   - Project Charter, Coding Systems Education

2. Use Case Development & Functional Requirements
   - Personas, Patient Story, Use Cases (X3)

   3a. Data Set Identification
       - Data Element Identification, Adjudication, and End-to-End Review

   4a. Coding Recommendations
       - Coding Gap Analysis & Recommendations for Coding Systems

   3b. Data Set Identification (Mar to June 20)

   4b. Coding Recommendations (June to Jul 20)

   3c. Data Set Identification (Aug to Oct 2020)

   4c. Coding Recommendations (Nov to Dec 20)

3. SDOH Domain Projects
   a) Food Insecurity
   b) Housing Instability
   c) Transportation Access

4. FHIR IG Development & Testing
   - FHIR Implementation Guide Development V.1.0 (Dec 19 to Aug 20)

   5a. FHIR IG Development
       - HL7 Connectathon Testing (Feb 20)
       - HL7 Connectathon Testing (May 20)
       - HL7 Connectathon Testing (Sept 20)

   5b. FHIR IG Ballot Reconciliation & Publication

Public Collaborative Kick-Off 02MAY2019

WE ARE HERE
Brainstorm: Using SDOH to Address Pandemics

- Questions to the community for feedback:
  - What are you seeing in your settings to make a case for the need for interoperable SDOH data?
  - How can we use/leverage SDOH data to address pandemics?
- Please share your thoughts via email to GravityProject@emiadvisors.com with subject line “pandemics”
Housing Domain Approach and Concepts
Housing Domain Context

- There is no agreed upon singular definition of circumstances that define housing instability/insecurity, homelessness, and other housing-related social risks

- There is no gold standard housing stability measure against which housing instability screening tools (e.g., the Housing Stability Vital Sign) can be compared

- Investments in future research to create robust standard testing of a diagnostic tool, is warranted
Stability: The Housing Iceberg

HOMELESS

HOUSING INSTABILITY

- behind on rent
- multiple moves

INEQUITABLE POLICIES
Homelessness Defined

- **U.S. Department of Housing and Urban Development**
  - Individual or family who lacks a fixed, regular, and adequate nighttime residence, including:
    - Living in a public or private place not meant for human habitation
    - Living in a shelter (including congregate shelter, transitional housing, hotel and motels)
    - Exiting an institution where they lived for 90 days or less and who resided in one of the aforementioned settings prior to entering that institution.

- **U.S. Department of Education (McKinney-Vento Act)**
  - Applies to homeless children and youth
  - Includes settings above AND applies to children and youths sharing housing of other persons due to loss of housing, economic hardship, or similar reasons.
Homelessness and Health

- Robust research across the life course linking homelessness and health including increased risk of:
  - adverse physical and mental health outcomes for children and adults
  - health care utilization and costs
  - infectious disease transmission
Housing Stability Vital Sign

- Among 22,234 families with children < 4yrs in 5 urban safety net hospitals, 34% had at least one adverse housing circumstance:
  - 27% behind on rent
  - 8% multiple moves
  - 12% history of homelessness
  - Each circumstance individually associated with adverse health and material hardship compared to stable housing
Little overlap among three adverse housing conditions
Outcomes of Unstable Housing with Health and Material Hardship Outcomes

Adjusted Odds Ratios

- Child fair/poor health
- Maternal fair/poor health
- Maternal depression
- Food insecurity
- Energy insecurity
- Health care trade-offs

Stable Housing, Behind on Rent, Multiple Moves, Homelessness
Limitations

- This research was conducted among low-income families with young children in five US cities – needs to be replicated among additional populations and/or the general population

- No gold standard is problematic

- While we examined the relationship between these circumstances and health/hardship outcomes, more work can/should be done
Other Housing Domains

- Unsafe or substandard housing
- Housing conditions including the presence of mold, lead, and pests are known health hazards.
- Neighborhood-level housing indicators
- Emerging research on concentrations of poverty, air quality, and other neighborhood-level factors on health points to the need to understand neighborhood indicators

- While these are important indicators, they are currently out of scope for this project. Future work may seek to address these domains.
Questions?

You are encouraged to actively participate in the discussion using the Webex chat feature (bottom right of the Webex Meeting window).

Please send all chats to Everyone.
Housing Instability and Homelessness – Data Element Submission Status
## Data Element Submissions To-Date

<table>
<thead>
<tr>
<th># Submissions Received</th>
<th>Screening Tool/Questions</th>
<th>Diagnosis/Needs</th>
<th>Goals</th>
<th>Interventions</th>
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<table>
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<tr>
<th># Submissions Returned</th>
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</table>
Data Submission Framework

- Screening tools
  - Housing Instability and Homelessness
  - (Inadequate housing tools will be stored for future development)
- Goal of care
- Assessments/Diagnoses
- Interventions
  - Key points here
    - Program Names and Definitions
    - Applicable Intervention Activities
How to Submit Housing Data Concepts

- Go to the Data Element Submission Confluence page and follow instructions
  - [https://confluence.hl7.org/display/GRAV/Data+Element+Submission](https://confluence.hl7.org/display/GRAV/Data+Element+Submission)
  - You can submit via spreadsheet or web tool

- Submissions are due by Friday, April 3
How to Review Housing Instability Adjudicated Data Submissions (Master List)

https://confluence.hl7.org/display/GRAV/Housing+Instability+and+Homelessness+Domain

- The Housing Master List with adjudicated data elements will be published on Confluence page as soon as it becomes available
  - Current submissions must undergo SME adjudication
  - The draft Master List will be posted on Confluence
Gravity Project Data Principles Updates
Data Use Principles – Gravity Project

- Community and Patient Principles for Electronic Health Information Exchange
  - Important Benefits for Individual Health
  - Important Benefits for Population Health
  - Inclusivity and Equality
  - Universal Design, Accessibility, and Interoperability
  - Privacy and Security
  - Preventing Misuse of Health Data
  - Partnership and HIT Literacy
  - Accountability
  - Enforcement

https://confluence.hl7.org/display/GRAV/Gravity+Data+Principles
Data Use Principles – Gravity Project

- Privacy and Security, continued in more detail …
  - Openness and Transparency
  - Collection Limitation
  - Purpose Specification and Minimization
  - Data Integrity and Quality
  - Use and Disclosure Limitation
  - Individual Participation and Control
  - Local Control

https://confluence.hl7.org/display/GRAV/Gravity+Data+Principles
Data Use Principles – Community Question

- On the last call, the Gravity community agreed that we should have a broad set of principles on data exchange and use.
  - Are these good data principles to adopt and use?
  - Email mark.savage@ucsf.edu and sarah.desilvey@med.uvm.edu with your feedback

https://confluence.hl7.org/display/GRAV/Gravity+Data+Principles
SDOH FHIR IG Updates
5.a.1 Community Engagement & FHIR IG Review

5.b.1 FHIR IG Development V0.0.1
5.b.2 FHIR IG Development V0.0.2
5.b.3 FHIR IG Development V0.0.3
5.b.4 FHIR IG Development V0.0.4
5.b.5 FHIR IG Development v0.1.0

5.a.2 FHIR IG Testing

HL7 Sydney Connectathon Testing (Feb 20): Use Case 1
HL7 San Antonio Connectathon Testing (May 16): Use Case 1, 2
HL7 Baltimore Connectathon Testing (Sept 19): Use Case 1, 2
HL7 Nevada Connectathon Testing (Jan 21): Use Case 1, 2,3
HL7 New Orleans. Connectathon Testing (May 21): Use Case 1, 2,3

FHIR IG STU Ballot & Reconciliation (Aug to Feb)

WE ARE HERE

FHIR IG STU Published V1.0.0
Gravity Use Cases

1. Document SDOH data in conjunction with the patient encounter.

2. Document and track SDOH related interventions to completion.

3. Gather and aggregate SDOH data for uses beyond the point of care (e.g., population health management, quality reporting, and risk adjustment/risk stratification).

https://confluence.hl7.org/display/GRAV/Gravity+Use+Case+Package
FHIR IG Updates

- V0.0.3 is now available – Quick Links Access
- [https://confluence.hl7.org/display/GRAV/Gravity+FHIR+IG](https://confluence.hl7.org/display/GRAV/Gravity+FHIR+IG)

Highlights:
- Focus is on Use Case #1
- Home Page – Notes to Reviewers
- TOC
- Personas, Patient Story, Use Cases
- Master List with Temporary Codes
- SDOH Coded Content
- Examples
SDOH-CC V0.0.3

- Preview of SDOH-CC IG
- Cover the highlighted areas
2020 Connectathons

- Sydney Connectathon – February 2020
  - Use Case #1
- San Antonio, TX HL7 Connectathon - May 16-17
  - Expect update next week – likely a virtual event
- Detroit MiHIN Interopathon – May 28-29
  - Will be offered as a virtual event
- Baltimore, MD HL7 Connectathon – Sept 19-20
  - Stay tuned
- [https://confluence.hl7.org/display/GRAV/Gravity+SDOH+FHIR+Connectathons](https://confluence.hl7.org/display/GRAV/Gravity+SDOH+FHIR+Connectathons)
Sydney Connectathon Testing

- Implementer Zero Demo
  - [https://www.youtube.com/watch?v=oYLseic5nY8&feature=youtu.be](https://www.youtube.com/watch?v=oYLseic5nY8&feature=youtu.be)
Next Steps

- SDOH-CC V0.0.4  - April 20th
  - Use Case #2 – Closed-Loop Referrals (BSeR)
    - Overview education, confirm data elements that need to be shared when doing a referral or getting feedback

- Connectathon Planning
  - Need committed participants – with declared roles
  - Special role for “observers” to be active participants

Sign Up:
https://confluence.hl7.org/display/GRAV/Connectathon+Participation+Sign-Up

Attend Prep Sessions:
https://confluence.hl7.org/display/GRAV/Gravity+SDOH+FHIR+Connectathon+Participant+Meetings

 Wednesdays 3:00pm-4:00pm ET March 25, April 1, April 15, April 29
Questions?

You are encouraged to actively participate in the discussion using the Webex chat feature (bottom right of the Webex Meeting window).

Please send all chats to Everyone.
Community Homework and Next Steps
Submit Housing Instability Data Element Concepts

- Please submit concepts via downloadable spreadsheet template or web tool
- For instructions, links and downloads go to Confluence: https://confluence.hl7.org/display/GRAV/Data+Element+Submission
- For questions, please send an email to GravityProject@emiadvisors.net
HMIS and Data Principles

- **HMIS**
  - Please email Sarah.DeSilvey@med.uvm.edu if you are interested in participating

- **Data Justice/Data Principles**
  - Please review example principles on Confluence
  - Write Mark and Sarah with thoughts
    - Mark Savage, SDOH Data Policy Lead
      - Mark.Savage@ucsf.edu
    - Sarah DeSilvey, SDOH Clinical Informatics Lead
      - Sarah.DeSilvey@med.uvm.edu
Review Coding Systems

- Five medical coding systems are expected to be used for Gravity Project data concepts
- For a brief overview video of each, please go to: https://confluence.hl7.org/display/GRAV/Educational+and+Instructional+Materials
Next Steps

- Sign up to join our **2020 Connectathon Events**:  
  https://confluence.hl7.org/display/GRAV/Connectathon+Testing  
  - Looking for implementers across the health ecosystem—EHRs, HIEs, PHRs, digital health platforms, community-based services and referral platforms, system integrators  
  - **Ideal to have both clinical and non-clinical participants**

- Join the Gravity Project as a Committed Member or Other Interested Party:  
  - https://confluence.hl7.org/display/GRAV/Join+the+Gravity+Project
Thank you for participating in this national consensus-building process.

Additional questions? Contact: gravityproject@emiadvisors.net