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.

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 Anti-Trust Practices

- Gravity Project participants have the responsibility to comply fully with federal and state antitrust laws.
- Individuals speaking or providing written communications shall refrain from any discussion which may provide the basis for an inference that they have agreed to take any action relating to prices, services, production and allocation of markets or any other matter having a market effect.
- Participants shall not discuss their pricing or others’ pricing or any term that might affect pricing or fees, such as costs, discounts, terms of sales or profit margins.
- Adherence to these guidelines involves not only avoidance of antitrust violations, but avoidance of behavior that might be so construed.
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

- 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:  

- For all other Gravity Project information, please visit:  
  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
LARNER COLLEGE OF MEDICINE
Yale School of Nursing
siren
UCSF
Blue Cross Blue Shield
Association
AMA
AmeriHealth Caritas
United Healthcare
Highmark
The Office of the National Coordinator for Health Information Technology
juxly
newwave
Humana
Children's Health Watch
Lyft
California Health Care Foundation

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 an email to GravityProject@emiadvisors.net or visit https://confluence.hl7.org/display/GRAV/Gravity+Project+Sponsors
We’re Hiring!
Comprehensive Project Manager

- If you are here, you already care about addressing social risk and good data
- We are looking for a new PM to help organize and integrate both of our project streams: terminology and FHIR IG
- Application is on the confluence!
- Or, email - hello@emiadvisors.net
The Gravity Project is on Social Media!

- The Gravity Project is now official on social media
- We will be using the social media platforms for relevant project and SDOH data integration related communications
- We invite you to follow us on LinkedIn and Twitter
  - LinkedIn: Gravity Project
  - Twitter: @thegavityproj
- Help us spread the word!
The HL7® FHIR Virtual Connectathon will occur from September 9th to 11th

The Gravity team is leading the **Gravity Project SDOH-CC Connectathon Track** (testing Gravity Use Case 1)
- Sign up to be a participant: [https://confluence.hl7.org/display/GRAV/Connectathon+Participation+Sign-Up](https://confluence.hl7.org/display/GRAV/Connectathon+Participation+Sign-Up)

The Gravity track will also collaborate with the care coordination track
- **Care Coordination Connectathon Track**: Testing use of FHIR across the care continuum-generating and sending a multiple chronic conditions care plan, SDOH screening, eReferral, and functional assessment.
ONC USCDI Submissions

- ONC announced the United States Core for Data Interoperability (USCDI) is now open for submissions through **October 9, 2020**.

- The Gravity Project invites the Gravity Community to submit new data elements and data classes for the USCDI Draft v2 through the ONC New Data Element and Class (ONDEC) submission system here: [https://www.healthit.gov/isa/ONDEC](https://www.healthit.gov/isa/ONDEC)

- The Gravity Project team will draft a formal letter on behalf of the Gravity Project. If you want to be added to this letter, please send your interest to: gravityproject@emiadvisors.net.
# Agenda

<table>
<thead>
<tr>
<th>Topic</th>
<th>Presenter</th>
</tr>
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<td>Announcements</td>
<td>Sarah</td>
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<tr>
<td>Project Roadmap and Upcoming Schedule</td>
<td>Sarah</td>
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<tr>
<td>End to End Review: Housing Instability and Homelessness Decisions</td>
<td>Sarah</td>
</tr>
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<td>Update: Inadequate Housing Data Concepts</td>
<td>Sarah</td>
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<tr>
<td>Community Homework and Next Steps</td>
<td>Sarah</td>
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<td>Overview: Gravity Terminology Development Process</td>
<td>For Review</td>
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Please submit questions and comments using the Webex chat feature.
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<thead>
<tr>
<th>Date</th>
<th>Gravity WG Meeting Tasks</th>
<th>Homework</th>
</tr>
</thead>
</table>
| 06/11  | *Phase I Review:* End-to-End Review of Housing Instability and Homelessness Data Elements | *Review and submit comments:* Housing Instability and Homelessness Master List  
|        | *Phase II:* Inadequate Housing Kickoff                                                 | *Submit:* Inadequate Housing Concepts         |
| 06/25  | *Phase I Review:* End-to-End Review of Housing Instability and Homelessness Data Elements | *Review and submit comments:* Housing Instability and Homelessness Master List  
|        | *Phase II:* Inadequate Housing Data Element Concepts                                    | *Submit:* Inadequate Housing Concepts         |
| 07/09  | *Phase I Review:* End-to-End Review of Housing Instability and Homelessness Data Elements | *Review and submit comments:* Housing Instability and Homelessness Master List  
|        | *Phase II:* Inadequate Housing Data Element Concepts                                    | *Submit:* Inadequate Housing Concepts         |
| 07/23  | *Phase I Review:* End-to-End Review of Housing Instability and Homelessness Data Elements | *Review and submit comments:* Housing Instability and Homelessness Master List  
|        | *Phase II:* Inadequate Housing Data Element Concepts                                    | *Submit:* Inadequate Housing Concepts         |
| 08/06  | *Phase I Review:* End-to-End Review of Housing Instability and Homelessness Data Elements | *Review and submit comments:* Housing Instability and Homelessness Master List  
|        | *Phase II:* Inadequate Housing Data Element Concepts                                    | *Submit:* Inadequate Housing Concepts         |
Gravity Timeline (tier 1 with code submissions)

1. Public Collaborative (Ongoing)
   - Launch MAY 2, 2019

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

   a) Data Set Identification
   - Food Insecurity
   - Housing Instability
   - Transportation Access
   - SDOH Domain Projects (3)

   b) Coding Recommendations
   - Coding Gap Analysis & Recommendations for Coding Systems
   - New Code Submissions & Publication in VSAC & ISA

   c) New Code Submissions & Publication in VSAC & ISA

   5.2a FHIR IG Development & Testing (5)
   - Implementation Guide Development V.1.0
   - Reference Implementation Development

5.2b FHIR IG Ballot Reconciliation & Publication
   - Feb 20
   - May 20
   - Sept 20
   - Jan 21

5.3 Connectathon Testing
   - YYYY

WE ARE HERE
Gravity Overview: Two Streams

SDOH Domains (Terminology)

1. Data Set Identification
2. Coding Gap Analysis & Recommendations
3. New Code Submissions
4. Publication in NLM VSAC & ONC ISA

Technical (FHIR)

1. Community & FHIR Coordination
2. FHIR IG Development
3. FHIR IG Testing
4. FHIR IG Ballot & Publication

CODED VALUE SETS
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.
End-to-End Review: Housing Instability and Homelessness
End to End Comments - Interventions

- Added “program” to name when appropriate

- Change “Health Risk Assessment” to
  - “Assessment of health risk”
    - “Assessment of social risk”

- Removed “Evaluation of progress toward goals to achieve housing security”
  - Duplicate with “Assessment of progress toward goals to achieve housing security”
## Diagnoses - Housing Instability and Homelessness

<table>
<thead>
<tr>
<th>Concepts</th>
<th>ICD-10-CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing Insecurity</td>
<td></td>
</tr>
<tr>
<td><strong>- Homelessness</strong></td>
<td></td>
</tr>
<tr>
<td>**  - Homelessness, sheltered**</td>
<td>Z59.01</td>
</tr>
<tr>
<td>**  - Homelessness, sheltered, doubled up**</td>
<td></td>
</tr>
<tr>
<td>**  - Homelessness, unsheltered**</td>
<td>Z59.02</td>
</tr>
<tr>
<td><strong>- Housing instability, housed</strong></td>
<td>Z59.81</td>
</tr>
<tr>
<td>**  - Housing instability, housed, behind on rent or mortgage**</td>
<td></td>
</tr>
<tr>
<td>**  - Housing instability, housed, history of multiple moves**</td>
<td></td>
</tr>
<tr>
<td>**  - Housing instability, housed, housing cost strain**</td>
<td></td>
</tr>
<tr>
<td>**  - Housing instability, housed, at risk of eviction**</td>
<td></td>
</tr>
<tr>
<td>**  - Housing instability, housed, with imminent risk of homelessness**</td>
<td>Z59.811</td>
</tr>
<tr>
<td>**  - Housing instability, housed, history of homelessness**</td>
<td>Z59.812</td>
</tr>
</tbody>
</table>
End to End Comments- Why and How

- We have spent months adding and winnowing the collective set together
- End to end review is a time to step back and consider the whole set and ask questions
  - Are there missing concepts?
  - Are there incorrect concepts that need to be changed?
  - Are there concepts that are unnecessary and should be removed?
How to Submit End-to-End Review Comments

- Download latest Housing Instability Master List: https://confluence.hl7.org/display/GRAV/Housing+Instability+and+Homelessness+Domain

- Email all comments regarding data elements to gravityproject@emiadvisors.net

- For data elements currently ON the Master List
  Include data element ID # and reason(s) you do not feel the element is appropriate for Housing Instability and Homelessness

- For data elements NOT ON the Master List
  • Submit the data element type (Screening, Diagnosis, Goal, Intervention)
  • Include a description for the data element you propose
  • For screening elements, attach a copy or link to the tool
  • **Comments regarding Intervention submissions due:** 8/06/2020
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.
Update: Inadequate Housing Data Concepts Submission Status
# Inadequate Housing Data Element Submissions Summary

**Total Submissions Received = 3**

<table>
<thead>
<tr>
<th>Screening Tool/ Questions</th>
<th>Diagnosis</th>
<th>Goal</th>
<th>Intervention</th>
</tr>
</thead>
<tbody>
<tr>
<td>13 Tools / 44 Questions</td>
<td>3</td>
<td>0</td>
<td>33</td>
</tr>
</tbody>
</table>

**Submissions Reviewed = 3**

<table>
<thead>
<tr>
<th>Disposition</th>
<th>Disposition</th>
<th>Disposition</th>
<th>Disposition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duplicates –</td>
<td>Duplicates –</td>
<td>Duplicate –0</td>
<td>Duplicates – Synonymous –</td>
</tr>
<tr>
<td>Park – 3 Tools/16 Questions</td>
<td>Park –</td>
<td>Park –</td>
<td>Park –</td>
</tr>
<tr>
<td>Hold – 4 Tools/18 Questions</td>
<td>Hold – 2</td>
<td>Hold</td>
<td>Hold – 4</td>
</tr>
</tbody>
</table>

**Total Submissions Returned* =**

* Adjudication completed and file returned to submitter with dispositions
# Inadequate Housing

<table>
<thead>
<tr>
<th>SCREENING</th>
<th>DIAGNOSES- ICD</th>
<th>Diagnoses- SNOMED</th>
<th>GOALS</th>
<th>INTERVENTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Narruzzuman (And adapted)</td>
<td>Z59.1 Inadequate Housing</td>
<td>Inadequate Housing (Subdomains)</td>
<td></td>
<td>NOW- General SDOH concepts carried over from previous domains</td>
</tr>
<tr>
<td>American Housing Survey</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHW</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Inadequate housing –
- **House**- An occupied housing unit that has moderate or severe physical problems (e.g., deficiencies in plumbing, heating, electricity, hallways, and upkeep) (HUD, 2010)

- **Person**- *(In process)*- Living within housing that has physical problems (deficiencies in plumbing, heating, electricity, hallways, and upkeep) *(affecting health)*
Inadequate Housing Diagnoses

Substandard housing
Housing does not meet jurisdiction habitability standards
(Z59.1 Inadequate housing)
- Substandard housing due to pests
- Substandard housing due to mold
- Substandard housing due to lead
- Substandard housing due to temperature control
- Substandard housing due to inability to store or prepare food
- Substandard housing due to lack of smoke detectors
- Substandard housing due to lack of potable water
- Substandard housing due to overcrowding
- ....
Data Submission Framework

• Screening tools
• Assessments/Diagnoses
• Goals of care
• Interventions
  ▪ Program Names and Definitions
  ▪ Provider/Practitioner Roles (e.g. community health navigator)
  ▪ Applicable Intervention Activities/Services
What kinds of data does the provider need to care for their patients?

the hospital need to study the effects of provider interventions?

the community-based org need to address the need of their clients?

the state need to plan for population health needs?

And what are the principles we need to consider to keep patients at the center?
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
Homework

- **General**
  - Catch up as needed on materials and recordings on Gravity Project Materials Confluence page

- **Housing Instability and Homelessness**
  - Review the Master and Screening Summary
    - [https://confluence.hl7.org/pages/viewpage.action?pageId=76157877#HousingInstabilityandHomelessnessDomain-CommunityHomework](https://confluence.hl7.org/pages/viewpage.action?pageId=76157877#HousingInstabilityandHomelessnessDomain-CommunityHomework)
    - Send comments

- **Inadequate Housing**
  - Submit new concepts
    - Excel
    - Email
    - [https://confluence.hl7.org/display/GRAV/Inadequate+Housing+Domain](https://confluence.hl7.org/display/GRAV/Inadequate+Housing+Domain)
Next Steps

- Join the Gravity Project as a Committed Member or Other Interested Party
  - [https://confluence.hl7.org/display/GRAV/Join+the+Gravity+Project](https://confluence.hl7.org/display/GRAV/Join+the+Gravity+Project)

- Sign up be a participant in the [Gravity Project SDOH-CC Connectathon Track](https://confluence.hl7.org/display/GRAV/Join+the+Gravity+Project) at the HL7® FHIR Virtual Connectathon occurring from September 9th to 11th
  - [https://confluence.hl7.org/display/GRAV/Join+the+Gravity+Project](https://confluence.hl7.org/display/GRAV/Join+the+Gravity+Project)
Back-Up
Overview: Gravity Terminology Development Process
Gravity Terminology Development Process

A. Community Terminology Development
B. Publication of ONC Gap Analysis and Recommendations Manuscript
C. New Code Submissions (LOINC, SNOMED, ICD-10-CM)
D. Development of Coded Value Sets
E. Value Set Publication
Community Terminology Development

A. Community Terminology Development

1. The anchor of every domain is the SIREN compendium of existing SDOH terminology – a study of what exists

2. Domain relevant terms are gleaned from the compendium and adjudicated against the literature

3. A collective brainstorming enriches the Master List
   1. Always published on Confluence

4. Concepts are added, refined, and defined, until we’ve a representative set aligned with literature and practice

5. Consensus Review and Voting
Gravity Overview: Two Streams

**SDOH Domains (Terminology)**
- Coding Gap Analysis & Recommendations
- Data Set Identification
- New Code Submissions
- Publication in NLM VSAC & ONC ISA

**Technical (FHIR)**
- FHIR IG Ballot & Publication
- FHIR IG Development
- Community & FHIR Coordination
- FHIR IG Testing

**CODED VALUE SETS**
## Adjudication Dispositions - Review

<table>
<thead>
<tr>
<th>Adjudication Status</th>
<th>Definition</th>
<th>Disposition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duplicate Data Element</td>
<td>Conceptually similar, same code(s), same answers for questions</td>
<td>Submitter will be added as contributor for the data element in the Master file</td>
</tr>
<tr>
<td>Add Data Element</td>
<td>In scope, fit for purpose, not to broad and not too narrow</td>
<td>Data element will be added to the Master file</td>
</tr>
<tr>
<td>Do Not Add - Park</td>
<td>Not in scope for this domain but may be useful for another Gravity Domain (housing insecurity, transportation)</td>
<td>Will be added to a Parking File for future review</td>
</tr>
<tr>
<td>Do Not Add</td>
<td>Not in scope for this domain or another Gravity domain, not well formed, not fit for purpose</td>
<td>Will be noted on adjudication file with reason</td>
</tr>
<tr>
<td>On-Hold (Info Needed)</td>
<td>Need additional clarification from submitter</td>
<td>Will be noted on adjudication file with additional information needed</td>
</tr>
<tr>
<td>Withdrawn</td>
<td>After discussion between submitter and SMEs, concept was withdrawn by submitter</td>
<td>Will be noted on adjudication file with reason</td>
</tr>
</tbody>
</table>
Thank you for participating in this national consensus-building process.

Additional questions? Contact: gravityproject@emiadvisors.net