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

AAFP
BlueCross BlueShield Association

AmeriHealth Caritas
UnitedHealthcare

The Office of the National Coordinator for Health Information Technology

juxly
newwave

Humana
Children’s HealthWatch

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
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!
HL7® FHIR Virtual Connectathon 25

- The [HL7® FHIR Virtual Connectathon](https://confluence.hl7.org/display/GRAV/Connectathon+Participation+Sign-Up) will occur from September 9th to 11th.
- The Gravity team is leading the [Gravity Project SDOH-CC Connectathon Track](https://confluence.hl7.org/display/GRAV/Connectathon+Participation+Sign-Up) (testing Gravity Use Case 1 and Use Case 3).
  - 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)
ONC USCDI Submissions

- ONC announced the United States Core for Data Interoperability (USCDI) is now open for submissions through **October 9, 2020**.  
  • See ONC’s announcement here:  

- 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

- 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.
New HHS SDOH COVID-19 Collaboration Site

- The Department of Health and Human Services (HHS) has announced a new website that will be focused on using SDOH data to fight COVID-19.

- The core objective of this collaboration site is to identify actions HHS can implement in the next three months that will help HHS:
  - Understand risk patterns and develop social and medical interventions.
  - Manage healthcare capacity before, during, and after COVID-19.
  - Help state and local governments collaborate with academia, private sector, healthcare providers, and civil society.
  - Address shortcomings in data collection and data sharing to fight the pandemic.

- View the HHS website here: https://sdoh4covid.crowdicity.com
ACL Challenge Grant is Now Accepting Applications

- Registration for Phase 1 (i.e. the letter of intent) is due December 14, 2020. The challenge.gov posting will be updated with this information.
  - To learn more about the grant requirements, refer to the July 28th webinar here: https://confluence.hl7.org/pages/viewpage.action?pageId=76153059#GravityProjectEvents-PastGravityProjectEventMaterials
# Agenda

<table>
<thead>
<tr>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Announcements</td>
<td>Sarah</td>
</tr>
<tr>
<td>Project Roadmap and Upcoming Schedule</td>
<td>Sarah</td>
</tr>
<tr>
<td>End to End Review: Housing Instability and Homelessness Decisions</td>
<td>Sarah</td>
</tr>
<tr>
<td>Announcement: Housing Instability and Homelessness Consensus Voting Preparation</td>
<td>Sarah</td>
</tr>
<tr>
<td>Update: Inadequate Housing Data Concepts</td>
<td>Sarah</td>
</tr>
<tr>
<td>Transportation pre-work</td>
<td>Sarah</td>
</tr>
<tr>
<td>Community Homework and Next Steps</td>
<td>Sarah</td>
</tr>
<tr>
<td>Overview: Gravity Terminology Development Process</td>
<td>For Review</td>
</tr>
</tbody>
</table>

Please submit questions and comments using the Webex chat feature.
## Gravity Project Schedule and Activities (August through October)

<table>
<thead>
<tr>
<th>Date</th>
<th>Gravity WG Meeting Tasks</th>
<th>Homework</th>
</tr>
</thead>
</table>
| 08/06 | **Housing Phase I Review:** End-to-End Review of Housing Instability and Homelessness Data Elements  
         **Housing Phase II:** Inadequate Housing Data Element Concepts                   | Review and submit comments: Housing Instability and Homelessness Master List  
         Submit: Inadequate Housing Concepts                                              |
| 08/20 | **Housing Phase II:** Inadequate Housing Data Elements Concepts  
         Transportation Pre-Work                                                          | Submit: Inadequate Housing Concepts  
         Submit: Transportation Concepts                                                  |
| 09/03 | **Housing Phase I:** Housing Instability and Homelessness Consensus Voting  
         **Housing Phase II:** Inadequate Housing Data Element Concepts  
         Transportation Pre-Work                                                          | Submit: Housing Instability and Homelessness Consensus Votes  
         Submit: Inadequate Housing Concepts  
         Submit: Transportation Concepts                                                  |
| 09/17 | **Housing Phase I:** Housing Instability and Homelessness Consensus Voting  
         **Housing Phase II:** Inadequate Housing Data Element Concepts  
         **Transportation Kickoff**                                                      | Submit: Housing Instability and Homelessness Consensus Votes  
         Submit: Inadequate Housing Concepts  
         Submit: Transportation Concepts                                                  |
| 10/01 | **Housing Phase II:** Inadequate Housing Data Element Concepts  
         **Transportation Phase I:** Transportation Concepts                              | Review and submit comments: Inadequate Housing Master List  
         Submit: Transportation Concepts                                                  |
Gravity Overview: Two Streams

SDOH Domains (Terminology)

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

Technical (FHIR)

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

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 Decisions
Housing Data Element Submitters
## Housing Instability and Homelessness Data Element Submissions Summary

### Total Submissions Received = 18

<table>
<thead>
<tr>
<th>Screening Tool/ Questions</th>
<th>Diagnosis</th>
<th>Goal</th>
<th>Intervention</th>
</tr>
</thead>
<tbody>
<tr>
<td>29 Tools / 360 Questions</td>
<td>36</td>
<td>19</td>
<td>95</td>
</tr>
</tbody>
</table>

### Submissions Reviewed = 15

<table>
<thead>
<tr>
<th>Disposition</th>
<th>Disposition</th>
<th>Disposition</th>
<th>Disposition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duplicates – 5 Tools/7 Questions</td>
<td>Duplicates – 1</td>
<td>Duplicate – 0</td>
<td>Duplicates – 4 Synonymous – 46</td>
</tr>
<tr>
<td>Synonymous 1 Tool/ 1 Question</td>
<td>Synonymous – 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Do Not Add – 9 Tools/171 Questions</td>
<td>Do Not Add – 11</td>
<td>Do Not Add – 1</td>
<td>Do Not Add – 11</td>
</tr>
<tr>
<td>Hold – 0 Tools/0 Questions</td>
<td>Hold – 0</td>
<td>Hold – 1</td>
<td>Hold – 2</td>
</tr>
</tbody>
</table>

### Total Submissions Returned* = 15

* Adjudication completed and file returned to submitter with dispositions
Intervention Build

- 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?

- *In order to keep track of the evolution of the set, all changes are now logged in a change log for reference*
# 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>Z59.0</td>
</tr>
<tr>
<td>- <strong>Homelessness, sheltered</strong></td>
<td>Z59.01</td>
</tr>
<tr>
<td>- Homelessness, sheltered, doubled up</td>
<td>Z59.02</td>
</tr>
<tr>
<td>- <strong>Homelessness, unsheltered</strong></td>
<td></td>
</tr>
<tr>
<td>- Housing instability, housed</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, <strong>severe housing cost burden</strong></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, <strong>homelessness in past 12 months</strong></td>
<td>Z59.812</td>
</tr>
</tbody>
</table>
## Intervention Build

<table>
<thead>
<tr>
<th>Gravity Term</th>
<th>Definitions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assistance/ Assisting</td>
<td>To give support or aid to; help</td>
</tr>
<tr>
<td>Coordination</td>
<td>Process of organizing activities and sharing information to improve effectiveness</td>
</tr>
<tr>
<td>Counseling</td>
<td>Psychosocial procedure that involves listening, reflecting, etc. to facilitate recognition of course of action / solution.</td>
</tr>
<tr>
<td>Education</td>
<td>Procedure that is synonymous with those activities such as teaching, demonstration, instruction, explanation, and advice that aim to increase knowledge and skills.</td>
</tr>
<tr>
<td>Evaluation of eligibility (for x)</td>
<td>Process of determining eligibility by evaluating evidence</td>
</tr>
<tr>
<td>Subtype of Evaluation</td>
<td></td>
</tr>
<tr>
<td>Evaluation/ Assessment</td>
<td>Determination of a value, conclusion, or inference by evaluating evidence.</td>
</tr>
<tr>
<td>Provision</td>
<td>To supply/make available for use</td>
</tr>
<tr>
<td>Referral</td>
<td>The act of clinicians/providers sending or directing a patient to professionals and/or programs for services (e.g., evaluation, treatment, aid, information, etc.)</td>
</tr>
</tbody>
</table>
End to End Comments- Interventions

- Added
  - Program Definitions
  - Increased activity and program pairings
  - Program Type- “Medical Respite”
  - Activity- Coordination of services to assist with maintaining housing security

- Changed
  - Health Risk Assessment > “Assessment of health risk” and “Assessment of social risk”
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.
Announcement: Housing Instability and Homelessness Consensus Voting Start Date
Why is Consensus Voting Important?

- Consensus relies on **due process** to allow equity and fairness.
- The consensus process supports open participation, a balance of interests, and an equal opportunity for all participants without any dominant positions.
- Consensus voting provides the opportunity to address all views and resolve any objections so an agreement can be reached.

Image source: [http://www.ontheagilepath.net/2015/05/efficient-group-decisions-using-the-7-levels-of-decision-making-an-agile-coach-must-have.html](http://www.ontheagilepath.net/2015/05/efficient-group-decisions-using-the-7-levels-of-decision-making-an-agile-coach-must-have.html)
Announcement: Housing Instability and Homelessness Consensus Voting

- Vote - 9/3/2020- 9/18/2020

- All committed members vote
  - Yes: A Yes vote does not necessarily mean that the deliverable is the ideal one from the perspective of the Committed Member, but that it is better to move forward than to block the deliverable.
  - Yes with Comment: If a consensus process attracts significant comments through Yes With Comment votes, it is expected that the comments will be addressed in a future revision of the deliverable.
  - Formal Objection: This vote must include comments indicating a path to address the objection in a way that meets the known concerns of other members of the project. A Formal Objection vote without such comments will be considered an Abstain vote.
  - Abstain: A member declined to vote.

- https://confluence.hl7.org/display/GRAV/Consensus+Process
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 = 4**

<table>
<thead>
<tr>
<th>Screening Tool/ Questions</th>
<th>Diagnosis</th>
<th>Goal</th>
<th>Intervention</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 Tools / 48 Questions</td>
<td>5</td>
<td>0</td>
<td>36</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>Add – 8 Tools/10 Questions</td>
<td>Add – 1</td>
<td>Add –</td>
<td>SNOMED Add – 23</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CPT/HCPCS – Add –</td>
</tr>
<tr>
<td>Duplicates –</td>
<td>Duplicates –</td>
<td>Duplicate –0</td>
<td>Duplicates –</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>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 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
Data Submission Framework

• **Interventions**
  - Program Names and Definitions
  - Provider/Practitioner Roles (e.g. community health navigator)
  - Applicable Intervention Activities/Services

• *We are still looking for further intervention concepts to address inadequate housing concerns*
Perspectives on Data - Brainstorming

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.
Transportation Pre-Work
Transportation (In)security Pre-Work

- Kickoff 9/17!!

- SMEs
  - **Alexandra King** - Community Transportation Association of America (CTAA)
  - **Jennifer Sisto Gall** - Lyft

- Prior to starting the transportation (in)security domain, please begin to submit transportation concepts so we can start with a robust set!
  - [https://confluence.hl7.org/display/GRAV/Transportation+Domain](https://confluence.hl7.org/display/GRAV/Transportation+Domain)

- Contact your transportation colleagues and bring them into the fold!
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)

- **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)

- **Transportation**
  - Submit new concepts
    - Excel
    - Email
    - [https://confluence.hl7.org/display/GRAV/Transportation+Domain](https://confluence.hl7.org/display/GRAV/Transportation+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** at the HL7® FHIR Virtual Connectathon occurring from September 9th to 11th
  - [https://www.hl7.org/events/fhir/connectathon/2020/09/](https://www.hl7.org/events/fhir/connectathon/2020/09/)
  - [https://confluence.hl7.org/display/GRAV/Connectathon+Participation+Sign-Up](https://confluence.hl7.org/display/GRAV/Connectathon+Participation+Sign-Up)
Thank you for participating in this national consensus-building process.

Additional questions? Contact: gravityproject@emiadvisors.net
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)

- Data Set Identification
- Coding Gap Analysis & Recommendation
- New Code Submissions

Technical (FHIR)

- FHIR IG Ballot & Publication
- FHIR IG Development
- Community & FHIR Coordination

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 too 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>