The Gravity Project

Material Hardship Review and Stress Kickoff
March 4th, 2021
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: 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
Project Founders, Grants, and In-Kind Support To-Date

Robert Wood Johnson Foundation
The University of Vermont
Yale School of Nursing

sirenUCSF
Kaiser Permanente
BlueCross BlueShield Association
Academy of Nutrition and Dietetics

AMA

AHRQ

AAMPCB

UnitedHealthcare

The Office of the National Coordinator for Health Information Technology

Humana

CHILDREN’S HealthWatch

Lyft

California Health Care Foundation

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

<table>
<thead>
<tr>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Announcements</td>
<td>Sarah</td>
</tr>
<tr>
<td>Project Schedule and Overview</td>
<td>Sarah</td>
</tr>
<tr>
<td>End to End Review: Material Hardship</td>
<td>Sarah</td>
</tr>
<tr>
<td>Stress KICKOFF</td>
<td>Sarah</td>
</tr>
<tr>
<td>Community Homework and Next Steps</td>
<td>Sarah</td>
</tr>
</tbody>
</table>

Please submit questions and comments using the Webex chat feature.
Announcements
Gravity Project Sponsorship

- The Gravity Project is currently seeking additional sponsors for our 2021 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
HL7 SDOH CC FHIR IG Public Meetings

- HL7 SDOH CC FHIR IG Public Meetings are scheduled Wednesdays from 3:00 to 4:00 pm ET
- See the HL7 meeting calendar here: http://www.hl7.org/concalls/CallDetails.aspx?concall=51839
ICD-10-CM Letters of Support

- The Gravity Project multi-domain ICD-10 submission is scheduled for review at next week's ICD-10 Coordination and Maintenance Virtual Meeting on March 10th at 10:20ET. The meeting agenda and zoom information will be posted here: https://www.cdc.gov/nchs/icd/icd10cm_maintenance.htm

- Thank you to all of you that have contributed to the development and review of this submission! We appreciate those who have already sent in letters of support. If you have not already had a chance to voice your support, it is not too late. Please reach out to nchsicd10cm@cdc.gov to express your support.

  - The Gravity Team has created an ICD-10-CM Form Letter for ease of submission. View the ICD-10-CM submission and Form Letter here: https://confluence.hl7.org/display/GRAV/ICD-10+Coding+Submissions
Gravity Project Multi-Domain Consensus Voting Results

- The Gravity Project has reached consensus on our representative data sets for Inadequate Housing, Transportation Insecurity, Financial Strain, Education, Unemployment, and Veteran Status!
- Thank you for supporting the Gravity Project!
ONC Published LEAP in Health IT SEN

- ONC published a special emphasis notice (SEN) under the Leading Edge Acceleration Projects (LEAP) in Health IT notice of funding opportunity. The goal of the SEN is to advance health IT standards and tools to improve social determinants of health data exchange and research, and to develop tools for making electronic health record (EHR) data research and artificial intelligence (AI)-ready. ONC seeks applications with specific aims to address one of those areas of interest.
- ONC will be conducting an information session webinar on March 9th at 1:00pm EST. Register for the webinar here: https://www.zoomgov.com/webinar/register/WN_XghIibXiQ_G1Phwk9qd0fQ
- Learn more about the LEAP in Health IT here: https://www.healthit.gov/topic/onc-funding-opportunities/leading-edge-acceleration-projects-leap-health-information
ONC 2021 Annual Meeting March 29-30

- The all-virtual ONC 2021 Annual Meeting will be held March 29th-30th from 12:00pm – 5:00pm EST. Join over 1,000 health IT partners online for two afternoons of plenary and breakout sessions on a variety of topics at the forefront of health IT.
- Register here: https://www.healthit.gov/news/events/2021-onc-annual-meeting
SIREN Coffee & Science

- Join SIREN Coffee & Science, a new virtual conversation series that SIREN is launching to provide a forum for experts to discuss hot topics in health and social care integration. The series of 30-minute live events started on January 22nd and will run through June. The events will also be disseminated on SIREN’s new podcast channel, where an introductory episode is already available!
  - Join here: [https://sirencoffee.ucsf.edu/news-events/siren-coffee-science](https://sirencoffee.ucsf.edu/news-events/siren-coffee-science)
  - View podcast channel here: [https://share.transistor.fm/s/d0fdaf98](https://share.transistor.fm/s/d0fdaf98)

- March 5: “Building Accountability for Social Risk Screening into State Medicaid Programs” – Sarah DeSilvey, DNP, FNP-C and [Michael Bailit](https://share.transistor.fm/s/d0fdaf98), MBA
Project Schedule and Overview
Gravity Overview: Integration of Two Streams

Terminology: SDOH Domains
- Coding Gap Analysis & Recommendations
- Data Set Identification
- Publication in NLM VSAC & ONC ISA

Technical (FHIR)
- New Code Submissions
- FHIR IG Testing
- FHIR IG Development
- Community & FHIR Coordination
- FHIR IG Ballot & Publication

CODED VALUE SETS

HL7 International

17
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
The Gravity Project...

**Goal** - Develop consensus-driven data standards to support use and exchange of social determinants of health (SDOH) data within the health care sectors and between the health care sector and other sectors.
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.
Terminology
Gravity Project Schedule and Activities (Through February 18th)

<table>
<thead>
<tr>
<th>Date</th>
<th>Gravity WG Meeting Tasks</th>
<th>Homework</th>
</tr>
</thead>
</table>
| 2/04 | **Financial Strain and Transportation Insecurity**: All Activity End to End Review  
      **Material Hardship**: Screening and Diagnoses End to End Review | *Review*: Transportation Insecurity, Financial Strain  
                  *Submit*: Material Hardship, Screening and Diagnoses |
| 2/18 | **Multi-Domain**: *Consensus Vote*  
      **Material Hardship**: Screening and Diagnoses End to End Review | *Submit*: Material Hardship, Screening and Diagnoses |
| 3/04 | **Stress KICKOFF**  
      **Material Hardship**: Screening and Diagnoses End to End Review | *Submit*: Material Hardship and Stress Screening and Diagnoses |
| 3/18 | **Material Hardship**: Screening and Diagnoses End to End Review  
      **Stress**: Screening and Diagnosis Concepts | *Submit*: Material Hardship and Stress Screening and Diagnoses |
Community Terminology Development
Identify

- The identify stage is defined by collaborative engagement to ensure we define what data is required, and how to place it within the logical constraints of the evidence and the taxonomies

- Ordering the sea
Financial Insecurity and Material Hardship - Definition

- Financial Insecurity - A state of being wherein a person has difficulty fully meeting current and/or ongoing financial obligations and/or does not feel secure in their financial future.

- Material Hardship - the lack of specific socially perceived basic physical necessities.
Financial Insecurity and Material Hardship

- Unable to get childcare
- Unable to get utilities
- Unable to get clothing
Financial Insecurity and Material Hardship, the Spectrum
Identify: Material Hardship Screening Tools and Subdomains

- Across the hardship tools, some assess cause, some do not
- **Broad**
  - PRAPARE- In the past year, have you or any family members you live with been **unable** to get any of the following when it was **really needed**? Check all that apply: Food, Utilities, Clothing, Childcare, Medicine, Phone

- **Financial**
  - Health Leads- In the past 12 months has the electric, gas, oil, or water company threatened to shut off services in your home?
  - Well Rx- Do you have trouble paying for your gas or electricity bills?
Identify: Material Hardship Diagnoses

- Material hardship
  - Unable to obtain adequate clothing
    - Unable to obtain adequate clothing, because of limited financial resources
  - Unable to obtain adequate utilities
    - Unable to obtain adequate clothing, because of limited financial resources
  - Unable to obtain adequate internet
    - Unable to obtain adequate internet, because of limited financial resources
  - Unable to obtain adequate childcare
    - Unable to obtain adequate childcare, because of limited financial resources
  - Unable to obtain medicine
    - Unable to obtain medicine, because of limited financial resources

One of the things we have to sort in the Gravity work is the primary experience. Although related to financial insecurity, the primary experience here is the absence of the necessity...
Questions?

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Stress KICKOFF

Identify
Stress Kickoff

- Stress and Health Disparities: Contexts, Mechanisms, and Interventions Among Racial/Ethnic Minority and Low Socioeconomic Status Populations (APA)

- Stress Definitions
  - Stress occurs when individuals experience demands or threats without sufficient resources to meet these demands or mitigate the threats (Lazarus & Folkman, 1984).
  - Minority stress is the relationship between minority and dominant values and resultant conflict with the social environment experienced by minority group members (Meyer, 1995; Mirowsky & Ross, 1989; Pearlin, 1989)
Stress Kickoff

**Exposures**
- Stigma and Bias (Minority Stress)
- Financial Strain
- Transitions
- Caregiving
- Relationships and their absence
- Trauma
- Environment

**Responses**
- Psychological
  - “I feel stressed”
- Physiological

Juster et al (2017)
Stress Kickoff: Tools

Perceived Stress Scale

1. In the last month, how often have you been upset because of something that happened unexpectedly?
2. In the last month, how often have you felt that you were unable to control the important things in your life?
3. In the last month, how often have you felt nervous and “stressed”?
4. In the last month, how often have you felt confident about your ability to handle your personal problems?
5. In the last month, how often have you felt that things were going your way?
6. In the last month, how often have you found that you could not cope with all the things that you had to do?
7. In the last month, how often have you been able to control irritations in your life?
8. In the last month, how often have you felt that you were on top of things?
9. In the last month, how often have you been angered because of things that were outside of your control?
10. In the last month, how often have you felt difficulties were piling up so high that you could not overcome them?
Stress Kickoff: Tools

PRAPARE
Stress is when someone feels tense, nervous, anxious, or can’t sleep at night because their mind is troubled. How stressed are you?

Finnish Institute of Occupational Health, Occupational Stress Questionnaire
Stress means a situation in which a person feels tense, restless, nervous, or anxious, or is unable to sleep at night because his or her mind is troubled all the time. Do you feel this kind of stress these days?
<table>
<thead>
<tr>
<th>ICD-10-CM Code</th>
<th>Description</th>
<th>SNOMED Child Code</th>
<th><strong>MAPPING</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>F43.2</td>
<td>Adjustment disorders</td>
<td>F43.20</td>
<td>Adjustment disorder, unspecified</td>
</tr>
<tr>
<td>F43.9</td>
<td>Reaction to severe stress, unspecified</td>
<td>73595000 Stress</td>
<td>166491000119100 Stress due to family tension</td>
</tr>
<tr>
<td>NO ICD-10-CM Mapping for SNOMED Child Codes</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Z56.3</td>
<td>Stressful work schedule</td>
<td>276074009 Stress at work</td>
<td>276075005 Work worries</td>
</tr>
<tr>
<td>Z56.6</td>
<td>Other physical and mental strain related to work</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z63.7</td>
<td>Other stressful life events affecting family and household</td>
<td>105485001 Stress at home</td>
<td></td>
</tr>
<tr>
<td>Z63.8</td>
<td>Other specified problems related to primary support group</td>
<td>73595000 Stress</td>
<td>37240003 Ineffective family coping: compromised</td>
</tr>
<tr>
<td>Z73.2</td>
<td>Lack of relaxation and leisure</td>
<td>73595000 Stress</td>
<td>166491000119100 Stress due to family tension</td>
</tr>
<tr>
<td>Z73.3</td>
<td>Stress, not elsewhere classified</td>
<td>23085004 Increased stress</td>
<td>129891007 Caregiver role strain</td>
</tr>
<tr>
<td>Z73.8</td>
<td>Other problems related to life management difficulty</td>
<td>18232000 Difficulty coping</td>
<td>47695004 Inability to cope</td>
</tr>
<tr>
<td>Z73.89</td>
<td>Other problems related to life management difficulty</td>
<td>422761005 Difficulty managing stress</td>
<td>442347009 Emotional stress</td>
</tr>
<tr>
<td></td>
<td></td>
<td>55539008 Physical stress</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>424582000 Stress overload</td>
<td></td>
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</tbody>
</table>
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Identify: Goals Consensus
Goals Consensus

- One of the things we are exploring is the relationship between goals and protective factors...
- If goals are “a desired state” can we build protective factors for use, as is appropriate, in global goal setting?

- Social determinants are not all risk!
- However, the opposite of a risk is not always the presence of a protective factor!
Social Risks, Action Steps, Goals, and Protective Factors

The Inadequate Housing Example

- Problem: Substandard Housing, due inability to prepare or store food
- Actionable/Measurable Goals: Fix Stove, with repair Voucher
- Meta Goals/Protective Factors: Housing has resources for food preparation and storage
Review: Inadequate Housing Goals

Problems
- Inadequate housing
- Substandard housing
  - Substandard housing due to infestation
  - Substandard housing due to mold
  - Substandard housing due to lead
  - Substandard housing due to poor temperature control
  - Substandard housing due to inability to store or prepare food
  - Substandard housing due to lack of safety equipment
  - Substandard housing due to lack of adequate plumbing
  - Substandard housing due to overcrowding
  - Substandard housing due to internal environmental hazard
  - Substandard housing due to asbestos
  - Substandard housing due to structural insufficiency
  - Substandard housing, does not meet inhabitant’s functional needs
  - Substandard housing, at risk of code violation

Positives/Goals
- Adequate Housing
  - Housing meets standards
    - Housing meets standards for pests
    - Housing meets standards for mold
    - Housing meets standards for lead
    - Housing meets standards for temperature control
    - Housing meets standards for food storage and preparation
    - Housing meets standards for safety equipment
    - Housing meets standards for plumbing
    - Housing meets occupancy standards
    - Housing meets standards for internal environmental hazards
    - Housing meets standards for asbestos
    - Housing meets standards for structural sufficiency
    - Housing meets inhabitants’ functional needs
    - Housing without risk of code violation
  - Housing has been remediated
### Problems
- Transportation insecurity, inability to access health and social needs
- Transportation insecurity, available transportation does not meet an individual’s functional and cognitive (social/psychosocial) needs
- Transportation insecurity, excessive time spent travelling
- Transportation insecurity, unable to afford transportation
- Transportation insecurity, distance to destination limits available transportation options

### Positives
- Transportation security, able to access health and social needs
- Transportation security, transportation meets individual’s functional and cognitive needs
- Transportation security, “reasonable” travel time
- Transportation security, affordable transportation
- Transportation security, adequate transportation options
### Review: Financial Insecurity Goals

<table>
<thead>
<tr>
<th>Problems</th>
<th>Positives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Financial Insecurity</td>
<td>Financial Security</td>
</tr>
<tr>
<td>• Financial Strain</td>
<td></td>
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<tr>
<td>• Medical Cost Burden</td>
<td></td>
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<tr>
<td>• Debt</td>
<td></td>
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<tr>
<td>• Bankruptcy</td>
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</tbody>
</table>
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Community Homework and Next Steps
Homework

- **General**
  - Catch up as needed on materials and recordings on Gravity Project Materials Confluence page
    https://confluence.hl7.org/display/GRAV/The+Gravity+Project+Materials

- **Financial Strain**
  - Submit Material Hardship screening and diagnosis
    https://confluence.hl7.org/display/GRAV/Financial+Strain

- **Stress**
  - Submit Stress screening and diagnosis
    https://confluence.hl7.org/display/GRAV/Stress
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)
Thank you for participating in this national consensus-building process.

Additional questions? Contact: gravityproject@emiadvisors.net

LinkedIn: Gravity Project
Twitter: @thegavityproj