Consensus-driven Standards on Social Determinants of Health

Health Literacy, Health Insurance Status & Medical Cost Burden Concepts
Mar 31, 2022
Welcome

Thank you for joining the Gravity Project Community 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, Grants, and In-Kind Support To-Date

<table>
<thead>
<tr>
<th>PROVIDER</th>
<th>SOCIAL SERVICES</th>
<th>PAYER</th>
<th>TECHNOLOGY VENDOR</th>
<th>GOVERNMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAFP</td>
<td>Children's HealthWatch</td>
<td>Humana</td>
<td>CyncHealth</td>
<td>CMS</td>
</tr>
<tr>
<td>Kaiser Permanente</td>
<td>Robert Wood Johnson Foundation</td>
<td>Arkansas</td>
<td>newwave</td>
<td>ACL</td>
</tr>
<tr>
<td>Yale School of Nursing</td>
<td>sirenUCSF</td>
<td>AmeriHealth Caritas</td>
<td>SAFFRON</td>
<td>Administration for Community Living</td>
</tr>
<tr>
<td>Highmark</td>
<td>lyft</td>
<td>BlueCross BlueShield Association</td>
<td>ATA</td>
<td>AHRQ</td>
</tr>
<tr>
<td>The University of Vermont</td>
<td>ICMA</td>
<td>NC</td>
<td>juxly</td>
<td>CDC</td>
</tr>
<tr>
<td>Lerner College of Medicine</td>
<td>California Health Care Foundation</td>
<td>UnitedHealthcare</td>
<td>interoperability institute</td>
<td></td>
</tr>
<tr>
<td>Health Care That Works for All Californians</td>
<td>Academy of Nutrition and Dietetics</td>
<td>blue California</td>
<td>ontada</td>
<td></td>
</tr>
<tr>
<td>Phone Right</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

- The Gravity Project is currently seeking additional sponsors for our 2022 operations.
  - We are not an entity and rely on our sponsors for sustainability.
  - 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
## Agenda

<table>
<thead>
<tr>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Announcements</td>
<td>Sarah / Evelyn</td>
</tr>
<tr>
<td>Project Schedule and Overview</td>
<td>Sarah</td>
</tr>
<tr>
<td>Health Literacy, Health Insurance Status &amp; Medical Cost</td>
<td>Sarah / Linda</td>
</tr>
<tr>
<td>Burden Concepts</td>
<td></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
Announcements

• Gravity Session at Health Datapalooza, April 4th.
• Join the CDC’s SDOH Public Health Use Case Workgroup, Kickoff April 20th.
• SIREN Call for Proposals for Racial Health Equity in Social Care Meeting in Fall 2022, Due April 22nd.
• eHealth Exchange Innovation Grant, Intent to Apply due April 29th.

See more details regarding Gravity’s announcements here: https://confluence.hl7.org/pages/viewpage.action?pageId=91996855 #TheGravityProject-Announcements
Call for EC Nominations!

• On February 23, 2022, Gravity Project requested nominations to serve on the Gravity Executive Committee! Thank you to those who submitted nominations. We are still seeking nominations to fill two specific vacancies:
  • Patient/Consumer Advocate (3 year term)
  • Provider (1 year term)

• Nominations are due on or before April 1, 2022, 3:00 PM ET. Please send nominations via a cover letter and a resume to GravityProject@emiadvisors.net, subject line: Gravity Executive Committee Nomination.

• See more details on our announcements page here: https://confluence.hl7.org/pages/viewpage.action?pageId=91996855#TheGravityProject-Announcements
Call for Participation!

• We are currently seeking entities to participate in testing the Gravity defined coded concepts and/or the HL7 SDOH FHIR IG STU1 and/or STU2.

• Gravity Project Pilots Affinity Group Confluence page will be published by the end of March 2022.

• We will be standing up a Pilots Affinity Group to convene participating sites via a monthly webinar starting in April 2022.

• We are seeking entities that will serve in one or more of the following roles for testing:
  • Referral Source (system sending referral request).
  • Care Coordination Platform (system managing referrals and ensuring they are executed by appropriate service delivery organizations).
  • Referral Recipient (system receiving referral request and exposing FHIR restful services).
  • Referral Recipient Light (query for tasks on initiating Referral Source or Coordination Platform).

• Please submit your Pilot interest to gravityproject@emiadvisors.net
Open invitation

We want your feedback on the technical specs Gravity is developing—whichever pieces (or all of it) are of interest to you.

Join our weekly Wed meetings
Submit specification feedback here: http://hl7.org/fhir-issues
Project Schedule and Overview
Gravity 2022 Roadmap

<table>
<thead>
<tr>
<th>JAN</th>
<th>FEB</th>
<th>MAR</th>
<th>APR</th>
<th>MAY</th>
<th>JUN</th>
<th>JUL</th>
<th>AUG</th>
<th>SEP</th>
<th>OCT</th>
<th>NOV</th>
<th>DEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Build and Dissemination</td>
<td>Build and Dissemination</td>
<td>Build, Dissemination and Evaluation</td>
<td>Build, Dissemination and Evaluation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Terminology</td>
<td>Terminology</td>
<td>Terminology</td>
<td>Terminology</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health Literacy</td>
<td>Health Insurance Status</td>
<td>Medical Cost Burden</td>
<td>To Be Determined</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>To Be Determined</td>
<td>To Be Determined</td>
<td>To Be Determined</td>
<td>To Be Determined</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gravity FHIR IG STU2 Ballot</td>
<td>FHIR IG STU2 Ballot Reconciliation</td>
<td>FHIR IG STU2 Updates</td>
<td>FHIR IG STU2 Publication</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HL7 FHIR Connectathons</td>
<td>Reference Implementation Update</td>
<td>FHIR IG STU2 Updates based on Connectathon &amp; Pilot Testing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Key**
- ▲ LOINC Code Release (FEB/AUG)
- ★ SNOMED Code Release (MAR/SEP)
- ◆ ICD-10 Code Release (APR/OCT)
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
Terminology Build Updates and Action Steps
Terminology Build Updates- ICD-10-CM

• ICD10-CM Coordination & Maintenance Committee
  • Comments on the Gravity requested terms must be submitted no later than May 9th, 2022 at nchsicd10CM@cdc.gov.
  • We encourage everyone to submit comments in support of our request. You may submit your own comments or use the form letter provided here.
  • A copy of the final Diagnosis Agenda containing the Gravity submission (starting on page 81) can be downloaded here.
Terminology Identification
## Terminology Schedule and Activities

<table>
<thead>
<tr>
<th>Date</th>
<th>Gravity WG Meeting Tasks</th>
<th>WG Homework</th>
</tr>
</thead>
<tbody>
<tr>
<td>03/17</td>
<td>Health Literacy, Medical Cost Burden &amp; Health Insurance Status: <strong>Concepts</strong></td>
<td><strong>Submit:</strong> Health Literacy, Medical Cost Burden &amp; Health Insurance Status Concepts</td>
</tr>
<tr>
<td>03/31</td>
<td>Health Literacy, Medical Cost Burden &amp; Health Insurance Status: <strong>Concepts</strong></td>
<td><strong>Submit:</strong> Health Literacy, Medical Cost Burden &amp; Health Insurance Status Concepts</td>
</tr>
<tr>
<td>04/14</td>
<td>Health Literacy: <strong>End-to-End Review</strong></td>
<td><strong>Review:</strong> Health Literacy Concepts</td>
</tr>
<tr>
<td></td>
<td>Medical Cost Burden and Health Insurance Status: <strong>Concepts</strong></td>
<td></td>
</tr>
<tr>
<td>04/28</td>
<td>Health Literacy, Medical Cost Burden &amp; Health Insurance Status: <strong>End-to-End Review</strong></td>
<td><strong>Review:</strong> Health Literacy, Medical Cost Burden &amp; Health Insurance Status Concepts</td>
</tr>
<tr>
<td>05/12</td>
<td><strong>Health Literacy Consensus Voting</strong></td>
<td><strong>Submit:</strong> Health Literacy Consensus Votes</td>
</tr>
<tr>
<td></td>
<td>Medical Cost Burden &amp; Health Insurance Status: <strong>End-to-End Review</strong></td>
<td></td>
</tr>
<tr>
<td>05/26</td>
<td><strong>Medical Cost Burden &amp; Health Insurance Consensus Voting</strong></td>
<td></td>
</tr>
</tbody>
</table>
Community Terminology Development

We are here!
Health Literacy Concepts
Health Literacy Definitions

Personal Health Literacy is the degree to which individuals have the ability to find, understand, and use information and services to inform health-related decisions and actions for themselves and others.

Source: U.S. Department of Health and Human Services. Healthy People 2030 Health Literacy Definitions. 2020; Institute of Medicine, 2014
Organizational Health Literacy is the degree to which organizations equitably enable individuals to find, understand, and use information and services to inform health-related decisions and actions for themselves and others.


Organizational concerns must have organizational interventions and organizational solutions
In our survey of the BU Health Literacy Toolshed, and our review of the literature, we have come across many comprehensive personal health literacy tools of research quality. But these are difficult to adapt to quick clinical or community implementation (complexity, time.) This confounds our purpose. Please send us your brief screening tools for personal health literacy… pretty please.
Health Literacy- Screening Tools

Changes

• **Added**
  
  • Short Assessment of Health Literacy (SAHL-E and SAHL-S) and Rapid Estimate of Adult Literacy in Medicine—Short Form (REALM-SF) based on review of AHRQ references
  
  • Added Health Leads Health Literacy elements
    
    • Recommended question (already in LOINC)
    
    • And Health Leads alternate questions also from Chew et al (precursor of STOFHLA)
Health Literacy Diagnosis Codes

SNOMED-CT

- Difficulty demonstrating health literacy

ICD-10 (ICD-11)

- Other problems related to education and literacy
- Problem with health literacy (ICD-11)
- Problem with health literacy (ICD-10)

Requires translation services to support health literacy
Requires interpretation services to support health literacy
Requires digital education to support health literacy
Requires plain language interventions to support health literacy

Bold = existing term

Focus on Person
Focus on Organization

Representing Organizational Responsibilities at the Person-Level
Health Literacy Goal

• Able to demonstrate health literacy (finding)

• Has access to health information in a form the patient can consume

Bold = existing term
Health Literacy Interventions

Adult Learning Center
Basic Skills Training Program
Digital Literacy Program
English as a Second Language Program (ESL)
Peer Support Program
Peer Support Specialist
Library Educational Services
Tutoring Programs
Area Agency on Aging
Community Action Agency program

Document Translation Services
State Health Literacy Program
The Heal Program
Telephone and Relay Services
Language Interpretation Services
Reading Services for People With Disabilities
Gravity Data Decisions

• Accounting for screeners that do not include those who are not fluent English speakers – Bias

• Narrowing focus of screeners and ensuing diagnoses > simplicity

• Addressing organizational literacy assessments and interventions in our model

• Addressing digital health literacy within digital literacy
  • We might be changing our course here… TBD
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.
Health Insurance Status Concepts
Health Insurance Status Definitions

• Documentation of presence and type of insurance.
  • In line with federal survey approaches

  • “Are you covered by any kind of health insurance or some other kind of health care plan?”
    • Yes, No, Refused, Don’t Know
  • “What kinds of health insurance or health care coverage do you have?”
    • Private health insurance, Medicare, Medicare supplement, Medicaid, Children's Health Insurance Program or CHIP, military related health care including TRICARE, CHAMPUS, VA health care and CHAMP-VA, Indian Health Service, a state-sponsored health plan, or another government program?
# Health Insurance Status – Diagnoses

<table>
<thead>
<tr>
<th>SNOMED CT</th>
<th>ICD-10-CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uninsured medical expenses</td>
<td>Insufficient social insurance and welfare support</td>
</tr>
<tr>
<td>Lack of health insurance</td>
<td>above not included in master but shown for reference</td>
</tr>
</tbody>
</table>
# Health Insurance Status – Goals

## SNOMED CT

<table>
<thead>
<tr>
<th>Health Insurance Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient has private medical insurance</td>
</tr>
<tr>
<td>Employee group health insurance coverage</td>
</tr>
<tr>
<td>Department of veteran's affairs health coverage</td>
</tr>
<tr>
<td>Medicaid coverage</td>
</tr>
<tr>
<td>Medicare advantage coverage</td>
</tr>
<tr>
<td>Medicare coverage</td>
</tr>
<tr>
<td>Private health insurance held</td>
</tr>
<tr>
<td>Has health insurance</td>
</tr>
</tbody>
</table>
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.
Medical Cost Burden
Medical Cost Burden Definitions

• A measure of financial pressure resulting from health spending stemming from inadequate resources to meet medical cost needs

• Carabello et al
  - In the past 12 months did you/anyone in your family have problems paying or were unable to pay any medical bills? Including bills for doctors, dentists, hospitals, therapists, medication, equipment, nursing home, or home care?

  - Do you/anyone in your family currency have medical bills that are being paid off over time? This could include medical bills being paid off with a credit card, through personal loans, or bill paying arrangements with hospitals or other providers? The bills can be from earlier years as well as this year?

  - Do you/Does anyone in your family currently have any medical bills that you are unable to pay at all?
**Medical Cost Burden – Diagnoses Unable to afford**

<table>
<thead>
<tr>
<th>SNOMED CT</th>
<th>ICD-10-CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medication not covered by insurance (finding)</td>
<td>Insufficient social insurance and welfare support</td>
</tr>
<tr>
<td>Unable to afford visit copayment (finding)</td>
<td>Other problems related to housing and economic circumstances</td>
</tr>
<tr>
<td>Uninsured medical expenses (finding)</td>
<td></td>
</tr>
<tr>
<td>Unable to afford medication (finding)</td>
<td></td>
</tr>
<tr>
<td>Unable to afford weight scale (finding)</td>
<td></td>
</tr>
<tr>
<td>Unable to afford blood pressure monitor (finding)</td>
<td></td>
</tr>
<tr>
<td>Unable to afford glucose monitoring device (finding)</td>
<td></td>
</tr>
</tbody>
</table>
## Medical Cost Burden– Diagnoses

### Excessive Medical Debt

<table>
<thead>
<tr>
<th>SNOMED CT</th>
<th>ICD-10-CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excessive out of pocket medical expenses</td>
<td>Financial Insecurity (past domain)</td>
</tr>
<tr>
<td>Excessive medical debt</td>
<td></td>
</tr>
<tr>
<td>Financial insecurity due to medical cost burden</td>
<td></td>
</tr>
</tbody>
</table>
Medical Cost Burden – Goals

SNOMED CT

• Able to pay for healthcare needs
• Able to afford medicine (from the Material Hardship build)
Medical Cost Burden- Screeners and Diagnoses Work to Do

• Working with SMEs to differentiate inability to afford (material hardship) from presence of medical debt (medical cost burden)
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 & 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

• Health Literacy
  • Submit concepts
    https://confluence.hl7.org/display/GRAV/Health+Literacy

• Medical Cost Burden
  • Submit concepts
    https://confluence.hl7.org/display/GRAV/Medical+Cost+Burden

• Health Insurance Status
  • Submit concepts
    https://confluence.hl7.org/display/GRAV/Health+Insurance+Status
Join the Gravity Project!

https://confluence.hl7.org/display/GRAV/Join+the+Gravity+Project

Learn More

- Public Collaborative meets bi-weekly on Thursdays 4:00 to 5:30pm ET. View meeting details here: https://confluence.hl7.org/display/GRAV/Gravity+Project+Meetings

- SDOH FHIR IG Workgroup meets weekly Wednesdays 3:00 to 4:00pm ET. View meeting details here: https://confluence.hl7.org/display/GRAV/FHIR+IG+Work+Group+Meetings

- Submit SDOH domain data elements: https://confluence.hl7.org/display/GRAV/Data+Element+Submission

Help us with Gravity Education & Outreach

Use Social Media handles to share or tag us to relevant information

- @thegravityproj
- https://www.linkedin.com/company/gravity-project

Help us find new sponsors and partners

Partner with us on development of blogs, manuscripts, dissemination materials

4/4/22
Gravity PMO Team

Evelyn Gallego  
Senior Advisor  
evelyn.gallego@emiadvisors.net  
@egallego  
linkedin.com/in/egallego/

Sarah DeSilvey  
Clinical Informatics Director  
sarah.desilvey@med.uvm.edu  
@sarcandes  
linkedin.com/in/sarah-desilvey-fnp/

Greg Harris  
Acting Technical Director  
gregory.harris@newwave.io

Jillian Annunziata  
Program Manager  
jillian.annunziata@emiadvisors.net  
@j_Nunz4  
linkedin.com/in/jillianannunziata/

Mark Savage  
SDOH Policy Lead  
MarkSavage.eHealth@pacbell.net  
@SavageMeHealth  
linkedin.com/in/mark-savage-34aa03126/

Lenel James  
Payer Advisor  
Lenel.James@bcbsa.com  
linkedin.com/in/lenel-james-4435ba

Gabriela Gonzalez  
Pilots Lead  
gabriela.gonzalez@emiadvisors.net  
linkedin.com/in/gabgonza7/

Additional questions? Contact: gravityproject@emiadvisors.net or visit https://thegravityproject.net