Consensus-driven Standards on Social Determinants of Health

Elder Abuse: Goals/Interventions Consensus Voting
Social Connection & Veteran Status: End to End Review
IPV & Stress: Goals/Interventions Concepts

Oct 28, 2021
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

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

• The Gravity Project is currently seeking additional sponsors for our 2022 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
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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.
Announcements
Announcements

• HL7 SDOH CC FHIR IG Public Meetings, Wednesdays 3pm – 4pm EST
• PCORI Webinar, Enhancing Data Infrastructure for Collection and Integration of Social Determinants of Health Data within PCORnet, Nov 4th
• Amazon Web Services (AWS) Grant: New Global Program to Help Customers Develop Cloud Solutions to advance Health Equity, Applications due Nov 15th
• HHS Postpartum Equity in Care Challenge: Innovative Methods to Improve Postpartum Care for Black or African American and American Indian/Alaska Native Women, Submission due Dec 17th
• See more details regarding Gravity’s announcements here: https://confluence.hl7.org/pages/viewpage.action?pageId=91996855#TheGravityProject-Announcements
Project Schedule and Overview
Gravity Overview: 2021 Roadmap

JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC
---|---|---|---|---|---|---|---|---|---|---|---

**Terminology**
- INADEQUATE HOUSING
- TRANSPORTATION INSECURITY
- FINANCIAL INSECURITY
- UNEMPLOYMENT
- EDUCATION
- VETERANS

**Technical**
- Gravity FHIR IG Ballot
- IG Ballot Reconciliation
- Reference Implementation Development
- Update User Stories
- Reference Implementation Update
- Publication Approval Process
- Reference Implementation Update
- HL7 FHIR Connectathons
- SDOH FHIR IG Pilots

**Pilots**
- CMS Connectathon
- SDOH FHIR IG Pilots

**Key**
- LOINC Code Release (MAR/OCT)
- SNOMED Code Release (MAR/SEP)
- ICD-10 Code Release (APR/OCT)

**Break**
- SOCIAL CONNECTION
- STRESS
- ELDER ABUSE
- INTIMATE PARTNER VIOLENCE (IPV)
- UNEMPLOYMENT
- EDUCATION
- VETERANS

**Goals/Interventions**
- SNOMED Code Release (MAR/SEP)
- ICDO-10 Code Release (APR/OCT)
- CMS Connectathon
- HL7 FHIR Connectathons
- SDOH FHIR IG Pilots

**10/28/21**

**WE ARE HERE**
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
2022 ICD-10-CM
ICD-10 CM Coordination and Maintenance Committee Meeting- Sept 14th and 15th

- Combination of both Gravity, American Academy of Pediatrics (AAP) submission, and others

- Gravity Elements
  - Z59.82 Transportation Insecurity
  - Z59.86 Financial Insecurity NEC
  - Z59.87 Material Hardship NEC
  - Z91.110 Patient’s non-compliance with dietary regimen secondary to financial hardship
    - + other and unspecified
  - Z91.190 Patient’s non-compliance with other medical treatment and regimen due to financial hardship
    - + other and unspecified
  - Z91.82 Personal history of military service and deployment

VA and Gravity Agree Must Separate
<table>
<thead>
<tr>
<th>Submitter</th>
<th>Code</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gravity</td>
<td><strong>Z59.87 Material Hardship NEC</strong></td>
<td>Request to revise, given Z58 return and new domain additions, to split current global hardship code into financial vs access concerns (z59 and z58 respectively)</td>
</tr>
<tr>
<td>Gravity Edited by CDC</td>
<td><strong>Z91.82 Personal history of military service and deployment</strong></td>
<td>Request to go forward with proposed “history of military service” code OR return to only previous &quot;history of military deployment&quot;</td>
</tr>
<tr>
<td>?</td>
<td><strong>Z59.83 Health insurance insecurity</strong></td>
<td>Request to revisit within Gravity process given current term encompassed concepts of medical cost burden and under-insurance, separate with separate risk</td>
</tr>
</tbody>
</table>
2022 ICD-10-CM Action Steps

• Review Proposal

• View Sept 15th presentation
  • https://cms.zoomgov.com/rec/share/UpsJosGmVMiUSihVCK1EtJee5X5Fwl25r2pZ-f-AglwYh1NWPDVawjzC2CEUjxCg.yHF2Cy_7xX0LVdGWexternal icon
  • Passcode: $E33^Cb@, Time: 0:56:10

• View Gravity ICD Huddle from 10/22
  • https://youtu.be/wHtzJVNYhlc

• Submit public comment
  • November 15, 2021: deadline for receipt of public comments
  • Email: nchsicd10CM@cdc.gov
Educational Attainment & Employment Status Consensus Voting Results

The Gravity Project is excited to announce that Educational Attainment & Employment Status Goals/Interventions have reached consensus, thank you for supporting the Gravity Project!
Terminology Identification
Terminology Roadmap

Key

▲ LOINC Code Release (MAR/OCT)
★ SNOMED Code Release (MAR/SEP)
◆ ICD-10 Code Release (APR/OCT)

Goals/ Interventions

Pilots

Terminology Pilots (Tier 1)

WE ARE HERE
<table>
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<tr>
<th>Date</th>
<th>Gravity WG Meeting Tasks</th>
<th>Homework</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/14</td>
<td><strong>Educational Attainment &amp; Employment Status: Goals and Interventions Consensus Vote</strong></td>
<td>Review: <strong>Social Connection, Elder Abuse &amp; Veteran Status Programs and Professions</strong></td>
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<td><strong>Social Connection, Elder Abuse &amp; Veteran Status: Goals and Interventions End to End Review</strong></td>
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<td>10/28</td>
<td><strong>Elder Abuse: Goals and Interventions Consensus Vote</strong></td>
<td>Review: <strong>Veteran Status &amp; Social Connection Programs and Professions</strong></td>
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<tr>
<td>11/11</td>
<td><strong>Veteran Status, Social Connection: Goals and Interventions Consensus Vote</strong></td>
<td>Review: <strong>IPV &amp; Stress Programs and Professions</strong></td>
</tr>
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<td><strong>IPV &amp; Stress : Goals and Interventions End to End Review</strong></td>
<td></td>
</tr>
<tr>
<td>11/25</td>
<td>Meeting Canceled</td>
<td></td>
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<tr>
<td>12/09</td>
<td><strong>IPV &amp; Stress: Goals and Interventions Consensus Vote</strong></td>
<td></td>
</tr>
<tr>
<td>12/23</td>
<td>Meeting Canceled</td>
<td></td>
</tr>
</tbody>
</table>
Community Terminology Development
Elder Abuse: Goals and Interventions
Consensus Voting
Elder Abuse

• SMEs: Dr Ron Acierno, Dr Jason Burnett, Dr Zach Gassoumis, Dr Tony Rosen, Dr Jeffrey Hall, Dr David Burnes
Elder Abuse Goals

Adequate Safety from Elder Abuse
Adequate Safety from Elder Sexual Abuse
Adequate Safety from Elder Physical Abuse
Adequate Safety from Elder Psychological Abuse
Adequate Safety from Elder Financial Abuse
Resolution of Elder Abuse
Resolution of Elder Sexual Abuse
Resolution of Elder Physical Abuse
Resolution of Elder Psychological Abuse
Resolution of Elder Financial Abuse
Resolution of Elder Neglect
Resolution of Elder Financial Exploitation
Adequate Social Support
Adequate Social Connection

Elder Abuse Mitigated
Elder Sexual Abuse Mitigated
Elder Physical Abuse Mitigated
Elder Psychological Abuse Mitigated
Elder Financial Abuse Mitigated
Elder Neglect Mitigated
Elder Financial Exploitation Mitigated

Feeling safe
Victim Separated from Perpetrator
Victim Safe from Perpetrator
Limited Perpetrator Access
Residence Secured
Financial Security
Restorative Justice
Enhanced Social Monitoring
Elder Abuse Interventions

- Adult Protective Services
- Mobile Crisis Unit
- Life Alert
- Respite Services
- Elder Care Services
- Elder Abuse Education Program
- Relief from Abuse Order
- Personal Care Aide
- National Elder Fraud Hotline
- National Domestic Abuse Hotline
- Long Term Care Ombudsman
- Victim Advocacy Program
- Victim Advocate
- Restorative Justice Program

- Assistance with application/paperwork
  - Guardianship
  - Power of Attorney
  - Relief from Abuse Order

- Housing Terms
- Legal Terms
Consensus Voting

• **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.
  
  • Email comments to gravityproject@emiadvisors.net by 11/04/2021

• **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.
  
  • Email comments to gravityproject@emiadvisors.net by 11/04/2021

• **Abstain**: A member declined to vote.
Elder Abuse Goals and Interventions Consensus Vote

• Complete the following Google Poll by 5pm EST Friday, October 29th
  https://forms.gle/pmwxSU7jRaqj5s1j7

• Items for Vote:
  • Elder Abuse Master List

• Of note:
  • You must press submit for answers to be recorded!
  • If voting yes with comment / formal objection: Email comments to gravityproject@emiadvisors.net by 11/04/2021
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 Terminology Development

We are here!
End to End Review

- 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?
- Comments and edits must be offered in written form with rationale and evidence for suggested alternate approaches.
- All elements must be assessed by our subject matter experts
- gravityproject@emiadvisors.net
# Intervention Structure

<table>
<thead>
<tr>
<th>Gravity Term</th>
<th>Definitions</th>
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</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 &lt;x&gt;) Subtype of Evaluation</td>
<td>Process of determining eligibility by evaluating evidence</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>
Intervention and Goal Themes

• We are beginning to have a repertoire of programs that cross multiple domains so you will see sets of programs referenced on the slides and the specifics in the master spreadsheets
  • “legal programs”
    • developed for housing but applicable across: elder abuse, intimate partner violence, transportation insecurity (licensing), etc
  • “housing programs”
    • Developed for housing but applicable across elder abuse and intimate partner violence
• Etc.
Social Connection: Goals and Interventions End to End Review
Social Connection

- SMEs: Edward Garcia - Foundation for Social Connection; Dr Julianne Holt-Lunstad, Dr Matt Pantell, Dr. Carla Perissinotto
Goals Development

• Social Connection
  - Adequate social connection

• Social Isolation
  - Participating socially

• Lack of social support
  - Adequate social support
  - Receives as much social support as wanted

• Loneliness
  - Social contacts are satisfying and sufficient
  - Not Lonely
## Social Connection Interventions

<table>
<thead>
<tr>
<th>Socially Assistive Robot</th>
<th>Social robots or Socially-Assistive Robots, SARs support the social and psychological needs of the elderly. Social robots may serve multiple functions such as affective therapy, cognitive training, social facilitator, companionship and physiological therapy.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MEDICARE COVERAGE</strong></td>
<td></td>
</tr>
<tr>
<td>Tech Enabled Social Connection Device</td>
<td>Technology that facilitates social interactions and is enabled by a communications capability, such as the Internet or a mobile device.</td>
</tr>
<tr>
<td>Loneliness AI Application</td>
<td>A computer program that simulates and processes human conversation (either written or spoken), allowing humans to interact with digital devices as if they were communicating with a real person. They can be as simple as rudimentary programs that answer a simple query with a single-line response, or as sophisticated as digital assistants that learn and evolve to deliver increasing levels of personalization as they gather and process information.</td>
</tr>
</tbody>
</table>
# Social Connection Interventions

<table>
<thead>
<tr>
<th>Social Groups</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A social group is two or more humans who interact with one another, share similar characteristics, and collectively have a sense of unity.</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Peer Support Program</th>
<th>Definition</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Process through which people who share common experiences or face similar challenges come together as equals to give and receive help based on the knowledge that comes through shared experience.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Peer Support Specialist</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Peer support workers are people who have been successful in the recovery process who help others experiencing similar situations.</td>
</tr>
</tbody>
</table>
## Social Connection Interventions

<table>
<thead>
<tr>
<th>Social Connection Skills Building Program</th>
<th>Programs that aim to teach social skills to facilitate social engagement.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Connection Resources Directory</td>
<td>Programs that collate resources to address social isolation and loneliness.</td>
</tr>
<tr>
<td>Service Exchange Network</td>
<td>A service-exchange network that matches volunteers with the unique skills, talents and needs of those who live nearby. Connect with community members who share your interests, and help one another.</td>
</tr>
<tr>
<td>Community Arts Programs</td>
<td>Community Arts Programs offer interactive arts, such as creative theatre and movement, visual art, music, poetry, and life stories. These programs are provided to at-risk youth, people with disabilities, and seniors.</td>
</tr>
<tr>
<td>Community-Based Social Support for Physical Activity</td>
<td>Community-based social support interventions for physical activity combine physical activity opportunities and social support to build, strengthen, and maintain social networks that encourage positive behavior changes. Interventions can also include education, group or individual counseling, or plans tailored to individual needs.</td>
</tr>
</tbody>
</table>
Social Connection: Screener Update

• Since we last presented we have discovered a set of unprocessed screening tools in our own end to end review
• *We are working on assessing these with our SMEs*
Social Connection: Relationship Quality

- Social Connection - the structural, functional, and quality aspects of how individuals connect to each other.
  - Social Isolation - objectively being alone, having few relationships, or infrequent social contact.
  - Loneliness - is subjectively feeling alone. The discrepancy between one’s desired level of connection and one’s actual level.
  - Lack of Social Support - the actual or perceived lack of availability of resources (e.g., informational, tangible, emotional) from others.
  - Poor Relationship Quality/Relationship Strain - how happy or satisfied an individual is in his or her primary relationships.
Social Connection: Relationship Quality

• Most of the set will be unchanged
• But:
  • A few new screening tools
  • A couple new diagnoses – with different types of primary relationships
  • A few new interventions
Veteran Status: Interventions End to End Review
Veteran Interventions

- Veteran Services Officer
- Veteran Service Organization
- Veteran Affairs Office
- GI Bill (Program)
- Military OneSource (Program)
- Native American Direct Loan (Program)
- Supportive Services for Veteran Families (SSVF) (Program)
- VA Homeless Veterans Community Employment Services (Program)
- VA Housing Assistance (Program)
- VA Loan (Program)
- VA Supportive Housing (HUD-VASH) (Program)

- Veterans Experiencing Homelessness (Program)
- Yellow Ribbon (Program)

- Veteran Affairs Directory of Veteran Service Organizations
- Veterans Crisis Line
- Make the Connection
- Veteran Affairs Suicide Prevention Programs
- Veterans Training Program
- Veteran Affairs Wellness Mobile Applications
Veteran Goals

Veteran Specific Goals

However, we also, as with other domains, imagine a future set of all goals from all domains that could be drawn from to meet the diverse social needs of the person.
Questions?

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Community Terminology Development

We are here!

Pre-Work → Identify → Review → Vote → Analyze → Build → Test → Evaluate
Intimate Partner Violence (IPV) & Stress: Goals and Interventions Concepts
Intervention and Goals Development

• The task for the next months is to build out the goals and interventions concepts for the screening and diagnoses only domains we addressed in the winter and spring
  • Psychological Stress
  • Intimate Partner Violence
A social determinants of health lexicon

- **Social Determinants of Health**: “the conditions in which people are born, grow, live, work and age,” which are “shaped by the distribution of money, power and resources.” WHO (Alderwick and Gottlieb, 2019)
  - Can offer both positive and negative forces
    - Positive Forces > Protective Factors
    - Negative Forces > Social Risks
Goals Development

- The core of goals is representing the “desired for state” when one has a social need.
- Built with care planning “goals of care” in mind, both patient and provider
- Macro terms representing protective factors or the antithesis of the problem
- When a domain has sub-domains “plateaus” that mark progress, we build these too

<table>
<thead>
<tr>
<th>Problem</th>
<th>Goal</th>
<th>Problem</th>
<th>Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food Insecurity</td>
<td>Has adequate number of meals and snacks daily</td>
<td>Homelessness</td>
<td>Homeless, sleeping safely</td>
</tr>
<tr>
<td></td>
<td>Has adequate quality meals and snacks</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Intervention Development

• The core of interventions are the programs and professions critical to addressing the social risk at hand

• Key steps are taken to:
  • Align with federal reporting requirements and policy
  • Anticipate mapping to community taxonomies such as 211 LA

• All programs and professions are then integrated into the Gravity Project Interventions Structure
Intimate Partner Violence (IPV)

- SMEs: Chris Grasso- Fenway Health, Lisa James - Future w/o Violence
IPV Progress

• Build, so far, aligns closely with elder abuse (a different domain of interpersonal violence)
• New specific goals
• New specific programs
IPV Goals: Common Goals

- Feeling safe
- Victim Separated from Perpetrator
- Victim Safe from Perpetrator
- Limited Perpetrator Access
- Residence Secured
- Financial Security
- Restorative Justice
- Enhanced Social Monitoring
## IPV Interventions: Common Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Domestic Abuse Hotline</td>
<td>The Hotline is an immediate link to lifesaving help for victims. It provides information and assistance to adult and youth victims of family violence, domestic violence, or dating violence, family and household members, and other persons such as domestic violence advocates, government officials, law enforcement agencies and the general public.</td>
</tr>
<tr>
<td>Relief from Abuse Order</td>
<td>A relief from abuse order is a court order that is designed to stop violent, harassing and threatening behavior. It can also stop the abuser from any contact or communication with you, and protect you and your family from the abuser.</td>
</tr>
<tr>
<td>Restorative Justice Program</td>
<td>Commonly accepted definition for &quot;restorative justice&quot; used internationally is &quot;a process whereby parties with a stake in a specific offense resolve collectively how to deal with the aftermath of the offense and its implications for the future.&quot;</td>
</tr>
<tr>
<td>Safety Plan</td>
<td>A safety plan is a set of actions that can help lower your risk of being hurt by your partner. It includes information specific to you and your life that will increase your safety at school, home, and other places that you go on a daily basis.</td>
</tr>
<tr>
<td>Substance Use Disorder Programs</td>
<td>The Substance Abuse and Mental Health Services Administration (SAMHSA) collects information on thousands of state-licensed providers who specialize in treating substance use disorders, addiction, and mental illness.</td>
</tr>
<tr>
<td>Transitional Housing</td>
<td>A project that provides temporary lodging and is designed to facilitate the movement of homeless individuals and families into permanent housing within a specified period of time, but no longer than 24 months. Requirements and limitations may vary by program, and will be specified by the funder.</td>
</tr>
<tr>
<td>Victim Advocate</td>
<td>Victim advocates are trained to support victims of crime. They offer emotional support, victims’ rights information, help in finding needed resources and assistance in filling out crime victim related forms.</td>
</tr>
<tr>
<td>Victim Advocacy Program</td>
<td></td>
</tr>
</tbody>
</table>
Psychological Stress

SME: Dr Aric Prather, Others to be determined
Psychological Stress Progress

- Intervention concepts will align with our social connection build and reference existing terms within VSAC depression intervention value sets.
Questions?

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Please send all chats to Everyone.
Policy Update

A snapshot of recent policy drivers to build a culture of SDOH data collection, exchange, and use:

- CMS Innovation Center’s strategy refresh
- USCDI+
- Congressional Social Determinants of Health Caucus
- California’s Data Exchange Framework and Stakeholder Advisory Group (AB 133)
CMMI’s 2021 Strategy Refresh

• A strategy refresh for value-based care, released Oct. 20, 2021
• Would streamline payment model implementation and integration, based on 50+ payment models over first decade
• Cross-cutting Strategic Objective 2: Advance Health Equity
  • “All new models will require participants to collect and report the demographic data of their beneficiaries and, as appropriate, data on social needs and social determinants of health.”
  • Examine how to address SDOH across models, including
    • supporting providers’ ability to address SDOH
    • improving collection and precision of SDOH data
    • addressing evidence gaps on what works
    • understanding beneficiary needs and the costs of services
    • improving coordination between community-based organizations and health care entities
    • identifying incentives to address SDOH in health care settings

https://innovation.cms.gov/strategic-direction
ONC added the Gravity Project’s SDOH data elements to USCDI v2 (July 9, 2021)

On October 8, ONC launched USCDI+ to coordinate and help all federal agencies:

- Identify, establish, harmonize, and advance use of interoperable datasets beyond the core data in USCDI in order to meet agency-specific programmatic requirements or use cases
- Ensure that extensions build from the same core USCDI foundation, and align similar data needs across agency programs

Begins with CMS (digital quality measurement) and CDC (public health)

An opportunity to integrate social determinants of health across all federal health agencies, not just ONC and CMS Medicare and Medicaid!

https://www.healthit.gov/buzz-blog/health-it/thinking-outside-the-box-the-uscdi-initiative
Congressional SDOH Caucus

On July 21, members of Congress launched a bipartisan Congressional Social Determinants of Health Caucus, to collaborate and coordinate on the issue across members, committees of jurisdiction, and branches.

- Currently 28 members of the House of Representatives

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<tbody>
<tr>
<td>31</td>
<td>132</td>
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</tbody>
</table>

| Health equity/Disparities bills | 23 | 41 |

Source: Aligning for Health

https://congressionalsdohcaucus.org/
California’s Data Exchange Framework and Stakeholder Advisory Group (AB 133)

• AB 133 requires the California Health and Human Services Agency to establish a statewide data exchange framework by July 1, 2022:
  • Requires and governs exchange of health information among health care entities and government agencies across California
  • Single data sharing agreement and common set of policies and procedures
  • Leverages national standards for exchange and data content
• Requires all hospitals, physicians, skilled nursing facilities, health plans, laboratories and psychiatric hospitals (with limited exceptions):
  • Execute the data sharing agreement on or before January 31, 2023
  • Exchange or provide access to health information in real time for treatment, payment, or health care operations on or before January 31, 2024
  • Defines “health information” at a minimum as USCDI v1 before October 6, 2022, and all EHI thereafter
• Requires a 25-member Stakeholder Advisory Group to identify:
  • Which data beyond “health information” should also be shared for specified purposes
  • Ways to incorporate SDOH data
  • Ways to incorporate data related to underserved or underrepresented populations
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.
Technology
Interoperability is about **people**... who want (their IT systems) to work together and understand each other.
Tech Lingo Quick Start

Syntax standards
Message, Document, or API specifications that define a shared information structure.

*Examples:* HSDS, C-CDA, FHIR

Semantic standards
Universal coding systems (terminologies/taxonomies) that enable sharing the same meaning.

*Examples:* LOINC, SNOMED CT, ICD, 211 LA County Taxonomy

Candidates for entry into our [Gravity Project Glossary](#)
Syntax standards and semantic standards go together like chips and salsa.
Tech Lingo Quick Start (continued)

**HL7 FHIR® (Fast Healthcare Interoperability Resources)**

Framework (data model) with standardized, but extensible building blocks (called “resources”).

Rules for how to exchange data across systems with the major interoperability paradigms: REST, Documents, Messages, Services.

…but FHIR is also, a vibrant, open, collaborative, well-orchestrated community.
Tech Lingo Quick Start (continued)

FHIR® Implementation Guide (IG)

A (formal) specification for how FHIR resources (and APIs) are used to address a particular interoperability problem, including computable structures that represent its special adaptations of the base FHIR standard.

Example: HL7 SDOH Clinical Care FHIR Implementation Guide

Primary audience: software developers building client apps, servers, etc. that implement these specs.

Special note: The diverse teams that deploy such software solutions into care environments are “implementers” in a different sense. They benefit from other assets (site-oriented enriching materials) that are not typically part of the technical spec (and are developed through pilot experience). Ongoing conversation about how to best bundle these together.

Candidates for entry into our Gravity Project Glossary
Reference Implementation (RI)

A software program that implements all requirements from a corresponding specification. It often accompanies a technical standard, and demonstrates what should be considered the "correct" behavior of any other implementation of it.

Examples: ISO software simulation for MP3 (in C), HAPI for the base FHIR standard (in JAVA), and Gravity SDOH Exchange RI (in JAVA+JS)

Note: It is becoming the expectation that FHIR IGs have a reference implementation.
Technical 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>
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</thead>
<tbody>
<tr>
<td>Gravity FHIR IG Ballot</td>
<td>IG Ballot Reconciliation</td>
<td>Final updates/IG Ready for Publication</td>
<td>Publication Approval Process</td>
<td>IG STU2 (new functionality and feedback from testing activities)</td>
<td>Gravity FHIR IG STU2 Ballot</td>
<td></td>
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<tr>
<td>Reference Implementation Development</td>
<td>Update User Stories</td>
<td>Reference Implementation Update</td>
<td>Reference Implementation Update</td>
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- CMS Connectathon
- HL7 FHIR Connectathons
- SDOH FHIR IG Pilots
- WE ARE HERE
- Major Milestone – SDOH IG Published by HL7 as STU1
HL7 FHIR® Implementation Guide: SDOH Clinical Care, Release 1

Now available!

Applicable for software developers working in any SDOH domain

Includes tech specifications for care-related activities:
- Assessments
- Health Concerns and Problems
- Goals
- Interventions (including referrals)
- Consent

Enabling closed-loop referral process for interventions done by social care orgs via 1) direct referral and 2) through a coordination platform

http://hl7.org/fhir/us/sdoh-clinicalcare/STU1/
FHIR IG STU2 Updates

Filling in key workflow encompassed by, but not done in STU1:

- Patient/caregiver use of an app (participation in referral process and contributing information via forms)
- Community-based organization use of an app (as alternative to an API-enabled system)
- Techniques for an app to sync with multiple referral sources

Evolving the IG approach with standard terminologies

- Aligning with current approaches in FHIR US Core (based on USCDI updates)
- Enabling use of social service taxonomies in the exchanges
November 2021 FHIR IG Testing

Early implementer testing provides important feedback on new IG features, and is required to meet the FHIR ballot requirements.

Plan to hold facilitated testing with engaged partners in November.

One-on-one system exchanging with the reference implementation.

Contact us if interested!
Persona exemplar:

Esperanza Córdova

Ms. Córdova is having an annual visit with her primary care provider (Susan Clark, MD).

In preparation for the visit, the clinic invites her to complete a whole-person health questionnaire.

She accept the invitation and completes the questionnaire with the help of clinic staff at her visit check-in.

Let’s see how the tech standards could be used in this snippet of the story…
Smart, computable, uniform definitions for questionnaires

<table>
<thead>
<tr>
<th>Protocol for Responding to and Assessing Patients’ Assets, Risks, and Experiences</th>
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</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
</tr>
<tr>
<td>Are you Hispanic or Latino?</td>
</tr>
<tr>
<td>Which race(s) are you?</td>
</tr>
<tr>
<td>At any point in the past 2 years, has season or migrant farm work been your or your family’s main source of income?</td>
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<tr>
<td>Have you been discharged from the armed forces of the United States?</td>
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<tr>
<td>What language are you most comfortable speaking?</td>
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<tr>
<td><strong>Family &amp; Home</strong></td>
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<tr>
<td>How many family members, including yourself, do you currently live with?</td>
</tr>
<tr>
<td>What is your housing situation today?</td>
</tr>
<tr>
<td>Are you worried about losing your housing?</td>
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<tr>
<td>What address do you live at?</td>
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<tr>
<td><strong>Money &amp; Resources</strong></td>
</tr>
<tr>
<td>What is the highest level of school that you have finished?</td>
</tr>
<tr>
<td>What is your current work situation?</td>
</tr>
<tr>
<td>What is your main insurance?</td>
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Structured, coded screening results in the provider’s EHR
## Structured, coded screening results in the provider’s EHR

Data loaded on 10/28/21, 2:52 PM in 8.3 seconds

<table>
<thead>
<tr>
<th>Status</th>
<th>Category</th>
<th>Code</th>
<th>Subject</th>
<th>Encounter</th>
<th>Effective</th>
<th>Issued</th>
<th>Value</th>
<th>Derived From</th>
<th>Obs Code</th>
<th>Obs Code System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final</td>
<td>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?</td>
<td>Esperanza575 Córdova800</td>
<td>2021-10-28T18:33:13.802Z</td>
<td>2021-10-28T18:33:13.802Z</td>
<td>Food</td>
<td>QuestionnaireResponse/84706 63586-2</td>
<td><a href="http://loinc.org">http://loinc.org</a></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final</td>
<td>During the past year, what was the total combined income for you and the family members you live with? This information will help us determine if you are eligible for any benefits.</td>
<td>Esperanza575 Córdova800</td>
<td>2021-10-28T18:33:13.802Z</td>
<td>2021-10-28T18:33:13.802Z</td>
<td>20000</td>
<td>QuestionnaireResponse/84706 63586-2</td>
<td><a href="http://loinc.org">http://loinc.org</a></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Final</td>
<td>In the past year, have you been afraid of your partner or ex-partner?</td>
<td>Esperanza575 Córdova800</td>
<td>2021-10-28T18:33:13.802Z</td>
<td>2021-10-28T18:33:13.802Z</td>
<td>Yes</td>
<td>QuestionnaireResponse/84706 76501-6</td>
<td><a href="http://loinc.org">http://loinc.org</a></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final</td>
<td>In the past year, have you spent more than 2 nights in a row in a jail, prison, detention center, or juvenile correctional facility?</td>
<td>Esperanza575 Córdova800</td>
<td>2021-10-28T18:33:13.802Z</td>
<td>2021-10-28T18:33:13.802Z</td>
<td>No</td>
<td>QuestionnaireResponse/84706 93028-9</td>
<td><a href="http://loinc.org">http://loinc.org</a></td>
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</tbody>
</table>
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
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

• Social Connection
  • Review Social Connection programs and professions
    https://confluence.hl7.org/display/GRAV/Social+Connection

• Elder Abuse
  • Submit Elder Abuse Consensus Vote by 10/29/2021
    https://confluence.hl7.org/display/GRAV/Elder+Abuse

• Demographics
  • Review Veteran Status programs and professions
    https://confluence.hl7.org/display/GRAV/Demographics+Domain

• IPV
  • Submit IPV programs and professions
    https://confluence.hl7.org/display/GRAV/Intimate+Partner+Violence

• Stress
  • Submit Stress programs and professions
    https://confluence.hl7.org/display/GRAV/Stress
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

10/28/21
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