Consensus-driven Standards on Social Determinants of Health

Social Connection: Goals/Interventions Consensus Voting
Veteran, Intimate Partner Violence & Stress: Goals/Interventions End to End Review
Nov 11, 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
<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><strong>Social Connection: Goals and Interventions Consensus Vote</strong></td>
<td>Sarah</td>
</tr>
<tr>
<td>Veteran, IPV &amp; Stress: Goals and Interventions End to End Review</td>
<td>Sarah</td>
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<tr>
<td>Technology Update</td>
<td>Dan/Bob</td>
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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
• 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

<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>
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<tr>
<td><strong>Terminology</strong></td>
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<tr>
<td>Inadequate Housing</td>
<td>Transportation Insecurity</td>
<td>Financial Insecurity</td>
<td>Unemployment</td>
<td>Education</td>
<td>Veterans</td>
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<tr>
<td>Gravity FHIR IG Ballot</td>
<td>IG Ballot Reconciliation</td>
<td>Final updates/ IG Ready for Publication</td>
<td>IG STU2 (new functionality and feedback from testing activities)</td>
<td>Gravity FHIR IG V2 Ballot</td>
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<td>Reference Implementation Development</td>
<td>Update User Stories</td>
<td>Publication Approval Process</td>
<td>Reference Implementation Update</td>
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<td>▲ LOINC Code Release (MAR/OCT)</td>
<td>★ SNOMED Code Release (MAR/SEP)</td>
<td>▲ ICD-10 Code Release (APR/OCT)</td>
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<td>HL7 FHIR Connectathons</td>
<td>SDOH FHIR IG Pilots</td>
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### Terminology
- Social Connection
- Stress
- Material Hardship
- Elder Abuse
- Intimate Partner Violence (IPV)

### Goals/Interventions
- CMS Connectathon
- Update User Stories
- IG STU2 (new functionality and feedback from testing activities)

### Social Connections
- WE ARE HERE

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

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**Note:**
- Terminology and Goals/Interventions are integrated into the roadmap for clearer understanding.
- The roadmap highlights key events and milestones for effective project management.
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
The Gravity Project wants to take a moment to recognize the team for the initial completion of the VSAC value sets for our domains! The terminology leads of Linda Hyde and Katiya Shell worked overtime while maintaining domain build. They will be tested and published tomorrow ahead of a 11/15 deadline. Additional thanks to our colleagues at AMA, Jim Shallaby and Monique Van Berkum, for all their insight!
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**
# 2022 ICD-10-CM
ICD-10 CM Coordination and Maintenance Committee Meeting- Sept 14th and 15th - revisions

<table>
<thead>
<tr>
<th>Submitter</th>
<th>Code</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gravity</td>
<td>Z59.87 Material Hardship NEC</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</td>
<td>Z91.82 Personal history of military service and deployment</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>Edited by CDC</td>
<td>Z59.83 Health insurance insecurity</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-AqwYh1NWPDVawjzC2CEUjxCq.yHF2Cy_7xX0LVdGWexternal icon
  • Passcode: $E33^Cb@, Time: 0:56:10

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

• Submit public comment
  • **November 15, 2021:** deadline for receipt of public comments
  • Email: nchsicd10CM@cdc.gov
  • https://confluence.hl7.org/display/GRAV/ICD-10+Coding+Submissions
Unemployment - Alignment with NIOSH Value Sets

- Met with NIOSH reps on 11/5 to ensure merging with ODH value sets
- Because of Gravity Project existing alignment with Bureau of Labor Statistics, on target
- One opportunity is to expand employment goal terms, many already existing in SNOMED

| Paid work, armed forces | Paid work, state government |
| Paid work, local government | Unpaid work, not self-employed |
| Paid work, national government | Unpaid work, self-employed |
| Paid work, not self-employed | Voluntary Disaster Response/First Responder |
| Paid work, self-employed | Volunteer work (20 or more hours/week and not Disaster Response/First Responder) |
Terminology Identification
# Gravity Project Schedule and Activities

<table>
<thead>
<tr>
<th>Date</th>
<th>Gravity WG Meeting Tasks</th>
<th>Homework</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/28</td>
<td>Elder Abuse: Goals and Interventions Consensus Vote</td>
<td>Review: Veteran Status &amp; Social Connection Programs and Professions</td>
</tr>
<tr>
<td></td>
<td>Veteran Status &amp; Social Connection: Goals and Interventions End to End Review</td>
<td>Submit: IPV &amp; Stress Programs and Professions</td>
</tr>
<tr>
<td></td>
<td>IPV &amp; Stress: Goals and Interventions Concepts</td>
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</tr>
<tr>
<td>11/11</td>
<td>Social Connection: Goals and Interventions Consensus Vote</td>
<td>Review: Veteran Status, IPV &amp; Stress Programs and Professions</td>
</tr>
<tr>
<td></td>
<td>Veteran Status, IPV &amp; Stress: Goals and Interventions End to End Review</td>
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</tr>
<tr>
<td>11/25</td>
<td>Meeting Canceled</td>
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<tr>
<td>12/09</td>
<td>Veteran’s Status, IPV &amp; Stress: Goals and Interventions Consensus Vote</td>
<td></td>
</tr>
<tr>
<td>12/23</td>
<td>Meeting Canceled</td>
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</tr>
</tbody>
</table>
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
Community Terminology Development

We are here!
Social Connection: Goals and Interventions Consensus Voting
Social Connection

• SMEs: Edward Garcia- Foundation for Social Connection; Dr Julianne Holt-Lunstad, Dr Matt Pantell, Dr. Carla Perissinotto
Social Connection: Domains and Sub-Domains

• 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

- Relationship Quality is on hold for now

- Original charter for social isolation terms > MET
  - Plus Loneliness and Lack of social support !!

- And, we need to gather additional/new SMEs to enable that work
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>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></th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td><strong>Telephone Support Program</strong></td>
<td>Telephone based programs that are used to increase opportunities for social connection and psychosocial safety. These may be both call in or call out in structure. They may include both episode and longitudinal contacts.</td>
</tr>
<tr>
<td><strong>Social Groups</strong></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>
<tr>
<td><strong>Peer Support Program</strong></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>
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<tr>
<td><strong>Peer Support Specialist</strong></td>
<td>Peer support workers are people who have been successful in the recovery process who help others experiencing similar situations.</td>
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# Social Connection Interventions

<table>
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<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

• In the last weeks we discovered a few relevant screening tools in our own end to end review.
• These have been added to the master
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 11/18/2021**

• **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 11/18/2021**

• **Abstain:** A member declined to vote.
Social Connection: Goals and Interventions
Consensus Vote

• Complete the following Google Poll by 5pm ET Monday, November 15th
  • https://forms.gle/mwP5MPY2qsXAGgaX7

• Item for Vote:
  • Social Connection 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 11/18/2021
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!

1. Pre-Work
2. Identify
3. Review
4. Vote
5. Analyze
6. Build
7. Test
8. Evaluate
Veteran, Intimate Partner Violence (IPV) & Stress: Goals and Interventions End to End Review
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
Veteran Status
Veteran Vote

- We are delaying the Veteran vote for two reasons
  - One, because it is Veteran’s Day, and we needed to honor the moment of remembrance
  - Two, because there is promising work being done with VA Social Work and VA Clinicians and we can use this moment to let it mature
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.
Veteran Interventions Approach

• Include all primary resources (hotlines, directories) and professions (Veteran Services Officer, VA Social Work) that allow community settings, clinical and otherwise, to help connect a Veteran to resources

• Naming conventions for all VA official programs so they can be easily found

• Create parent concepts that allow grouping of the many programs available to enable mapping from the VA to community care
  • VA Loan Programs
  • VA Home Loan Programs
  • VA Veterans Experiencing Homelessness Programs
  • VA Suicide Prevention Programs
  • VA Mental Health Services
  • etc
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.
Intimate Partner Violence (IPV)
Intimate Partner Violence (IPV)

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

- Feeling Safe
- Intimate Partner Violence Mitigated
- Intimate Partner Violence Sexual Abuse Mitigated
- Victim Separated from Perpetrator
- Victim Safe from Perpetrator
- Limited Perpetrator Access
- Residence Secured
- Financial Security
- Enhanced Social Monitoring
- Relationship Goals Reviewed
- Positive Cultural Identity
- Autonomy
- Spirituality
# IPV Interventions: Common Programs (w/ Elder Abuse)

<table>
<thead>
<tr>
<th>Program</th>
<th>Description</th>
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<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>The 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 Assistance Program</td>
<td>Victim assistance programs provide services to victims as they recover from the crime and proceed through the criminal justice process.</td>
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</table>
# IPV Interventions: New Programs

<table>
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<tr>
<th>Service Provider</th>
<th>Description</th>
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<tbody>
<tr>
<td>Intimate Partner Violence Service Provider</td>
<td>Operate shelters for victims of intimate partner violence and their dependents; or provide counseling, advocacy, or self-help services to victims of intimate partner violence.</td>
</tr>
<tr>
<td>Parent Support Group Programs</td>
<td>Parent support groups provide informal mutual support and opportunities to discuss parenting challenges and strategies.</td>
</tr>
<tr>
<td>National Immigration Law Center</td>
<td>Provides legal advocacy for low income immigrants.</td>
</tr>
<tr>
<td>Culturally and Gender Affirming Resource Centers</td>
<td>Offer resources and supports for culturally specific and gender affirming survivors.</td>
</tr>
<tr>
<td>Strong Heart Helpline</td>
<td>StrongHearts is a culturally-appropriate, anonymous, confidential service dedicated to serving Native American survivors of domestic violence and concerned family members and friends.</td>
</tr>
<tr>
<td>Health Insurance Navigator</td>
<td>An individual or organization that's trained and able to help consumers, small businesses, and their employees as they look for health coverage options through the Marketplace, including completing eligibility and enrollment forms. These individuals and organizations are required to be unbiased. Their services are free to consumers.</td>
</tr>
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Psychological Stress
Psychological Stress

SME: Dr Aric Prather
Psychological Stress: Goals

STRESS

Resolution of Stress
Stress Mitigated
Removal of Stressor
Adequate Social Support
# Stress: Common Programs (w/ Social Connection)

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<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>
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<tr>
<td><strong>Community Resource Assistance</strong></td>
<td>Help connecting individuals with available community resources to address identified social needs</td>
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<td><strong>Community-Based Social Support for Physical Activity</strong></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>
<tr>
<td><strong>Companion Animal Program</strong></td>
<td>A program that provides an animal for companionship, to relieve loneliness, and sometimes help with depression, anxiety, and certain phobias. These animals do not have special training to perform tasks that assist people with disabilities. These support animals are not limited to dogs.</td>
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<td><strong>Peer Support Program</strong></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>
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<tr>
<td><strong>Social Groups</strong></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>
</table>
## Stress: New Programs (w/ Social Connection)

<table>
<thead>
<tr>
<th>Mindfulness Based Stress Program</th>
<th>Mindfulness-based stress reduction programs include simple, clinically-proven methods for relaxing the body and mind. The techniques are simple to learn and are uniquely effective in coping with the side effects of cancer and cancer treatment.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stress Reduction Application</td>
<td>Mindfulness meditation delivered via a mobile application to reduce stress</td>
</tr>
<tr>
<td>Ecotherapy</td>
<td>helps people connect with nature to assist in dealing with physical and mental illnesses</td>
</tr>
<tr>
<td>Bio-Feedback Therapy</td>
<td>Biofeedback is a process that uses your body’s own signals like heart rate and body temperature to bring about healthy changes.</td>
</tr>
<tr>
<td>Breathing Techniques for Relaxation</td>
<td>Breathe focus techniques evoking the relaxation response.</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.
Technology
Tech Lingo Quick Start (recap from last time)

Syntax standards
Semantic standards
HL7 FHIR®
FHIR Implementation Guide
Reference Implementation

Forthcoming entries into our Gravity Project Glossary
Tech Lingo Quick Start (new entry)

FHIR® Connectathon

An event to develop FHIR (including Implementation Guides) through structured, hands-on testing. Peer testing helps ensure that the specs are clear enough that different people interpret them consistently. When stuff doesn’t work, it helps us learn and improve the standard. Participants are expected to write (or have written or use) some software intended to demonstrate FHIR connectivity.

Example: HL7 FHIR Connectathon 29

Special note: FHIR is committed to being a welcoming community, so newcomers are always encouraged! A Connectathon is a safe place to learn and to “fail forward”.

Candidate for entry into our Gravity Project Glossary
(HL7) Balloting

The formal process HL7 uses to get feedback and resolve on specifications prior to publication, designed in conformance with HL7 and ANSI expectations for ensuring openness and fairness. The goal is to ensure that the community to be governed by the standard agrees with the expectations that specification sets.

**Special note:**

HL7 welcomes feedback at ANY TIME from ANYONE willing to be constructive. (You don’t have to be a member). Balloting is a special effort to ensure a systematic, open, and fair overall process.

Read more about HL7’s Balloting Process and giving Specification Feedback.
Overview of an HL7 Ballot Cycle

1. Sign up to “join the pool” for particular version of a spec
2. Reviewers submit comments (note issues, suggest changes)
   1. Cast an overall vote (👍, 👎, 😐) about publishing “as is”
3. Work Groups review comments and address them through a process called *Reconciliation*
4. Depending on how a balloter perceives the *Reconciliation* outcome, they can choose (or not) to “withdraw” their 👎 vote
5. Final determination of whether a spec can be published as a standard depends on the balance of 👍 votes
   1. Pass/Fail varies by different levels of standards.
   2. For an “STU” to pass, 👍/ (👍 + 👎) must be greater than 60%
Call to action!

Participate in the Jan 2022 HL7 Ballot Cycle!

*Note:* Sign-up closes Dec 9, 2021

Participate in the Jan 10-12 Connecathon!

*Note:* Registration available through Dec 13, 2021
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>
</tr>
</thead>
<tbody>
<tr>
<td>Gravity FHIR IG Ballot</td>
<td>IG Ballot Reconciliation</td>
<td>Reference Implementation Development</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>Reference Implementation Update</td>
<td>Reference Implementation Update</td>
<td>CMS Connectathon</td>
<td>HL7 FHIR Connectathons</td>
<td>SDOH FHIR IG Pilots</td>
<td>WE ARE HERE</td>
</tr>
</tbody>
</table>

11/12/21
1. This is a framework Implementation Guide (IG) and supports multiple domains

2. IG support the following clinical activities
   - Assessments
   - Health Concerns / Problems
   - Goals
   - Interventions including referrals
   - Consent
   - Aggregation for exchange/reporting

3. Completed January 2021 ballot as a Standard for Trial Use Level 1 (STU1)

4. Published as STU 1 in August 2021

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 (work in progress)
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

Protocol for Responding to and Assessing Patients' Assets, Risks, and Experiences

<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Are you Hispanic or Latino?</td>
<td>Yes</td>
</tr>
<tr>
<td>Which race(s) are you?</td>
<td>White</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>
<td>No</td>
</tr>
<tr>
<td>Have you been discharged from the armed forces of the United States?</td>
<td>No</td>
</tr>
<tr>
<td>What language are you most comfortable speaking?</td>
<td>I choose not to answer this question</td>
</tr>
<tr>
<td>How many family members, including yourself, do you currently live with?</td>
<td>7</td>
</tr>
<tr>
<td>What is your housing situation today?</td>
<td>I have housing</td>
</tr>
<tr>
<td>Are you worried about losing your housing?</td>
<td>Yes</td>
</tr>
<tr>
<td>What address do you live at?</td>
<td>518 Heidenreich Loaf Suite 57, Charlotte, NC 28204</td>
</tr>
<tr>
<td>What is the highest level of school that you have finished?</td>
<td>Less than high school degree</td>
</tr>
<tr>
<td>What is your current work situation?</td>
<td>Part-time or temporary work</td>
</tr>
<tr>
<td>What is your main insurance?</td>
<td>None/uninsured</td>
</tr>
</tbody>
</table>
Structured, coded screening results in the provider’s EHR

Ms. Esperanza675 Córdova800

Patient ID: 62928
Day of Birthday: 1972-05-28
Gender: Female
Primary Language: Spanish

Home Address: 518 Heidenreich Loaf Suite 57 Charlotte, NC 28204
Phone Number: 555-891-7343
Email Address: N/A
Employment Status: N/A

Race: White
Ethnicity: Hispanic or Latino
Education Level: Less than high school degree
Marital Status: S

Insurance: N/A

Health Concerns: 1
Active Problems: 1
Active Goals: 1
Active Action Steps: 0

Health Concerns

Assessment Name: Questionnaire/93025-9
Assessment Date: Oct 28, 2021, 18:33 PM

Import Assessment
Persona exemplar:

Esperanza Córdova

Ms. Córdova indicated she or her family were unable to get food when they needed it in the last year.

As part of the the patient-provider conversation, “Food insecurity” is identified as an assessed need.

Together they agree on a Goal of referral to a community meals service.
Coded diagnoses in the provider’s EHR

Ms. Esperanza675 Córdova800

Patient ID: 62928
Day of Birthday: 1972-05-28
Gender: Female
Primary Language: Spanish

Home Address: 518 Heidenreich Loaf Suite 57 Charlotte, NC 28204
Phone Number: 555-891-7343
Email Address: N/A
Employment Status: N/A

Race: White
Ethnicity: Hispanic or Latino
Education Level: Less than high school degree
Marital Status: S

Insurance: N/A

Active Problems

<table>
<thead>
<tr>
<th>Problem</th>
<th>Based on</th>
<th>Start Date</th>
<th>Goal(s)</th>
<th>Action Steps</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food insecurity</td>
<td>Questionnaire/93025-5 and Conversation with Patient</td>
<td>Nov 11, 2021, 0:00 AM</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>
Coded diagnoses in the provider’s EHR
Structured goals in the provider’s EHR
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](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
  • Submit Social Connection Vote by 11/15
    https://confluence.hl7.org/display/GRAV/Social+Connection

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

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

• Stress
  • Review 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