Consensus-driven Standards on Social Determinants of Health

Social Connection, Elder Abuse & Demographics Goals and Interventions Kickoff
August 19, 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: https://confluence.hl7.org/pages/viewpage.action?pageId=46892669#JointheGravityProject-GravityProjectMembershipList

• For all other Gravity Project information, please visit: https://confluence.hl7.org/display/GRAV/The+Gravity+Project
Project Founders, Grants, and In-Kind Support To-Date

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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<thead>
<tr>
<th>Topic</th>
<th>Presenter</th>
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<td>Announcements</td>
<td>Sarah</td>
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<td>Project Schedule and Overview</td>
<td>Sarah</td>
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<tr>
<td>Social Connection, Elder Abuse &amp; Demographics Goals and Interventions Kickoff</td>
<td>Sarah</td>
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<td>Policy Update</td>
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<td>Technology Update</td>
<td>Bob</td>
</tr>
<tr>
<td>Community Homework and Next Steps</td>
<td>Sarah</td>
</tr>
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</table>

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

- HL7 SDOH CC FHIR IG Public Meetings, Wednesdays 3pm – 4pm EST
- CyncHealth Annual Conference, Sept 20th-21st
- Congressional SDOH Caucus

See more details regarding Gravity’s announcements here: https://confluence.hl7.org/pages/viewpage.action?pageId=91996855 #TheGravityProject-Announcements
Terminology Build

- Released - USDA Food Security Tools, We Care
- Submitted and in queue
  - Gold standard tools – ex. CHW Housing Vital Sign
  - Comprehensive national standardized tools (AAFP, Upstream Risk, Health Leads, etc.)

- Submitted
  - 09/21 – Coordination and Maintenance Committee Meeting
- Released
  - 10/21 - Release food insecurity and housing terminology

- Released -
  - 03/21 - Food Insecurity Set
- Summer Authoring Period
- Release
  - 09/21 - The majority of: Housing Instability/ Homelessness/ Inadequate Housing
- NEXT- All domain Dx build with considerations for international use
SDOH Data Elements and Status

- Links to spreadsheets with all current released and implementable code
- Updates after every terminology release (LOINC, SNOMED, ICD-10-CM)

**Links to spreadsheets with all current released and implementable code**

**Updates after every terminology release (LOINC, SNOMED, ICD-10-CM)**

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**FOOD INSECURITY**

- Screeners (LOINC)
- Diagnoses (SNOMED CT, ICD-10)
- Goals (LOINC, SNOMED CT)
- Interventions (SNOMED CT)

<table>
<thead>
<tr>
<th>Domain</th>
<th>Activities (Aligns with USCDI SDOH Data Class)</th>
<th>Select Codes Present</th>
<th>Comprehensive List of Codes Present</th>
<th>Link to Codes to Date Spreadsheet</th>
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<td>Screeners (LOINC)</td>
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<td>x</td>
<td>Food Insecurity Terms with Currently Available Codes 6/30/2021</td>
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<td>Diagnoses (SNOMED CT, ICD-10)</td>
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<td>Goals (LOINC, SNOMED CT)</td>
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<td>Interventions (SNOMED CT)</td>
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**HOUSING INSTABILITY**

- Screeners (LOINC)
- Diagnoses (SNOMED CT, ICD-10)
- Goals (LOINC, SNOMED CT)
- Interventions (SNOMED CT)

<table>
<thead>
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<th>Domain</th>
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<td>Diagnoses (SNOMED CT, ICD-10)</td>
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<td>Goals (LOINC, SNOMED CT)</td>
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<td>Interventions (SNOMED CT)</td>
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**HOMELESSNESS**

- Screeners (LOINC)
- Diagnoses (SNOMED CT, ICD-10)
- Goals (LOINC, SNOMED CT)
- Interventions (SNOMED CT)

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<tr>
<th>Domain</th>
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<td>Diagnoses (SNOMED CT, ICD-10)</td>
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<td>Goals (LOINC, SNOMED CT)</td>
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<td>Interventions (SNOMED CT)</td>
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**INADEQUATE HOUSING**

- Screeners (LOINC)
- Diagnoses (SNOMED CT, ICD-10)
- Goals (LOINC, SNOMED CT)
- Interventions (SNOMED CT)

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<td>Inadequate Housing Terms with Currently Available Codes posted 6/28/2021</td>
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<td>Diagnoses (SNOMED CT, ICD-10)</td>
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<td></td>
<td>Interventions (SNOMED CT)</td>
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**SDOH Data Elements and Status**

**https://confluence.hl7.org/display/GRAV/SDOH+Data+Elements+And+Status**
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
- IG V2 (new functionality and feedback from testing activities)
- Gravity FHIR IG V2 Ballot
- HL7 FHIR Connectathons
- SDOH FHIR IG Pilots

Pilots
- CMS Connectathon

Key
- ▲ LOINC Code Submissions (MAR/OCT)
- ★ SNOMED Code Submissions (MAY/DEC)
- ◇ ICD-10 Code Submissions (JUN/DEC)
- ——— Goals/Interventions

WE ARE HERE

8/20/21
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 Roadmap

Key
- ▲ LOINC Code Submissions (MAR/OCT)
- ★ SNOMED Code Submissions (MAY/DEC)
- ◆ ICD-10 Code Submissions (JUN/DEC)
- ○ Goals/ Interventions

Pilots

- Terminology Pilots (Tier 1)

WE ARE HERE

INADEQUATE HOUSING
TRANSPORTATION INSECURITY
FINANCIAL INSECURITY
UNEMPLOYMENT
EDUCATION
VETERANS

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

- SOCIAL CONNECTION
- STRESS
- MATERIAL HARDSHIP
- ELDER ABUSE
- INTIMATE PARTNER VIOLENCE (IPV)
- SOCIAL CONNECTION
- STRESS
- ELDER ABUSE
- INTIMATE PARTNER VIOLENCE (IPV)

Break
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<tr>
<th>Date</th>
<th>Gravity WG Meeting Tasks</th>
<th>Homework</th>
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<tbody>
<tr>
<td>8/19</td>
<td>Social Connection, Elder Abuse &amp; Demographics: Goals and Interventions Kickoff</td>
<td>Submit: Social Connection, Elder Abuse &amp; Demographics Programs and Professions</td>
</tr>
<tr>
<td>9/02</td>
<td>Social Connection, Elder Abuse &amp; Demographics: Goals and Interventions Concepts</td>
<td>Submit: Social Connection, Elder Abuse &amp; Demographics Programs and Professions</td>
</tr>
<tr>
<td>9/16</td>
<td>Social Connection, Elder Abuse &amp; Demographics: Goals and Interventions Concepts</td>
<td>Submit: Social Connection, Elder Abuse &amp; Demographics Programs and Professions</td>
</tr>
<tr>
<td>9/30</td>
<td>IPV &amp; Stress: Goals and Interventions Kickoff</td>
<td>Review: Social Connection, Elder Abuse &amp; Demographics Programs and Professions</td>
</tr>
<tr>
<td></td>
<td>Social Connection, Elder Abuse &amp; Demographics: Goals and Interventions End to End Review</td>
<td>Submit: IPV &amp; Stress Programs and Professions</td>
</tr>
<tr>
<td>10/14</td>
<td>Social Connection, Elder Abuse &amp; Demographics: Goals and Interventions Consensus Vote</td>
<td>Submit: IPV &amp; Stress Programs and Professions</td>
</tr>
<tr>
<td></td>
<td>IPV &amp; Stress: Goals and Interventions Concepts</td>
<td></td>
</tr>
</tbody>
</table>
Gravity Project Terminology Engagement Guide: General

• The intent of our public calls is to present updates of Gravity materials and offer opportunities for the community to reflect and discuss implications.

• The community has a critical role in ensuring content is representative of needs. We welcome ideas for additional or altered content to be submitted via Gravity Process available [here](#).

• Within the terminology end-to-end review process, one needs to offer *rationale with evidence* for suggested alternate approaches.

• All elements must be assessed by our subject matter experts prior to inclusion in the set.
Gravity Project Engagement Guide: Domains

• If one has questions about domains covered in previous builds, please review materials provided and reach out to gravityproject@emiadvisor.net with questions or concerns.
  • Our team will add relevant links on past domains into the chat as able.

• Of note: We gather subject matter experts by domain, if we touch upon concepts that cross domains we’ve yet to cover, we must pause on build of these concepts, however, we will ensure, to the best of our ability, that both the project plan and taxonomy structure allow for additions of these new domains in time
  • Ex: literacy as driver of material hardship
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 Team

Director of Clinical Informatics: Dr Sarah DeSilvey, DNP, FNP-C, RN

Lead Terminology Consultant: Linda Hyde, RHIA

Community Liaison and Public Health Consultant: Asha Immanuelle, MAS, RN, PHM-C

Terminology Consultant: Katiya Shell, MPH, PMP
Intervention Council
Intervention Council

- The Intervention Council (IC) will work to identify the interventions that are critical to addressing social risk and population health, including clinic and community programs, as well as necessary roles and professions.

- Timeline for the first phase is expected to last 3-4 months with bi-weekly meetings started in July.

- Beginning the IC work with the Demographics domain: Educational Attainment, Employment & Veterans Status.
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.
Social Connection, Elder Abuse & Demographics: Goals and Interventions Kickoff
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
  • Less than a high school education
  • Veteran Status
  • Unemployed
  • Psychological Stress
  • Social Connection: Social Isolation, Loneliness, Lack of Social Support
  • Intimate Partner Violence
  • Elder Abuse
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
# Intervention Structure

<table>
<thead>
<tr>
<th>Gravity Term</th>
<th>Definitions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assistance/ Assisting</td>
<td>To give support or aid to; help</td>
</tr>
<tr>
<td>Coordination</td>
<td>Process of organizing activities and sharing information to improve effectiveness</td>
</tr>
<tr>
<td>Counseling</td>
<td>Psychosocial procedure that involves listening, reflecting, etc. to facilitate recognition of course of action / solution.</td>
</tr>
<tr>
<td>Education</td>
<td>Procedure that is synonymous with those activities such as teaching, demonstration, instruction, explanation, and advice that aim to increase knowledge and skills.</td>
</tr>
<tr>
<td>Evaluation of eligibility (for &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>
Goals Development

- The core of goals is representing the “desired for state” when one has a social need.
- In past build, the Gravity Project has taken the tack of building 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>
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</thead>
<tbody>
<tr>
<td>Food Insecurity</td>
<td>Food Security</td>
<td>Homelessness</td>
<td>Stably Housed</td>
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<td>Homeless, sleeping safely</td>
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</tbody>
</table>

- Has adequate number of meals and snacks daily
- Has adequate quality meals and snacks
Demographics - Interventions

Less than a high school education

Unemployment
Social Connection

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

- SMEs: Dr Ron Acierno, Dr Jason Burnett, Dr Zach Gassoumis, Dr Tony Rosen
Questions?

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USCDI v2: If you have not heard . . . Great news!

- On July 9, ONC published the final USCDI version 2, and it includes the Gravity Project’s SDOH data elements for nationwide interoperable exchange!

<table>
<thead>
<tr>
<th>Existing USCDI Data Class</th>
<th>New Data Element</th>
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</thead>
<tbody>
<tr>
<td>Assessment and Plan of Treatment</td>
<td>SDOH Assessment</td>
</tr>
<tr>
<td>Goals</td>
<td>SDOH Goals</td>
</tr>
<tr>
<td>Procedures</td>
<td>SDOH Interventions</td>
</tr>
<tr>
<td>Problems</td>
<td>SDOH Problems/Health Concerns</td>
</tr>
</tbody>
</table>

- Thank you to the entire Gravity Community for this groundbreaking contribution!

- Other related data elements, too, such as all care team members, sexual orientation, and gender identity.
USCDI v2: Gravity helps move SDOH into action! In 2 years!

- **Jul 2019**: Gravity begins work on first domain, food insecurity
- **Dec 2019**: Gravity begins work on SDOH FHIR implementation guide
- **Oct 2020**: Gravity submits SDOH data elements to ONC
- **Nov 2020**: Gravity community begins submitting letters of support
- **Apr 2021**: USCDI Task Force recommends including Gravity Project’s SDOH data elements in USCDI v2; ONC’s HIT Advisory Committee unanimously approves
- **July 2021**: ONC releases USCDI v2 and adds SDOH data elements for nationwide interoperability
- **July 2021**: HL7 publishes Gravity’s SDOH Clinical Care FHIR IG
USCDI v3

• ONC’s USCDI Task Force invited Evelyn Gallego to present on the Gravity Project’s work, plans for USCDI v3, and priorities and recommendations the Task Force should consider for v3.

• Task Force members were very engaged and interested in how to implement and use the Gravity standards in health care.

• Task Force co-chairs asked how the Task Force could advance the Gravity Project’s work in USCDI v3.

• Submissions for USCDI v3 are due September 30, 2021.
Gravity Project’s vision for USCDI v3 and beyond

<table>
<thead>
<tr>
<th>FHIR Implementation Guides / Use Cases</th>
<th>Data Elements</th>
<th>Domains*</th>
<th>Code Systems / Value Sets</th>
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<tbody>
<tr>
<td>• SDOH Clinical Care IG</td>
<td>• Assessments</td>
<td>• Food insecurity</td>
<td>• LOINC</td>
</tr>
<tr>
<td>• SDOH Social Care IG</td>
<td>• Problems/Health concerns</td>
<td>• Housing instability</td>
<td>▪ Assessments</td>
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<tr>
<td>• SDOH Quality Measurement IG</td>
<td>• Goals</td>
<td>• Homelessness</td>
<td>▪ Goals</td>
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<tr>
<td>• SDOH Population Health IG</td>
<td>• Interventions</td>
<td>• Inadequate housing</td>
<td>▪ Outcomes (e.g., quality measures)</td>
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<tr>
<td>• SDOH Public Health IG</td>
<td>• Outcomes</td>
<td>• Transportation insecurity</td>
<td>▪ SNOMED-CT</td>
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<tr>
<td>• SDOH Directory Services IG</td>
<td>• Consent</td>
<td>• Financial insecurity</td>
<td>▪ Problems/Health concerns (clinical)</td>
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<tr>
<td>• SDOH Research IG</td>
<td>• Data aggregation</td>
<td>• Material hardness</td>
<td>▪ Goals</td>
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<td></td>
<td>• Billing</td>
<td>• Employment status</td>
<td>▪ Interventions (clinical)</td>
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<tr>
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<td>• Health insurance</td>
<td>• Educational attainment</td>
<td>▪ ICD-10-CM</td>
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<td>• Veteran status</td>
<td>▪ Problems/Health concerns (billing)</td>
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<td>• Stress (general)</td>
<td>▪ CPT/HCPCS</td>
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<td>• Social isolation</td>
<td>▪ Interventions (billing, where available)</td>
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<td>• Intimate partner violence</td>
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<td>• Elder abuse</td>
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<td>• Food deserts</td>
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<td>• Neighborhood safety</td>
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<td>• Health literacy</td>
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<td>• Minority &amp; Relationship stress</td>
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<td>• Racism/discrimination/bias (more work, beyond mid-2022)</td>
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*List not exhaustive for 2022 and beyond. Domains are grounded in the Institute of Medicine’s “Capturing Social and Behavioral Domains in Electronic Health Records” (2014).
Questions?

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**Technical Roadmap**

<table>
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<th>FEB</th>
<th>MAR</th>
<th>APR</th>
<th>MAY</th>
<th>JUN</th>
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<th>AUG</th>
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<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>Gravity FHIR IG V2 Ballot</td>
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<tr>
<td>Pilots</td>
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<td>Update User Stories</td>
<td>Reference Implementation Update</td>
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<td>CMS Connectathon</td>
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<td>WE ARE HERE</td>
<td>SDOH FHIR IG Pilots</td>
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<td>Major Milestone – IG Published by HL7 as STU1</td>
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The Gravity Project is pleased to announce the formal publication of the HL7 FHIR SDOH Clinical Care Implementation Guide (IG): http://hl7.org/fhir/us/sdoh-clinicalcare/STU1/

The IG is supported by a Reference Implementation (RI): https://github.com/FHIR/Gravity-SDOH-Exchange-RI/blob/main/README.md

The most updated RI will be used to test the SDOH FHIR IG at the September 13-15, 2021 HL7 FHIR Connectathon.
1. Document SDOH data in conjunction with the patient encounter and define Health Concerns / Problems.
2. Patient and provider establish SDOH related goals.
3. Plan, communicate, and track related interventions to completion.
4. Measure outcomes.
5. Establish cohorts of patients with common SDOH characteristics for uses beyond the point of care (e.g., population health management, quality reporting, and risk adjustment/risk stratification).
6. Manage patient consent

http://hl7.org/fhir/us/sdoh-clinicalcare/STU1/
FHIR Connectathons

- CMS hosted a virtual Connectathon on July 20-22, 2021.
  - The Gravity Project lead the SDOH track
  - Over 40 individuals participated:

- HL7 FHIR September 13th-15th, 2021 Connectathon
  - The Gravity Project will lead the Social Determinants of Health (SDOH) track
  - Signup required by August 30th
    - [https://www.hl7.org/events/fhir/connectathon/2021/09/](https://www.hl7.org/events/fhir/connectathon/2021/09/)
  - Declare participation in Gravity’s track here:
    - [https://confluence.hl7.org/display/GRAV/Connectathon+Participation+Sign-Up](https://confluence.hl7.org/display/GRAV/Connectathon+Participation+Sign-Up)
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 Isolation programs and professions
    https://confluence.hl7.org/display/GRAV/Social+Connection

• Elder Abuse
  • Submit Elder Abuse programs and professions
    https://confluence.hl7.org/display/GRAV/Elder+Abuse

• Demographics
  • Submit Demographics programs and professions
    https://confluence.hl7.org/display/GRAV/Demographics+Domain
Join the Gravity Project!

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

• Public Collaborative meets bi-weekly on Thursdays 4:00 to 5:30pm ET
• SDOH FHIR IG Workgroup meeting weekly Wednesdays 3:00 to 4:00pm ET

• 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

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

Help us find new sponsors and partners
Partner with us on development of blogs, manuscripts, dissemination materials

8/20/21
Questions?

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