

# The Gravity Project

Food Insecurity Data Sets

September 12, 2019

[SIRENetwork.ucsf.edu](http://SIRENetwork.ucsf.edu)



# Welcome

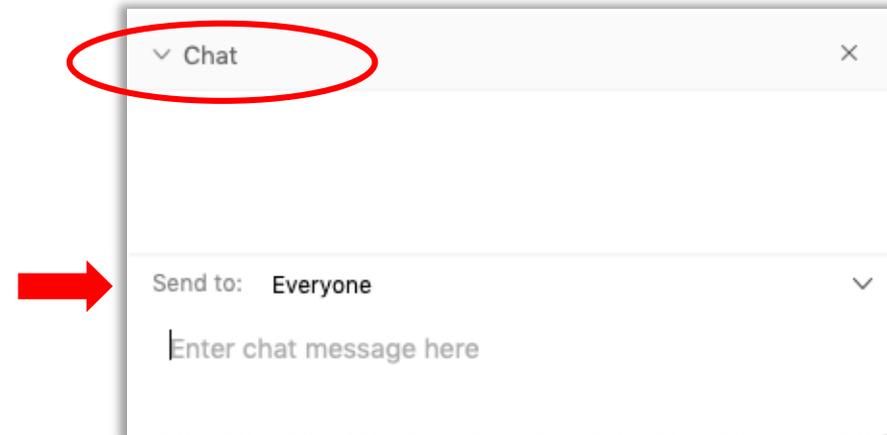
Thank you for joining the **Gravity Project** Workgroup meeting!

Due to the large number of attendees, participants are **muted upon entry**. Please remain muted to avoid background noise.

- This call is being recorded; recording will be available on the Gravity Confluence page following the meeting.

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.”**



We will review and try to address all comments submitted during the call. If you are experiencing technical difficulties, please contact [lynette.elliott@emiadvisors.net](mailto:lynette.elliott@emiadvisors.net).

# 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>

# Agenda

Topic	Presenter
Welcome & Announcements	Lynette
Review: Data Element Submission Summary	Linda
Discussion: Intervention Update Discussion: Secondary Diagnoses	Sarah
Next Steps	Lynette

Please submit questions and comments using the Webex chat feature.

# Announcements

- **WHAT:** 33<sup>rd</sup> Annual HL7 Plenary and Working Group Meeting: Gravity Birds of a Feather Session
- **WHEN:** Tuesday, Sept. 17 at 5:15pm ET
- **WHERE:** Atlanta Marriott Marquis hotel in Atlanta, GA
- To register for WGM:  
[http://www.hl7.org/events/working\\_group\\_meeting/2019/09/](http://www.hl7.org/events/working_group_meeting/2019/09/)
- Full brochure and schedule:  
[http://www.hl7.org/documentcenter/public\\_temp\\_45E1557F-1C23-BA17-0CF72AF5739BC769/brochures/wgm/HL7\\_WGM\\_20190709.pdf](http://www.hl7.org/documentcenter/public_temp_45E1557F-1C23-BA17-0CF72AF5739BC769/brochures/wgm/HL7_WGM_20190709.pdf)

# Gravity Project Schedule and Activities (Sept to Oct)

Week	Target Date	Gravity WG Meeting Tasks	Homework
 16	9/12	Food Insecurity Data Sets & Value Sets Gaps	Review Food Insecurity Master List
17	9/26	<b>CANCELED</b>	Review Food Insecurity Master List
18	10/10	Begin End-to-End Review: Working Session	Review Master List and Gravity Project Food Insecurity Definitions
19	10/17	End-to-End Review Working Session	Review Master List and Gravity Project Food Insecurity Definitions
20	10/24	End-to-End Review Working Session	Review Master List and Gravity Project Food Insecurity Definitions
21	10/31	End-to-End Review Working Session	Review Master List and Gravity Project Food Insecurity Definitions

# Gravity Project Schedule and Activities (Nov)

Week	Target Date	Gravity WG Meeting Tasks	Homework
22	11/7	<b>Consensus Voting: Food Insecurity Data Set and Definitions</b>	<b>Submit Consensus Votes</b>
23	11/14	<b>Consensus Voting: Food Insecurity Data Set and Definitions</b>	<b>Submit Consensus Votes</b>
24	11/21	<b>Overview of Consensus Voting Results and Dispositions</b>	<i>Submit: Housing Instability Data Elements</i>
25	11/28	<b>NO MEETING THANKSGIVING HOLIDAY</b>	<b>Happy Thanksgiving! Enjoy your holiday!</b>

# Review: Data Elements Submissions

# Submitting Organizations



# Data Concept Submissions by Type

Type	# Organizations
Screening	14
Diagnosis	11
Goal	5
Intervention	10

# Data Element Submissions Summary

**Total Submissions Received = 17**

Screening Tool/ Questions	Diagnosis	Goal	Intervention
56 Tools / 191 Questions	60	12	146

**Submissions Reviewed = 11**

Disposition	Disposition	Disposition	Interventions
Add – 1 Tools/45 Questions	Add – 1		Add - 14
Duplicates – 14 Tools/ 47 Questions	Duplicates – 8	Duplicate – 1	Duplicates – 37
Do Not Add – 16 Tools/72 Questions	Do Not Add – 6	Do Not Add - 2	Do Not Add – 4
<b>Info Needed – 8 Tools/8 Questions</b>			<b>Info Needed - 19</b>
Park - 2 Tools/ 4 Questions	Park - 2		Park - 2

**Total Submissions Returned\* = 5**

\* Adjudication completed and file returned to submitter with dispositions

# Adjudication Disposition Recap

Adjudication Status	Definition	Disposition
Duplicate Data Element	Conceptually similar, same code(s), same answers for questions	Submitter will be added as contributor for the data element in the Master file
Add Data Element	In scope, fit for purpose, not too broad and not too narrow	Data element will be added to the Masster file
Do Not Add - Park	Not in scope for this domain but may be useful for another Gravity Domain (housing insecurity, transportation)	Will be added to a Parking File for future review
Do Not Add	Not in scope for this domain or another Gravity domain, not well formed, not fit for purpose	Will be noted on adjudication file with reason
On-Hold (Info Needed)	Need additional clarification from submitter	Will be noted on adjudication file with additional information needed

# Disposition Examples

- Most Frequent Submissions
  - Screening – Hunger Vital Sign™, PRAPARE, AHC
  - Diagnosis – Insufficient food supply
  - Goal – Food security
  - Intervention – Education on Meals on Wheels, Education on Medically Tailored Meals, Nutrition counseling, Referral to community meal program
- Park – Housing screening
- Do Not Adds – screens specifically related to food access, income levels, financial strain

# Master File Review – Screening



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	A	D	E	F	G	H	I
	Domain	# Organizations	Relevant Screening Tool	LOINC Panel Code	LOINC Panel Name	Question Concept	
1	S-1	Food Insecurity	5	Hunger Vital Sign	88121-9	Hunger Vital Sign (HVS)	Within the past 12 months we worried whether our food would run out before we got money to buy more [U.S. FSS]
2	S-1	Food Insecurity	5	Hunger Vital Sign	88121-9	Hunger Vital Sign (HVS)	Within the past 12 months we worried whether our food would run out before we got money to buy more [U.S. FSS]
3	S-1	Food Insecurity	5	Hunger Vital Sign	88121-9	Hunger Vital Sign (HVS)	Within the past 12 months we worried whether our food would run out before we got money to buy more [U.S. FSS]
4	S-1	Food Insecurity	5	Hunger Vital Sign	88121-9	Hunger Vital Sign (HVS)	Within the past 12 months we worried whether our food would run out before we got money to buy more [U.S. FSS]
5	S-1	Food Insecurity	5	Hunger Vital Sign	88121-9	Hunger Vital Sign (HVS)	Within the past 12 months we worried whether our food would run out before we got money to buy more [U.S. FSS]
6	S-2	Food Insecurity	4	Hunger Vital Sign	88121-9	Hunger Vital Sign (HVS)	Within the past 12 months the food we bought just didn't last and we didn't have money to get more [U.S. FSS]
7	S-2	Food Insecurity	4	Hunger Vital Sign	88121-9	Hunger Vital Sign (HVS)	Within the past 12 months the food we bought just didn't last and we didn't have money to get more [U.S. FSS]
8	S-2	Food Insecurity	4	Hunger Vital Sign	88121-9	Hunger Vital Sign (HVS)	Within the past 12 months the food we bought just didn't last and we didn't have money to get more [U.S. FSS]
9	S-2	Food Insecurity	4	Hunger Vital Sign	88121-9	Hunger Vital Sign (HVS)	Within the past 12 months the food we bought just didn't last and we didn't have money to get more [U.S. FSS]
10	S-3	Food Insecurity	1	Hunger Vital Sign	88121-9	Hunger Vital Sign (HVS)	
11	S-3	Food Insecurity	1	Hunger Vital Sign	88121-9	Hunger Vital Sign (HVS)	
12	S-4	Food Insecurity	4	AHC			Within the past 12 months, you worried that your food would run out before you got money to buy more
13	S-4	Food Insecurity	4	AHC			Within the past 12 months, you worried that your food
14	S-4	Food Insecurity	4	AHC			Within the past 12 months, you worried that your food
15	S-8	Food Insecurity	4	AHC			Within the past 12 months, the food you bought just didn't
16	S-8	Food Insecurity	4	AHC			Within the past 12 months, the food you bought just didn't
17	S-8	Food Insecurity	4	AHC			Within the past 12 months, the food you bought just didn't

# Master File Review – Diagnosis and Goals

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	A	B	C	D	E	F	G	H	I	J
1	id	Domain	# Organization	Diagnosis/Assessed Need	Diagnosis Type	SNOMED CT Code	SNOMED CT Fully Specified Name	Semantic Type	ICD-10-CM Code	ICD-10-CM Description
2	D-1	Food Insecurity	3	Food Insecurity	Primary	733423003	Food insecurity (finding)	finding	Z59.4	Lack of adequate food and safe drinking
3	D-2	Food Insecurity	4	Food Insecurity	Primary	706875005	Insufficient food supply (finding)	finding	Z59.4	Lack of adequate food and safe drinking
4	D-3	Food Insecurity	1	Food Insecurity	Primary	445281000124101	Nutrition impaired due to limited access to healthful foods (finding)	finding		
5	D-4	Food Insecurity	1	Food Insecurity	Primary	445271000124104	Nutrition impaired due to limited access to nutrition related supplies (finding)	finding		
6	D-5	Food Insecurity	2	Food Insecurity	Primary					
7	D-6	Food Insecurity	1	Marginal food security	Primary					

	A	B	C	D	E	F
1	id	Domain	# Organizations	Goal	Goal Type	
2	G-1	Food Insecurity	4	Food security	Patient	
3	G-2	Food Insecurity	1	Food insecurity screened and intervened	Patient	
4	G-3	Food Insecurity	1	Decrease depth of food insecurity	Both	
5	G-4	Food Insecurity	1	Decline in prevalence of food insecurity	Population	

# Master File Review – Interventions

	A	B	C	D	E	F	G
1	id	Domain	# Organization:	Intervention Type	Intervention	SNOMED CT Code	SNOMED CT Fully Specified Name
2	I-9	Food Insecurity	3	() Counseling	Nutrition counseling	441041000124100	Counseling about nutrition (procedure)
3	I-9	Food Insecurity	2	() Counseling	Nutrition counseling	441231000124100	Counseling about nutrition using health belief model (procedure)
4	I-22	Food Insecurity	4	() education	Medically Tailored Meals Education		
5	I-23	Food Insecurity	2	() Education	Nutrition education	445301000124102	Content-related nutrition education (procedure)
6	I-38	Food Insecurity	3	Assistance with ()	Assistance with application for Home delivered meals		
7	I-59	Food Insecurity	3	Evaluation of eligibility for ()	Evaluation of eligibility for Special supplemental nutrition program for women, infants and children		
8	I-66	Food Insecurity	5	Provision of ()	Provision of food	710925007	Provision of food (procedure)
9	I-76	Food Insecurity	4	Referral to ()	Referral to community meal program	713109004	Referral to community meals service (procedure)
10	I-83	Food Insecurity	3	Referral to ()	Referral to social worker		
11	I-87	Food Insecurity	2	Assessment of ()	Assessment for food insecurity		

# How to Review Food Insecurity Adjudicated Data Submissions (Master List)

<https://confluence.hl7.org/pages/viewpage.action?pageId=55938680#FoodInsecurityDomain-FoodInsecurityMasterList>

- Master List with adjudicated data elements will be published on Confluence page (by Friday COB following a public call)

# Discussion: Update on Interventions

# Intervention Structure Recap

- There is a structure and pattern of terminology that undergirds standard interventions within the clinical space (medications, immunizations, referrals to other providers and specialties).
- Few of the interventions to address the social determinants fit within these existing terminologies.
- Thus we need to build the framework of how we care for social needs in SNOMED CT in order to have consistency across settings.
- This attempt tries to account for the many settings and roles across clinics and communities.

# Interventions Framework II

- **Referral to** (\_\_\_\_\_) – (Insert role) a type of order wherein clinicians/providers request services and/or assessment from other professionals and/or programs
- **Provision of** (\_\_\_\_\_) (direct supports/aid) For the purposes of our project provision covers any concrete support that is able to be given to the patient directly at the point of service
- (\_\_\_\_\_) **Counseling** – Psychosocial procedure that involves mental/behavioral strategies such as listening, reflecting, etc. to facilitate recognition of course of action / solution.
- (\_\_\_\_\_) **Education** – Procedure that is synonymous with those activities such as teaching, demonstration, instruction, explanation, and advice that aim to increase knowledge and skills, change behaviors, assist coping
- **Assessment** of (\_\_\_\_\_) – Assessment includes both the process of provider clinical observation and interpretation and the utilization of assessment tools. In both activities the aim is to arrive at outcomes that define the status of the patient in order to guide further care.
- **Evaluation** of eligibility for (\_\_\_\_\_) – Chosen to mark the activities prior to determination of eligibility. (Crucial for federal food assistance programs)
- **Assistance** with (\_\_\_\_\_) – Non-clinical aid with the tasks of care: applications, setting up appointments, etc.
- **Coordination** of (\_\_\_\_\_) - organizing activities and sharing information

# Interventions Framework Straw Poll Actions

Questions on goals and barriers	<ul style="list-style-type: none"><li>• Education on (nutrition skills, nutrition, conditions) With any member of the care team as the person (family, patient, case worker)</li><li>• Assessment of patient goals</li><li>• Assessment of barriers</li><li>• Assessment of progress toward goals</li><li>• Coordination of care plan/care team</li></ul>
Questions on how to differentiate counsel and education	Counseling for barriers <ul style="list-style-type: none"><li>• To engagement</li><li>• To goals</li></ul>
Questions on how to represent engagement	Counseling for readiness

# Discussion: Roles Recap Update

- In our past presentations we discussed roles, the taxonomy of roles in health care settings, and what is and what is outside of scope for this work.
- To refresh, it is outside of the scope of this work to create unique discrete codes within a taxonomy for all roles (Food Bank, MTM Purveyor, etc...)
- But! We are committed to building the language to refer to these roles (ex: “Referral to Medically Tailored Meals”) and we are committed to crafting terminology that can be shared across broad community settings.

# Discussion: Secondary Diagnoses

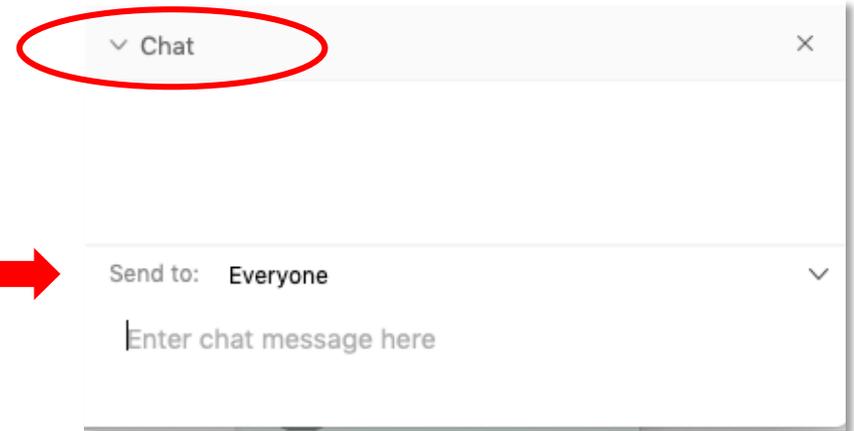
- Diagnoses are categorized as Primary or Secondary
- Primary represent those with the sole focus on Food Insecurity
- Secondary diagnoses are selected concepts from the Academy of Nutrition and Dietetics' Nutrition Care Process Terminology

Recommend removal of the **secondary diagnoses** from the value set

# 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.



# Next Steps

# Next Steps

- Respond to Food Insecurity submission questions and/or requests for clarification
  - If you have received an email with questions regarding your Food Insecurity submission, **please respond by no later than next Thursday, September 19** for your submission to be included.

Thank you for participating in this national  
consensus-building process.

Additional questions? Contact: [gravityproject@emiadvisors.net](mailto:gravityproject@emiadvisors.net)