

https://sirenetwork.ucsf.edu





- National research and dissemination initiative
- Housed at the University of California, San Francisco
- Founded in June 2016
- Focused on building and disseminating evidence about health care sector strategies to improve social conditions.





siren

Social Interventions Research & Evaluation Network







Catalyze & conduct high quality research

Collect & disseminate research findings Provide evaluation, research & analytics consultation **SERVICES**@SIREN_UCSF







Growing interest in addressing SDH in clinical settings

Insurance Companies and Healthcare Providers Are Investing Millions in Social Determinants of Health Programs

PHYSICIAN HEALTH

'athology

When patients' social needs are met, doctors feel less burnout

CVS-Aetna is partnering with a New York-based social care platform to bring social services to high-risk members

Zachary Hendrickson Jul. 25, 2019, 10:42 AM



UnitedHealthcare
Awarding \$1.1
Million to
Northeast Ohio
Nonprofits to Help
Address Social
Determinants of
Health

CORP GOV

John Jannarone

CorpGov.com July 30, 2019

Solera Health, Blue Cross Blue Shield Institute team up on social determinants of health initiative

The two companies will work together to tailor a platform that will connect patients to community-based providers and other resources.

Health plans voice support for bill to address SDOH efforts

AMA, UnitedHealthcare Develop ICD-10 Codes to Support Social Determinants of Health

Best Practices to Develop a Social Determinants of Health Strategy

A discussion with members of Humana's Bold Goal team identified best practices for building a successful social determinants of health strategy.

Medicaid Beneficiaries Do Much Better When Plans Address Their Social Determinants of Health

July 25, 2019



INTEGRATING SOCIAL CARE INTO THE DELIVERY OF HEALTH CARE

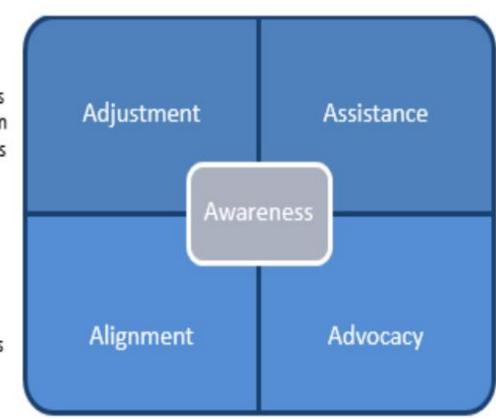
MOVING UPSTREAM TO IMPROVE THE NATION'S HEALTH

The National Academies of SCIENCES • ENGINEERING • MEDICINE

Five activities to facilitate integration between medical and social care.

Activities focused on individuals

Activities focused on communities



Sources of SDH data

Area-level (e.g. Census, other national surveys)

Patient-level

EHR (e.g. race/ethnicity, insurance status, language, etc.)

Publicly available (e.g. credit rating, criminal history, etc.)

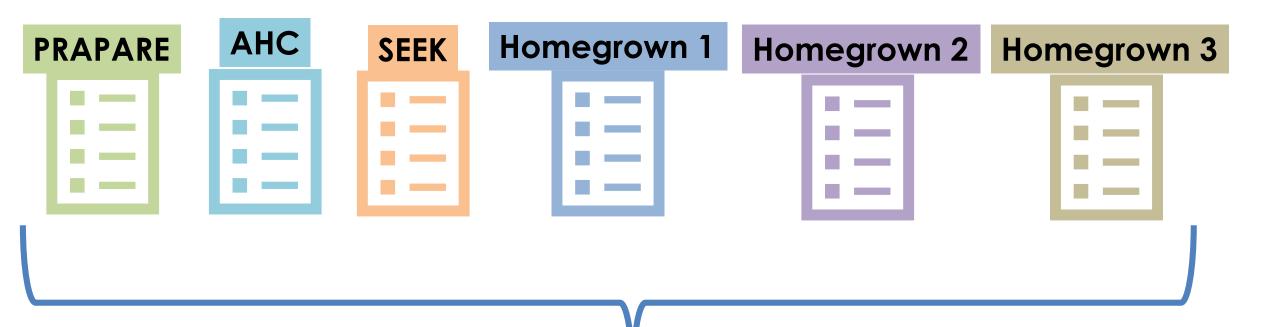
Patient-reported

Examples of social risk data being collected

- Food security
- Housing security
- Housing quality

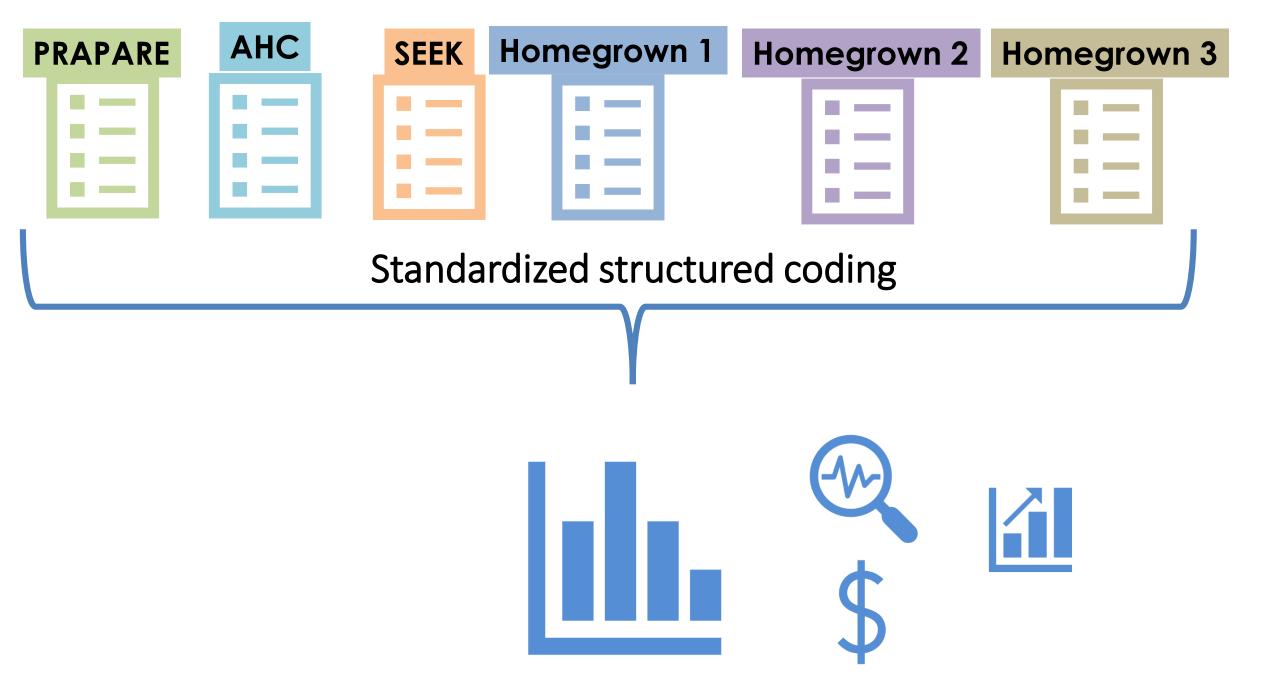
- Transportation
- Utility needs
- Legal needs
- Child care

- needs
- Safety concerns
- Social support









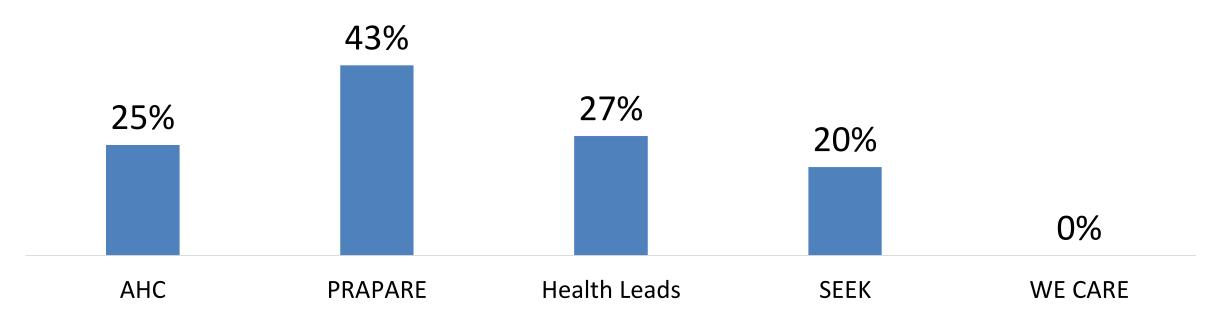
Codifiable domains in common social risk screening tools

AHC PRAPARE Health Leads SEEK WE CARE

Arons A, DeSilvey S, Fichtenberg C, Gottlieb L. <u>Documenting social determinants of health-related clinical activities using standardized medical vocabularies</u>. JAMIA Open. 2018;2(1):81-88. (http://sirenetwork.ucsf.edu/tools-resources/mmi/compendium-medical-terminology-codes-social-risk-factors)



Codifiable domains in common social risk screening tools



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Gravity Project Goals

Develop consensus on SDH-related concepts and codes in order to facilitate interoperable data use and aggregation.









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

- 1. Develop use case package
- 2. For each of food, housing, and transportation:
 - Develop consensus set of data elements
 - 2. Develop coding recommendations
 - 3. Develop HL7 FHIR Implementation Guide
 - 4. Test and refine



Project Process

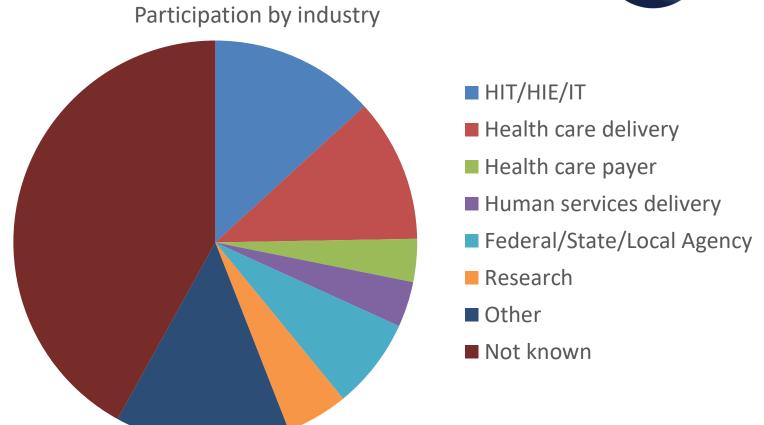
- Public process open to all
- Guided by steering committee (federal agencies, key experts)
- FHIR Accelerator Project of HL7



Participation



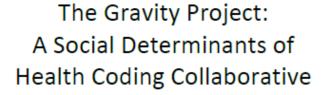
- 17 public calls since May launch
- Average of 107 participants / call
- Total of 806 participants



Project Deliverables To-Date



Gravity Use Case Package



Use Case Package

Version 1.2

9/30/2019

DISCLAIMER: This Use Case document was developed solely for informational and decisional purposes in the identification of coding standards for documenting and sharing social determinants of health data. This document is not policy binding, does not recommend policy directions, nor provide policy guidance.











Gravity PROJECT

- 2. Document and track SDH related interventions to completion
- 3. Gather and aggregate SDH data for uses beyond the point of care
- 2. Patient story
- 3. Personas

Published 9/30/2019

https://confluence.hl7.org/display/GRAV/Gravity+Use+Case+Package



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Food insecurity

gravity

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Food insecurity

Food insecurity

Data element submissions

56 tools 203 questions

1. Screening

60 data elements

2. Diagnosis

16 data elements

3. Goals

147 data elements

4. Interventions



Interventions frameworks

- Referral
- Provision of direct supports
- Counseling
- Education
- Assessment
- Evaluation of eligibility for services
- Assistance with benefits enrollment, appointments, etc.
- Coordination of services



Food program definitions

- Food pantry program
- Food prescription program
- Food provision program
- Home delivered meals
- Medically tailored meals
- School meal and snack program
- Summer meal and snack program
- Special supplemental nutrition program for women, infants, and children (WIC)
- Supplemental nutrition assistance program (SNAP)



<u>This Photo</u> by Unknown Author is licensed under <u>CC BY-SA-NC</u>





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Food insecurity

Oct-Dec '19

Nov '19-Jan '20

Dec '19-Jan '20

Feb-Sept '20



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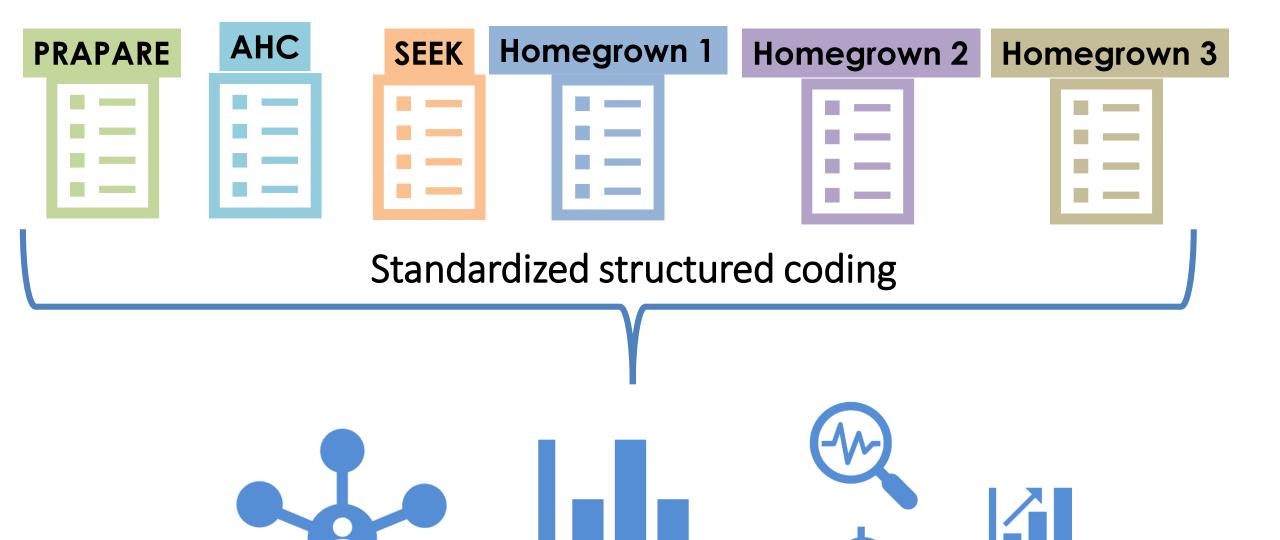
Housing

Dec-Jan '19

Jan '19-Apr '20

TBD

TBD



Gravity Project – Open Questions

- 1. Data privacy: What data should be documented in the EHR?
- 2. Preventing discrimination based on SDH
- 3. Perverse incentives, e.g., MassHealth



Questions?



<u>GravityProject@emiadvisors.net</u> <u>https://confluence.hl7.org/display/GRAV/The+Gravity+Project</u>

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