What Can the Healthcare Sector Do About Social Adversity?

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Disclosures

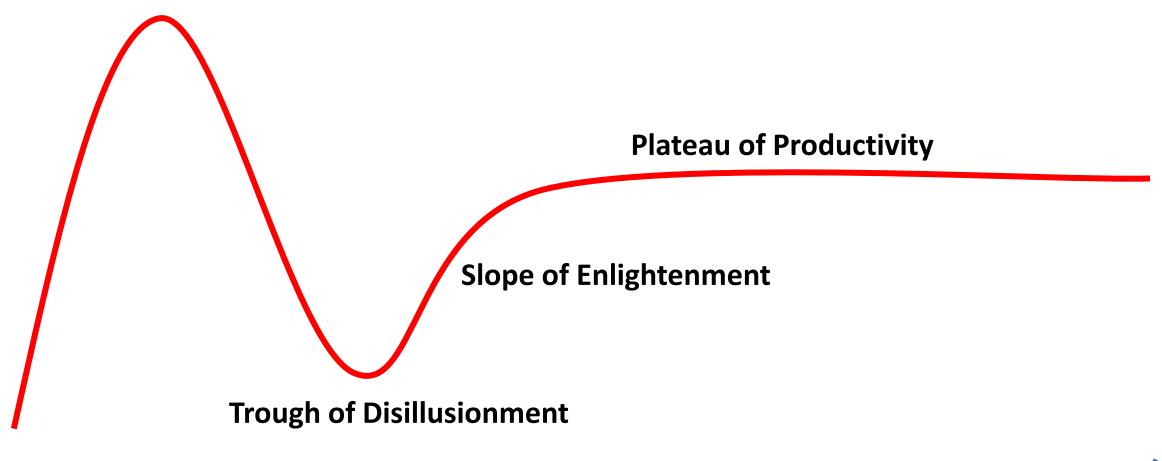
I sadly have nothing to disclose about funders who might have biased the content of today's presentation.

(If you have friends with deep pockets, though, feel free to reach out! I can change this slide.)

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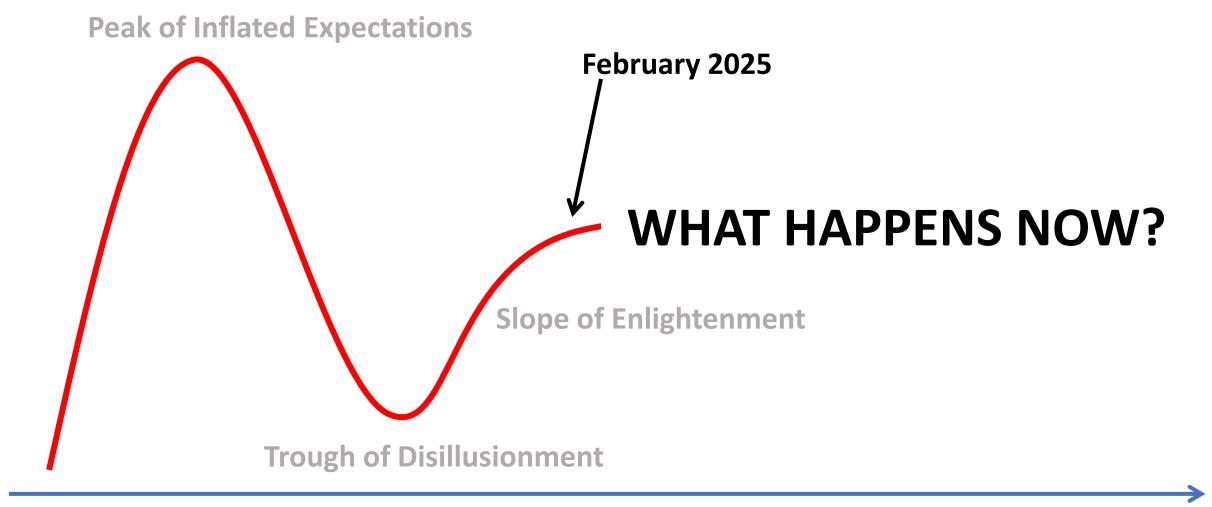
SDH in the healthcare innovation hype cycle





Time

New federal decisions have derailed SDH activities alongside other health equity initiatives



CONSENSUS STUDY REPORT

INTEGRATING SOCIAL CARE INTO THE DELIVERY OF HEALTH CARE

MOVING UPSTREAM TO IMPROVE THE NATION'S HEALTH

Patient care-focused strategies

Alignment
Align existing resources

Awareness
Identify social risk
factors

Assistance
Intervene on social risk
factors

Advocacy
Develop new resources

Adjustment
Accommodate care to social risk

Community-focused strategies

Patient care-focused strategies

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| Social & economic risk screening tool | Recommended Social and Behavioral Domains and Measures for Electronic Health Records | PRAPARE: Protocol for Responding to and Assessing Patient Assets, Risks, and Experiences | CMS Accountable Health Communities Screening Tool |
|---------------------------------------|--|---|---|
| Total # of questions | 24 | 21 | 10 |
| Housing | | | |
| Food | | | |
| Clothing | | | |
| Utilities (phone, gas, electric) | | | |
| Medicine/health care | | | |
| Child care | | | |
| Transportation | | | |
| Neighborhood safety | | | |
| Interpersonal violence/safety | | | |
| Physical Activity | | | |
| Social connections/isolation | | | |
| Stress | | | |

Social risk screening tools comparison table: https://sirenetwork.ucsf.edu/tools-

resources/mmi/screening-tools-comparison

Acceptability of screening to clinicians/staff

In several intervention studies, many provider concerns abated after program exposure.



Discomfort with Screening

Time & Workflow

Patient Provider Relationship & Trust

Ability to Address
Patient Needs

Concerns After Program Exposure

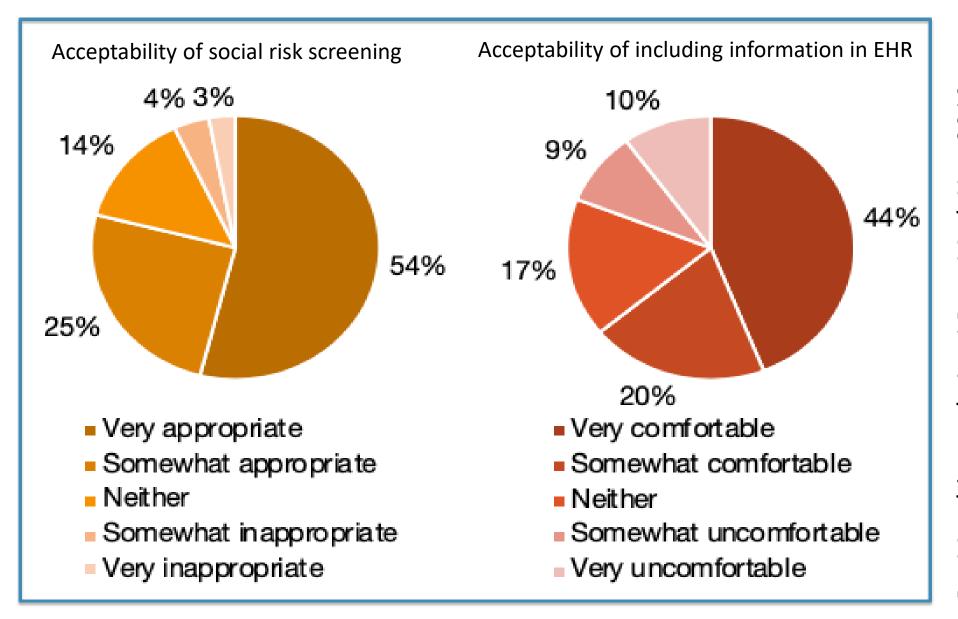
Participation in a screening and referral program improved provider comfort with social risk screening in 4 education and training intervention studies.

Providers frequently reported that time & workflow were not burdensome, less than anticipated, or worth the time following social determinant of health program participation.

Providers indicated that screening for social risks enhanced their relationship with patients or had no negative impact.

Provider confidence in addressing patient needs increased following social determinant of health program exposure in 3 studies, but overall provider concerns around the ability to provide adequate resources to address identified needs persisted.

Acceptability of screening to patients/caregivers



2019 Am J Prev Med, Nov <u>a</u> et Marchis,

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Functional components influence the relational

e.g., follow-up shows care

Functional Components (What social care is provided)

Screening

Follow-up (assessing needs fulfillment)

Resources and referrals

Drivers of Patient Experiences with Social Care

Relational components influence the functional

e.g., caring provider interactions made patients feel "supported," even if resources or referrals did not address their social need Relational Components (How social care is provided)

Demonstrations of genuine concern

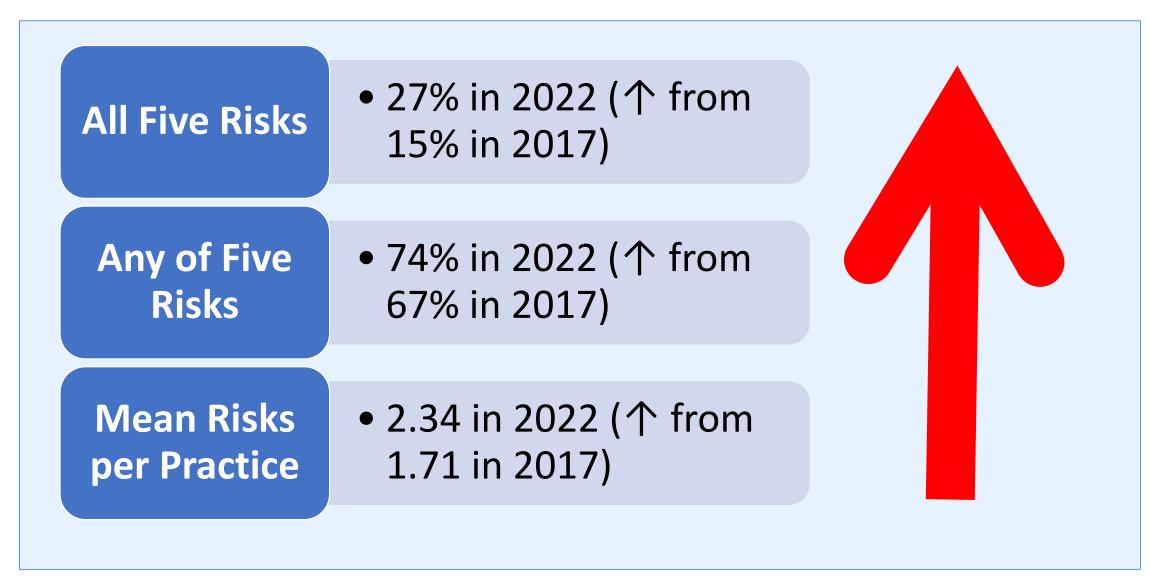
Transparency (rationale for screening)

Linguistic and cultural alignment

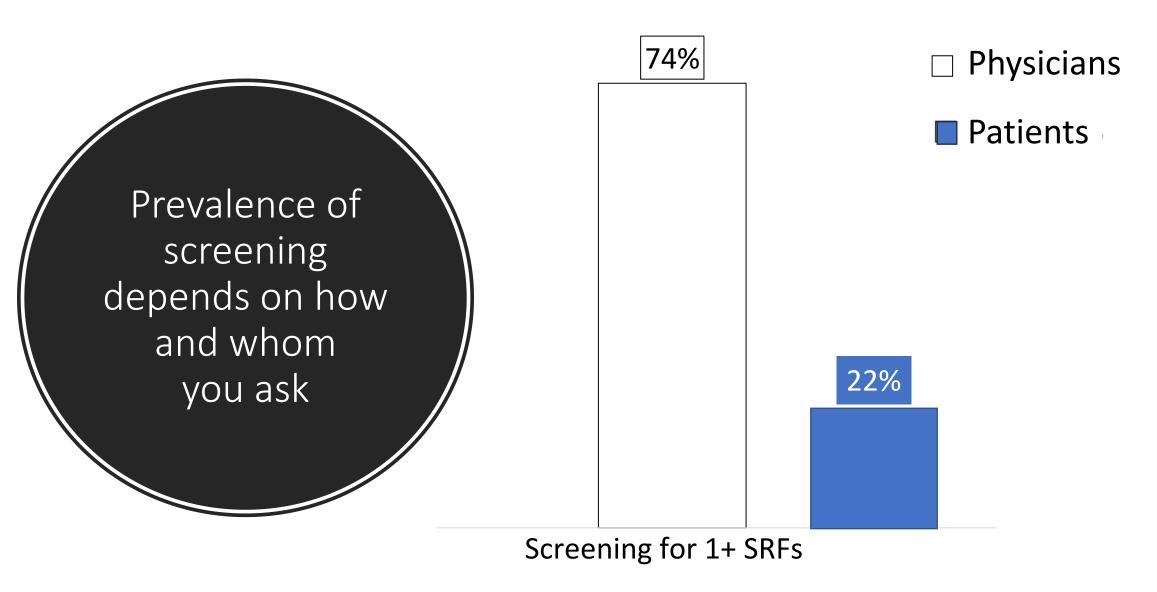
Tenure of patient-provider relationship

Potharaju K, Gottliel LM, Wing HE, et al. Drivers of patient experiences with healthcare-based social care. *Health Serv Res*. 2025:e70020

Increases in Social Risk Screening (2017-2022)



Brewster AL, Rodriguez HP, Murray GF, Lewis VA, Schifferdecker KE, Fisher ES. Trends in Screening for Social Risk in US Physician Practices. JAMA Netw Open. 2025;8(1):e2453117.



Does social risk screening = high quality care?

| Agency/Org (program) | NCQA HEDIS and Accreditation Measures | CMS IQR Measures |
|----------------------|--|---|
| Description | % of members screened at least once | % of patients screened for 5 HRSN (IQR and MIP): % of screened who report risk (IQR and MI) |
| Setting/Population | Health plans / all patients | Hospitals / 13+ |
| Domains/Instruments | Food, housing, & transportation security. Pre-specified instruments. | Food ousing, transportation & utilities security and interperson lence. Instruments not specified |



Social Care Z-codes

- Z59 Problems related to housing and economic circumstances
 - Lack of adequate food
 - Z59.41 Food insecurity
 - Homelessness/inadequate housing
 - Z59.00 Homelessness unspecified
 - Z59.01 Sheltered homelessness
 - Z59.02 Unsheltered homelessness
 - Z59.10 Inadequate housing, unspecified
 - Lack of transportation
 - Z59.82 Transportation insecurity



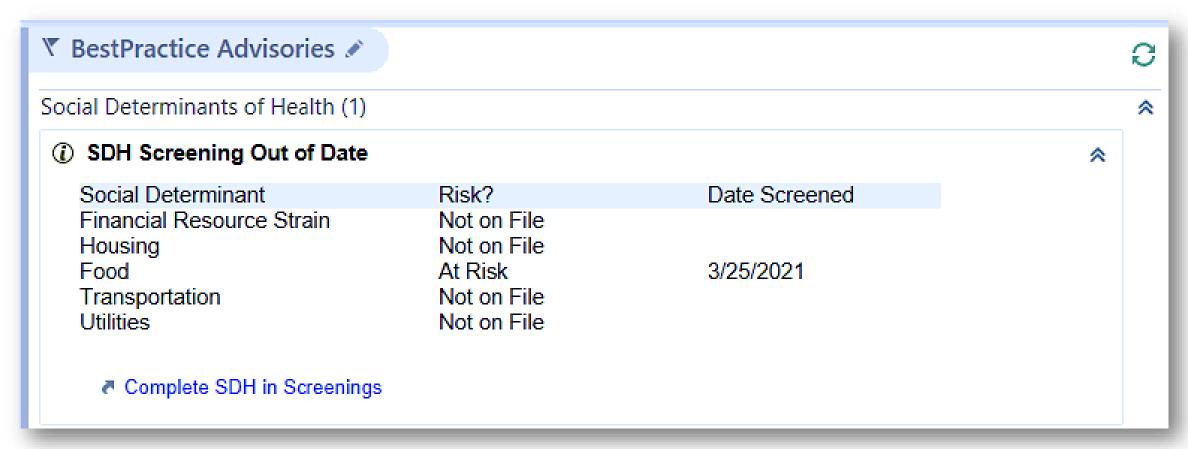
Examples, non-exhaustive

You can find medical codes that will meet federal reporting requirements at: https://confluence.hl7.org/display/GRAV/Social+Risk+Terminology+Value+Sets

Technology might facilitate Awareness activities

COHERE Study (NIMHD-funded social informatics research study)

 Alert to rooming staff re: SDH screening with a direct link to screening documentation screens



State of the Science on Social Screening in Healthcare Settings Executive Summary

Summer 2022



Evidence & Resource Library

Search Resource

Type Keyword

| Filters | Expand all | | |
|----------------------------------|------------|--|--|
| Resource Type ? | + | | |
| Study Design ⑦ | + | | |
| Population ⑦ | + | | |
| Outcome ③ | + | | |
| Social Determinant of Health ? + | | | |
| Screening Research | ? | | |
| ✓ Yes | | | |

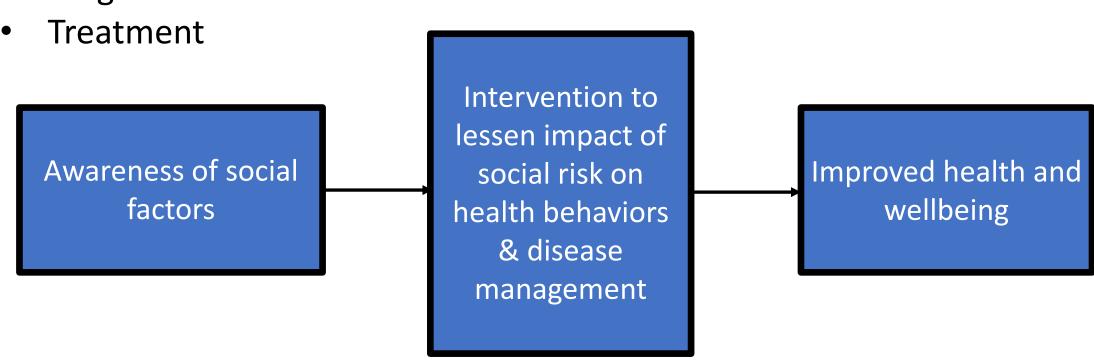


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Adjustment strategies

Adjust care to social context, e.g.:

- Access
- Diagnostics





Adjustment strategies: Diabetes case

| Clinical decisions influenced by social risk | Examples |
|--|----------|
| | |

Target level of blood sugar control

Increase goal HgA1c to avoid hypoglycemia risk in patient w/ limited food or fridge access.

Medication management

Change type of insulin to reduce medication cost; change to higher dose medication with pill splitter.

Behavioral recommendations

Change physical activity recommendations because of neighborhood safety.

Referrals

Schedule same day appointments or telehealth visits to decrease impact of poor transportation access.

^{*}Table adapted from Senteio, et al. JAMIA 2019

Technology might facilitate Adjustment activities

COHERE Study: Can prompt/document interventions using A&P note

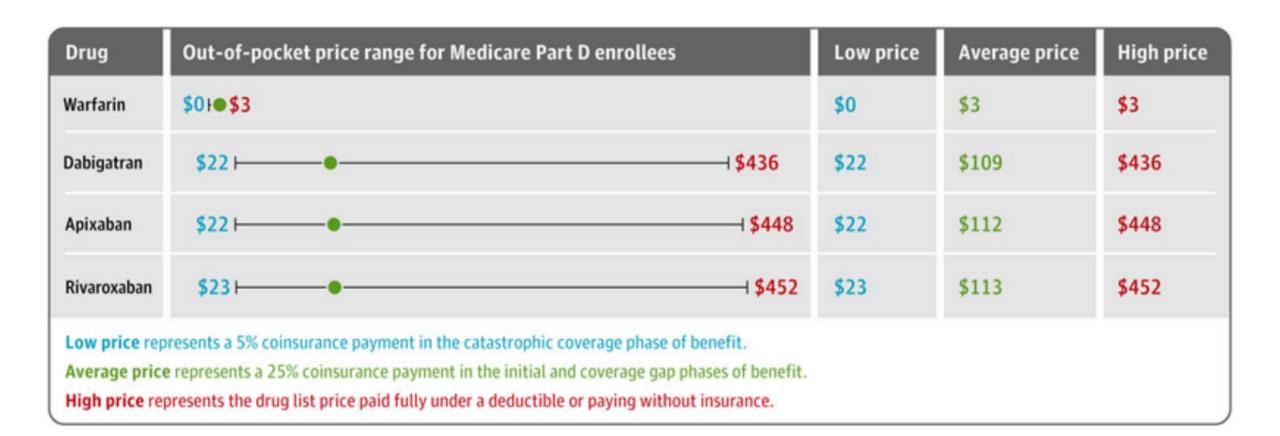
| | Housing: At Risk. Add as encounter diagnosis? ☐ Housing problems [Z59.9] ☑ Lack of housing [Z59.00] | | | | | | |
|--|---|---|----------------------------|-------------|--------------|-------------------|-------|
| (i) | _ | ☐ Sheltered homelessness [Z59.01] ☐ Unsheltered homelessness [Z59.02] | | | ✓ Accept (1) | * | |
| Unsatisfactory living conditions [Z59.1] | | | | _ | | | |
| | | | as lead paint [Z91.89] | | | | |
| | | ☐ Home has lead p | lumbing [Z91.89] | | | | |
| Based on patient's answers: What is your living situation today?: (!) I do not have a steady place to live (I am temporarily staying with others, in a hotel, in a shelter, living outside on the street, on a beach, in a car, abandoned building, bus or train station, or in a park) Patient has recent HbA1c >9%, BP >140/90, hx of no-shows, and social risks. Document actions to address in Assessment & Plan Note. | | | | | | | |
| | Add Visit Diagnosis | Do Not Add | Lack of housing [Z59.00] ① | ▲ Change Dx | Assessment | t & Plan Note O S | earch |
| ✓ Add to Problem List | | | | | | | |
| | ✓ Accept (1) | | | | | | |

Technology might facilitate Adjustment activities

| SmartList Text (shown to user and put in note) | AVS Text (shown to patient) | Logic: Option appears if |
|---|---|--|
| "Discussed titrating insulin based on food availability" | "You and your provider talked about how to adjust your insulin dose based on your food intake." | Food insecurity + active insulin rx |
| "Discussed medication costs; will change to [generics, combination meds, or alternative dosing] | "[New medication instructions]" | Insecurity in ANY financial-related domain + active rx for non-generic med |
| "Discussed GoodRx discount" | "The discount codes from GoodRx [link] may help to lower your medication costs. You can use them at most pharmacies." | ANY financial-related domain, or self-pay appointment, or taking any med differently due to cost |
| "Follow up via telemedicine because [can decrease missed work/ transportation costs]" | | Financial or transportation insecurity; has digital tools |

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Technology might facilitate Adjustment activities



Example of an Alternative Design for Monthly Out-of-pocket Cost Information for Medicare Part D Covered Medications

Research on RTPB platforms

Alternative, lower cost medications were available for 4-5% of all prescriptions.

Patients were 1.5x more likely to fill the lower cost prescriptions if provider accepted alert.

Average patient savings: \$28/month (about 11%).

But providers accepted alerts only 33% of the time.



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Assistance strategies

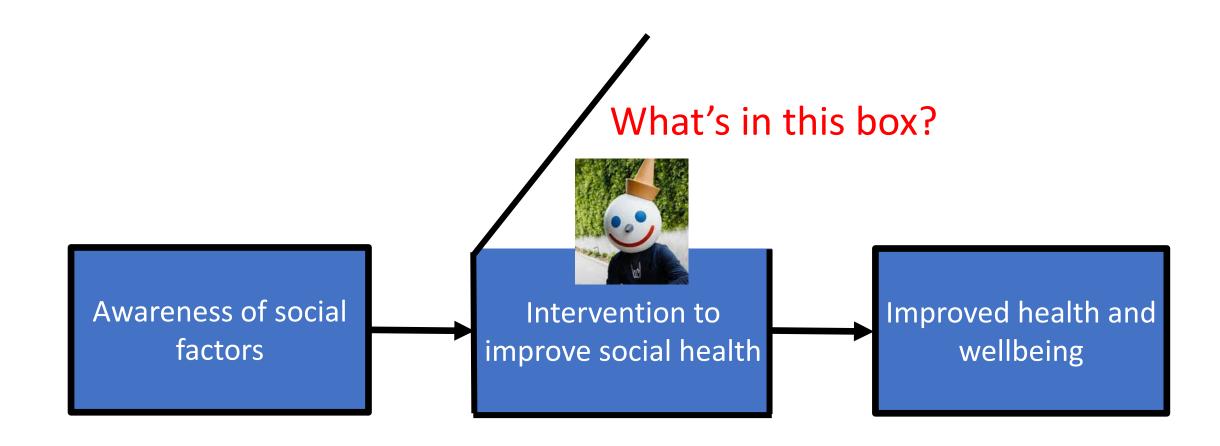
Change social context, e.g.:

- Food
- Housing
- Employment





Assistance strategies







Accountable Health Communities



- 5-year trial of social risk screening and navigation services in 29 different communities funded by CMS Innovation Center
- Social need AND 2+ ED visits/admissions in last year
- Two tracks
 - Assistance Track: Intervention and control arms RCT
 - Alignment Track: 1 arm (all eligible beneficiaries receive intervention) from orgs engaged in continuous quality improvement with community organizations

AHC Evaluation: RCT Results

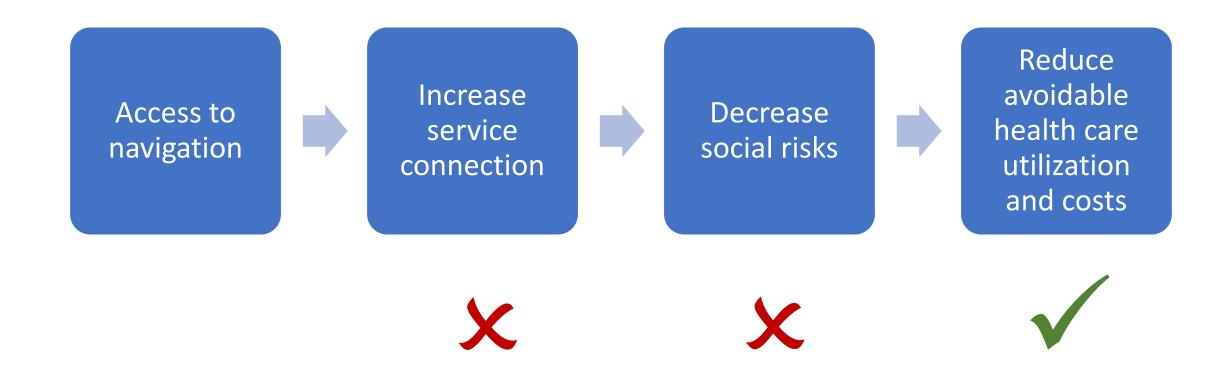
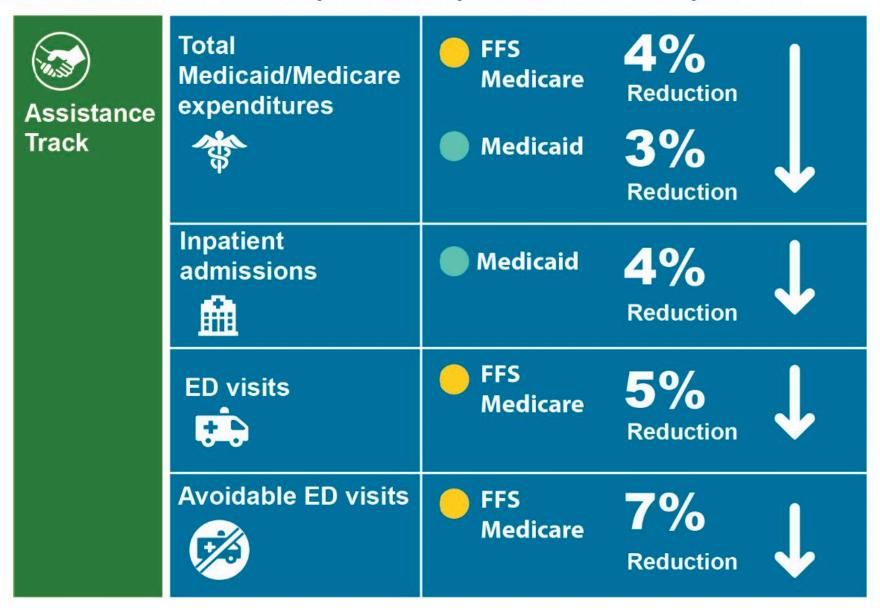




Exhibit ES-2. Assistance Track Impacts on Expenditures and Hospital Use

AHC Evaluation: RCT Results



NC Health Opportunities Pilot Findings

Original Investigation



Medicaid Spending and Health-Related Social Needs in the North Carolina Healthy Opportunities Pilots Program

Seth A. Berkowitz, MD, MPH^{1,2}; Jessica Archibald, MSA¹; Zhitong Yu, MPH¹; Myklynn LaPoint, BA¹; Salma Ali, MPH¹; Maihan B. Vu, DrPH, MPH^{3,4}; Gaurav Dave, MBBS, DrPH, MPH^{2,5}; Kori B. Flower, MD, MS, MPH⁶; Marisa Elena Domino, PhD⁷



NC HOP Findings

"...the time of HOP enrollment was one of initially greater spending... subsequently there was a significantly decreasing trend in spending relative to what would have been expected."

Camden Coalition



CURRENT ISSUE ✓ SPECIALTIES ✓ TOPICS ✓

SPECIAL ARTICLE



Health Care Hotspotting — A Randomized, Controlled Trial

Authors: Amy Finkelstein, Ph.D., Annetta Zhou, Ph.D., Sarah Taubman, Sc.D., and Joseph Doyle, Ph.D. Author Info & Affiliations

Published January 8, 2020 | N Engl J Med 2020;382:152-162 | DOI: 10.1056/NEJMsa1906848 | VOL. 382 NO. 2

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- Younger, sick, medically and socially complex population
- Outcomes almost exclusively focused on readmissions
- Limited community services vs. contamination

Assistance Interventions and Racial Health Equity

January 19, 2023

Racial Health Equity and Social Needs Interventions

A Review of a Scoping Review

Crystal W. Cené, MD, MPH^{1,2}; Meera Viswanathan, PhD³; Caroline M. Fichtenberg, PhD^{4,5}; et al

JAMA Netw Open. 2023;6(1):e2250654.

Of 152 studies only 14% reported whether intervention outcomes differed by participant race or ethnicity. Another 23 studies (15%) included race or ethnicity in their analyses as confounders.

108 [71%] did not include race or ethnicity in their analyses at all.



AHC Findings in Subgroups Analyses







19%

Hispanic Beneficiaries

Increase



4%

Increase

Hispanic Beneficiaries

11% **Increase**

Non-White and/or **Hispanic FFS** Medicare **Beneficiaries Had Greater Reductions in** **Expenditures**









Technology might facilitate assistance strategies





Nawpew



- Resource and referral data
- Data exchange
- Community-based network
- **Predictive** analytics















Or it might not....

Community Resource Referral Platforms: A Guide for Health Care

Organizations

Yuri Cartier, MPH Caroline Fichtenberg, PhD Laura Gottlieb, MD, MPH

April 16, 2019

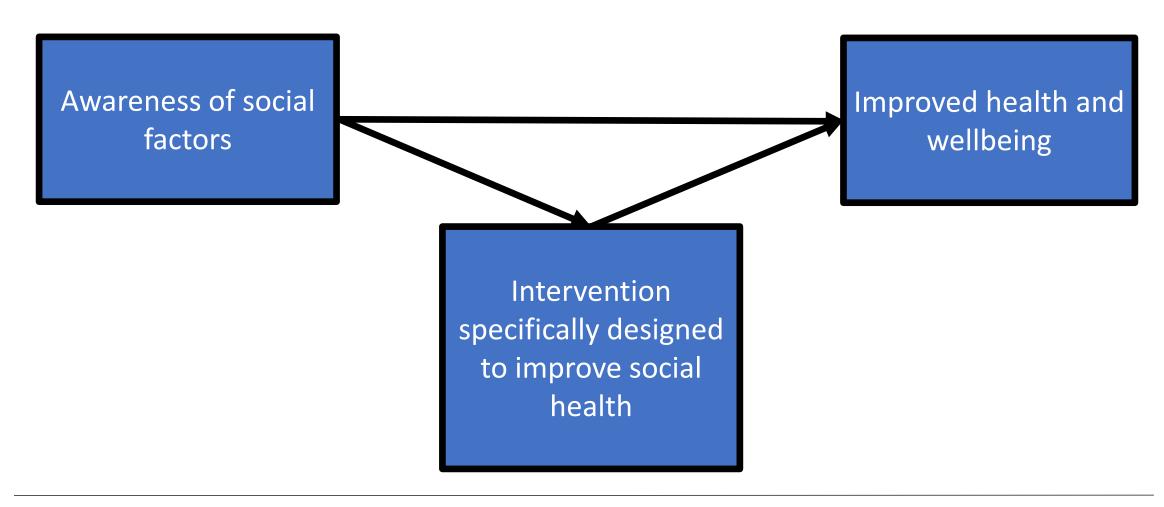


← Back to Evidence & Resource Library

CBO perspectives on community resource referral platforms: Findings from year 1 of highlighting and assessing referral platform participation (HARP)

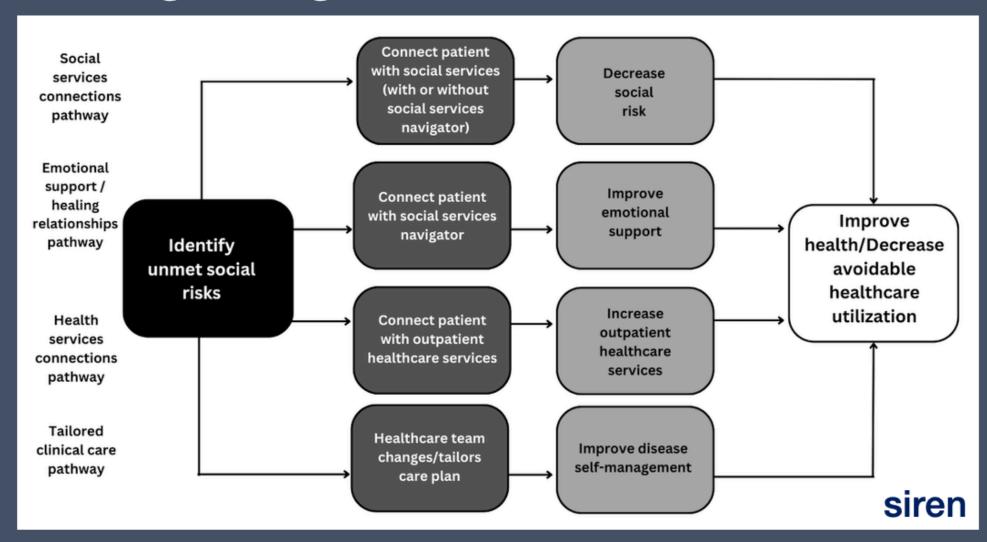
Y. Cartier, J. Burnett, C. Fichtenberg, E. Morganstern, N. Terens, S. Altschuler, G. Paulson *Trenton Health Team*

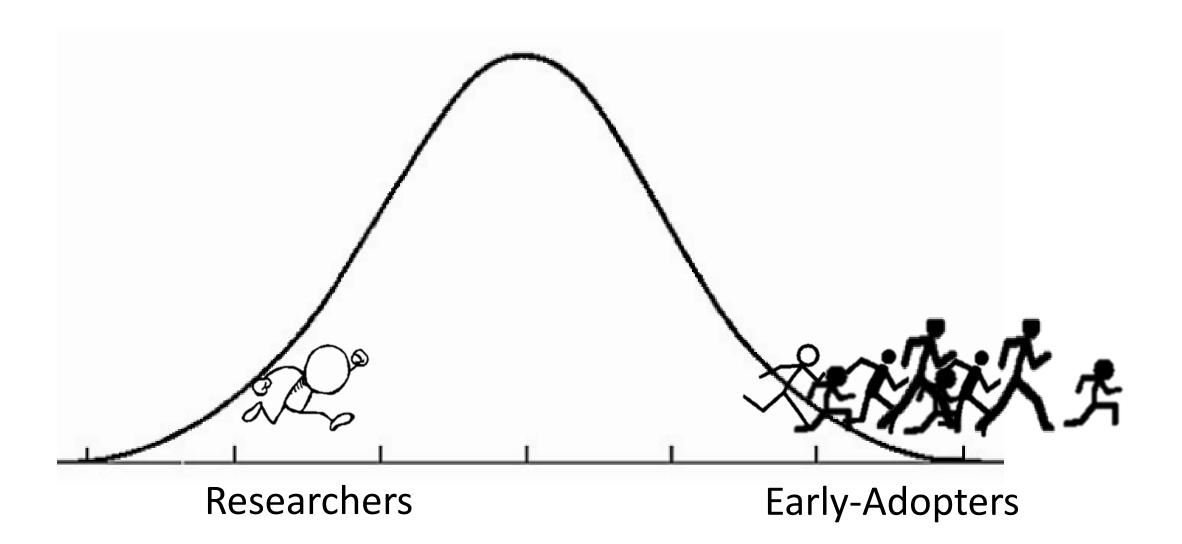
Pathways to health



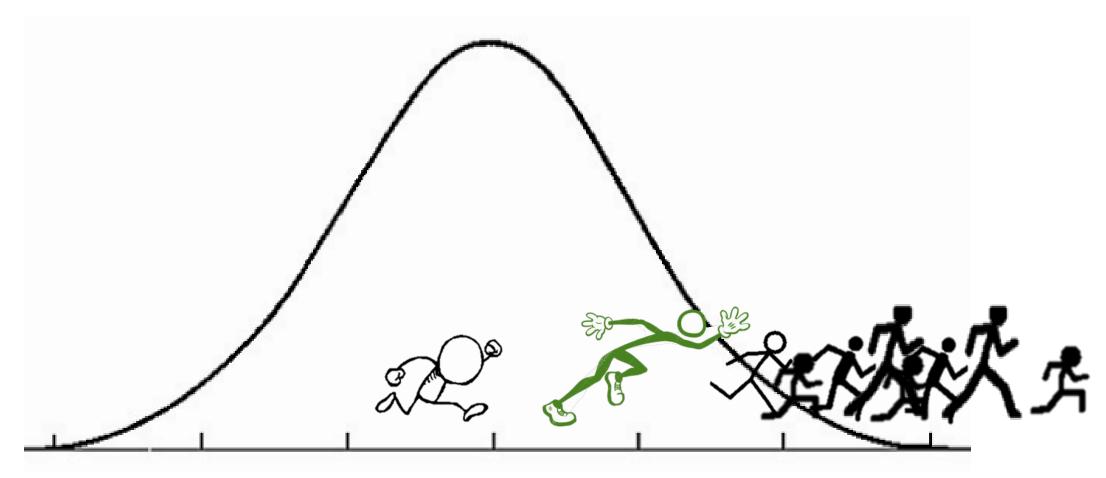


Revising the Logic Model: Milbank Q 2024









Policymakers



Social Care Policymaking





Social Care Policymaking





Places to find more evidence on clinic-based social care



NASEM 5As Framework

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Alignment and Advocacy

Leverage business operations

Employment

Procurement

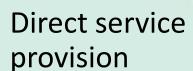
Investment



Provide or support local social services and community activities

DELIVER

Grants



Non-financial support

Collaborate to support systems change

Multi-sector coalitions

Advocacy





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Social care practices, ethics, and equity

| Social care practice example | Related medical ethics questions |
|---|--|
| Screening for food security at every clinic visit (Awareness) | Could screening exacerbate perceived or actual discrimination? |
| Linking patients to community-based organizations (Assistance) | How do we avoid the "Bridge to Nowhere" problem? Could healthcare involvement here decrease societal investments in social services? |
| Changing medications based on affordability (Adjustment) | Could social risk-informed care be rationalizing poor care for low-income populations? |
| Health care's community-level activities (Alignment and Advocacy) | Where can healthcare's investments maximize positive outcomes? |

Social Interventions Research & Evaluation Network

SIREN's mission is to improve health and health equity by catalyzing and disseminating high quality research that advances health care sector strategies to improve social conditions.



Catalyzing high quality research



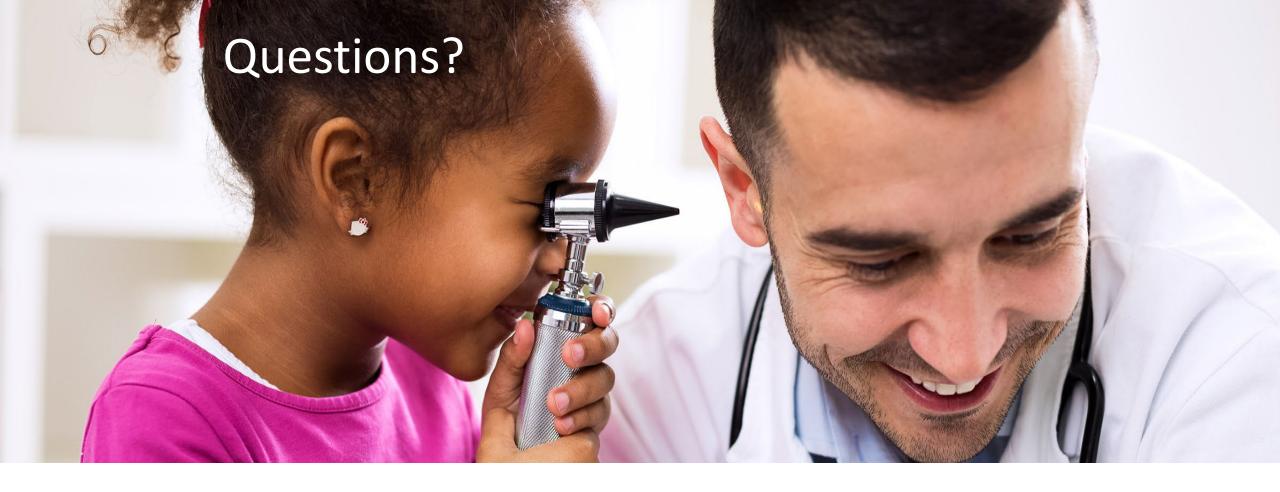
Collecting & disseminating research



Consulting on research & analytics

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