



Making it Work: Practical Solutions to Health Equity for Hospitals (1)

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Widening the Health Equity Lens with Supplemental Data

Temi Olafunmiloye Manager, Health Equity Health Quality Innovators (HQI)





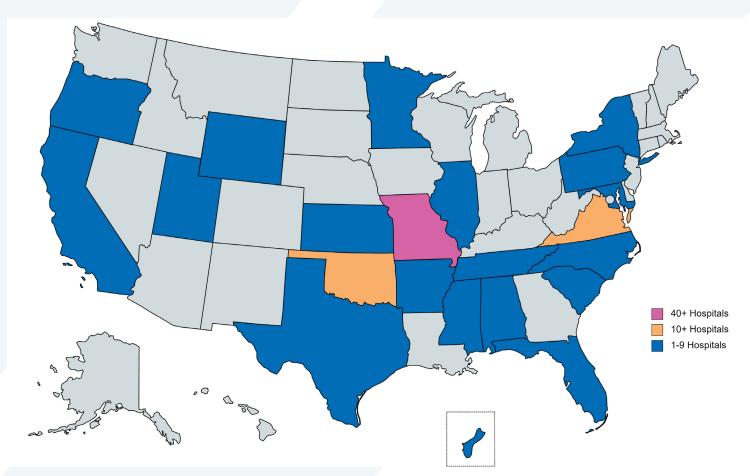


- HQI and HQIC Overview
- Health Equity Focus and Analysis
- Supplemental Data: HQI's Quarterly Disparities Reports
- Hospitals in Action



About HQI

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Hospital Distribution

- 23 States
- 59 CAHs
- 60 Acute Care
- 71 Rural



HQIC Priority Areas





Health Equity Focus (1 of 2)



Reducing Health Disparities Assess and implement a way to systematically collect Race, Ethnicity, Age, and Language (REAL) data at the point of care

 Use the patient voice to highlight strategies to reduce health disparities





Health Equity Focus (2 of 2)



Reducing Health Disparities

- Launched Health Equity Organizational Assessment
 - Data Collection
 - Data Collection Training
 - Data Validation
 - Data Stratification
 - Communicate Findings
 - Address and Resolve Gaps in Care
- Produced Quarterly Disparities Reports





Health Equity Organizational Analysis

Unknown Not Performing Activities in this area	■ Basic/Fund	amental	■ Mid-Level/Inte	rmediate	Advanced		
HEOA1: Data Collection	21.8%		52.1%		16.89	% 9	.2%
HEOA2: Data Collection Training	25.2%	5.9%	5	0.4%	1	0.1% 8	8.4%
HEOA3: Data Validation	24.4%		34.5%	21.8%	6	13.4%	5.9%
HEOA4: Data Stratification	25.2%		42.9%		21.8%	6.7	7% 3.4
HEOA5: Communicate Findings	26.1%		40.3%		26.1%	4.2	2% 3.4
HEOA6: Address & Resolve Gaps in Care	25.2%	14.39	%	48.7%		6.7%	5.99
IEOA7: Organizational Infrastructure and Culture	27.7%		22.7%	33.6%		11.8%	4.2

Percentage of Hospitals Reporting HEOA Performance by Category



Addressing Disparities Challenges

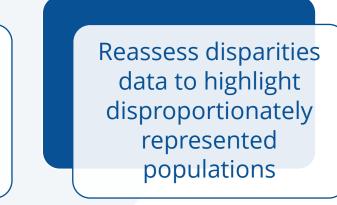
HQIC hospitals lacked motivation to address equity due to being in nondiverse areas

Small hospitals with low harm rates saw few disparities





Addressing Disparities Solutions



Broaden understanding of health equity

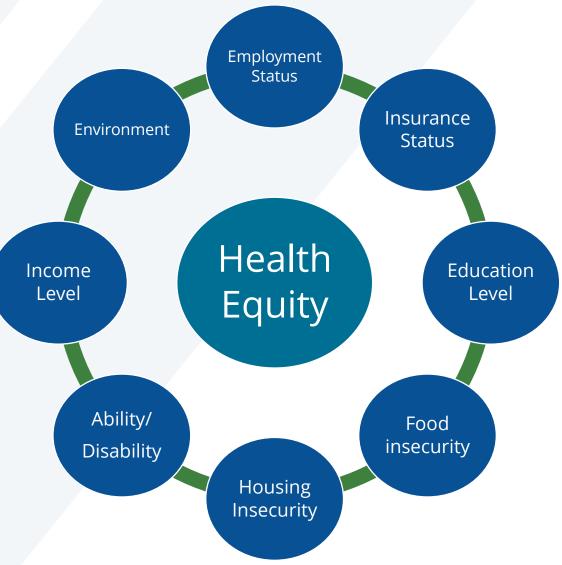






Reconceptualizing Health Equity

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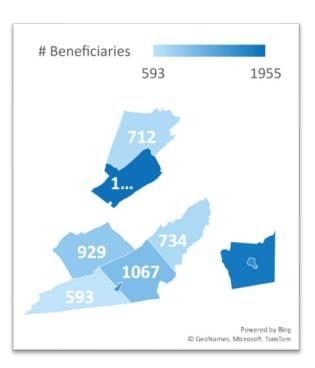




Hospital Catchment Area

Timeframe:	Oct-21 -	Sep-22							
	Vour He	2020 Medicare Geographic Variation							
	Tour Ho	spital	Gen	der		Race/Et	thnicity		
County, State	# Bene- ficiaries	% Bene- ficiaries	Male	Female	White	Black	Hispanic	Other	
GILES, VA	1955	13.4%	45.4%	54.6%	-	-	-	-	
HENRY, VA	1852	12.7%	44.3%	55.7%	82.9%	15.3%	0.5%	1.3%	
MARTINSVILLE CITY, VA	1626	11.2%	42.7%	57.3%	63.7%	33.3%	1.0%	2.0%	
FRANKLIN, VA	1509	10.4%	47.4%	52.6%	92.2%	4.8%	0.5%	2.5%	
GALAX CITY, VA	1498	10.3%	42.8%	57.2%	92.7%	4.6%	1.3%	1.5%	
CARROLL, VA	1067	7.3%	46.6%	53.4%	97.9%	0.3%	0.2%	1.5%	
WYTHE, VA	929	6.4%	45.5%	<mark>54.5%</mark>	95.8%	2.1%	0.3%	1.9%	
FLOYD, VA	734	5.0%	46.4%	<mark>53.6%</mark>	95.0%	1.8%	0.4%	2.9%	
MONROE, WV	712	4.9%	48.7%	51.3%	-	-	-	-	
GRAYSON, VA	593	4.1%	47.2%	<mark>52.8%</mark>	-	-	-	-	

	Gender		Race/Ethnicity				
	Male	Female	White	Black	Hispanic	Other	
Estimated Distribution for Your Hospital's Catchment Area*	45.3%	54.7%	86.6%	10.9%	0.7%	1.9%	





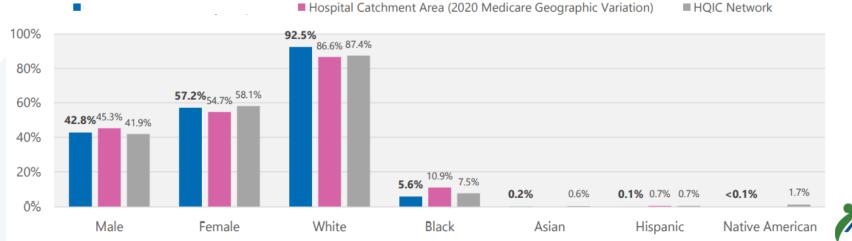


Beneficiary Demographics

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		Ge	Gender		Race/Ethnicity						
Demographic Category	All	Male	Female	White	Black	Asian	Hispanic	Native American			
# of Beneficiaries served as inpatient or outpatient	14,518	6,215	<mark>8</mark> ,303	13,422	809	26	12	<10			
% of Beneficiaries served	-	42.8%	57.2%	92.5%	5.6%	0.2%	0.1%	<0.1%			
% of Beneficiaries in Hospital Catchment Area	-	45.3%	54.7%	86.6%	10.9%) .	0.7%	-			
HQIC Network		41.9%	58.1%	87.4%	7.5%	0.6%	0.7%	1.7%			

Beneficiary Demographics (Timeframe: Sep-22)





Patient Distribution Across Each Harm Area

		Ger	Gender		Race/Ethnicity					
Demographic Category	All	Male	Female	White	Black	Asian	Hispanic	Native American		
# of Beneficiaries served as inpatient or outpatient	11,827	4,869	<mark>6</mark> ,958	<mark>9,548</mark>	1,976	25	17	<10		
% of Beneficiaries served	-	41.2%	58.8%	80.7%	16.7%	0.2%	0.1%	<0.1%		
% of Beneficiaries in Hospital Catchment Area	-	46.4%	53.6%	82.4%	14.2%	-	0.8%	-		
HQIC Network		41.9%	58.1%	87.4%	7.5%	0.6%	0.7%	1.7%		

		Ģ	iender	r	-	R	ace/Ethnici	ty	
HQIC Measure	All Harms (n)	Male	Fen	nale	White	Black	Asian	Hispanic	Native American
30-Day Readmissions	247	51	%	49%	74%	25%	0%	0%	0%
30-Day Sepsis Mortality	91	53	%	47%	66X	32%	0%	0%	0%
Pressure Ulcers	<10								
Perioperative PE/DVT	<10								
Postoperative Sepsis	0								
Fall-related Injuries	<10								
Anticoagulant ADEs	<10								
Hypoglycemic ADEs	0								
Opioid ADEs	<10								

Black patients comprised 16.7% of beneficiaries served, yet are 25% of readmissions and 32% of 30-day sepsis mortality



Social Vulnerability Index (SVI)

Social Vulnerability: External factors that can negatively impact a community's health

Socioeconomic Status	Household Composition & Disability	Minority Status & Language	Housing & Transportation
 Below poverty Unemployed Income No high school diploma 	 Aged 65 or older Aged 17 or younger Civilian with a disability Single-parent household 	 Minority Speak English "less than well" 	 Multi-unit structures Mobile homes Crowding No vehicle Group quarters

Overall Vulnerability

Scoring

Very Low	Low	Moderate	High	Very High
(0.0-0.19)	(0.20-0.39)	(0.40-0.59)	(0.60-0.79)	(0.80-1.0)

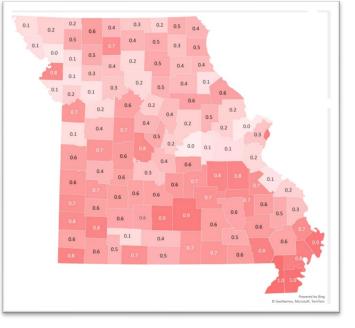




Using SVI Data

	Your Ho	Your Hospital		So all	dices (SVI)		
County, State	# Bene- ficiaries	% Bene- ficiaries	Socio- economic	Household Composition & Disability	Minority Status & Language	Housing Type & Trans- portation	Overall Ranking
BARTON, MO	1067	66.6%	0.9036	0.8052	0.2508	0.3431	0.7279
VERNON, MO	188	11.7%	0.6496	0.7699	0.1655	0.6127	0.6400
JASPER, MO	118	7.4%	0.7540	0.7788	0.4854	0.6340	0.7514
DADE, MO	88	5.5%	0.8342	0.2072	0.1779	0.5621	0.5713
CEDAR, MO	34	2.1%	0.7613	0.6416	0.1181	0.6391	0.6553
CRAWFORD, KS	15	0.9%	0.7237	0.5124	0.4300	0.9290	0.7683

	Social Vulnerability Indices (SVI)				
	Socio- economic	Household Composition & Disability	Minority Status & Language	Housing Type & Trans- portation	Overall Ranking
Estimated SVI for Your Hospital's Catchment Area	0.8512	0.7573	0.2531	0.4246	0.7084

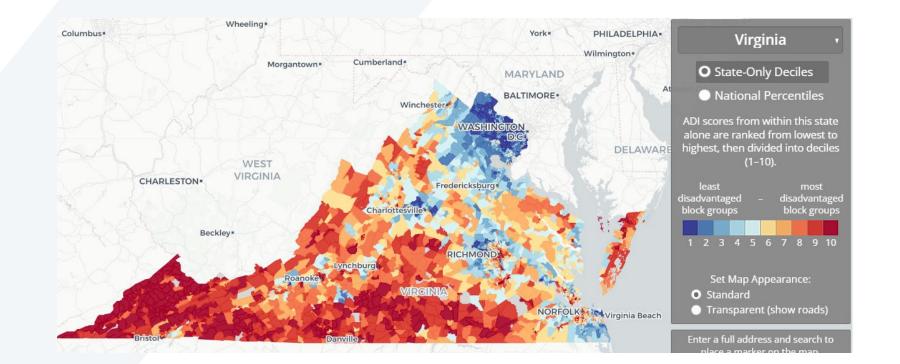






Area Deprivation Index (ADI)

- Measures neighborhood disadvantage by ranking regions by socioeconomic disadvantage
- Incorporates factors such as income, education, employment, and housing quality



Source: Neighborhood Atlas®

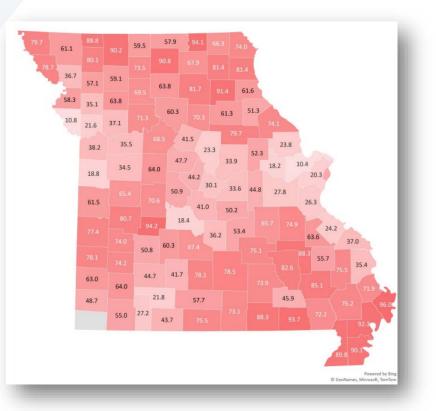




Using ADI Data

	Your Ho	ospital	
County, State	# Bene- ficiaries	% Bene- ficiaries	Area Deprivation Index (ADI)
BARTON, MO	1067	66.6%	78.1
VERNON, MO	188	11.7%	77.4
JASPER, MO	118	7.4%	63.0
DADE, MO	88	5.5%	74.2
CEDAR, MO	34	2.1%	74.0
CRAWFORD, KS	15	0.9%	81.3

	Area Deprivation Index (ADI)		
Estimated ADI for Your Hospital's	76.5		
Catchment Area	76.5		







Making Data Actionable

HQIN Resource Center

The Social Vulnerability Index Toolkit

Overview

What is the Social Vulnerability Index?

Social vulnerability refers to several external factors that can negatively impact a community's health, such as poor housing conditions, lack of access to transportation and disability. Certain populations need additional support before, during and after a public health event, such as natural disasters and infectious disease outbreaks. The Social Vulnerability Index (SVI) measures the extent to which a community is vulnerable to hazardous events. The index provides a way to plan for challenges related to a community's vulnerabilities and give community members the resources they need.

What is the Data Source for the SVI?

The SVI is based on the American Community Survey (ACS), administered by the U.S. Census Bureau. The ACS obtains information on the changes taking place in various communities' populations, collecting information on social factors (e.g., ancestry, citizenship status), housing (e.g., occupants per room, owner or renter) and economic factors (e.g., dass of worker, poverty status and demographics (e.g., race, age). The SVI is updated every two years, based on when the U.S. Census Bureau releases data.

How are SVI Scores Developed?

The SVI considers 15 measures from the ACS and groups them into four distinct themes, as outlined below:

Socioeconomic Status	Household Composition & Disability	Minority Status & Language	Housing & Transportation
 Below poverty Unemployed Income No high school diploma 	 Aged 65 or older Aged 17 or younger Civilian with a disability Single-parent household 	 Minority Speak English "less than well" 	 Multi-unit structures Mobile homes Crowding No vehicle Group quarter

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The SVI combines and ranks these 15 measures at the census tract level. Census tracts are small, relatively permanent subdivisions of a county or geographic area, typically encompassing a population of about 4,000 people (but can range from 1,200 – 8,000 people). Using



Health Equity Learning Module Series Using Z Codes to Capture SDOH - Part 4



Part 4 - Using Z codes to Capture Social Determinants of Health





Hospitals In Action Example: Rural Critical Access Hospital

Hospital Profile

Location	Western South Carolina		
Hospital Type	Rural Critical Access Hospital		
Number of Beds	25		
Has an Emergency Department (ED)?	Yes		
Has an Intensive Care Unit (ICU)?	Yes		





Hospitals In Action Z Codes

Implemented Z codes in physician practices Utilized 10-question questionnaire to screen for social determinants Determined transportation, mental health, and food insecurity as needs

	Social Vulnerability Indices (SVI)				
	Socio- economic	Household Composition & Disability	Minority Status & Language	Housing Type & Trans- portation	Overall Ranking
Estimated SVI for Your Hospital's Catchment Area	0.7686	0.6425	0.7202	0.8198	0.8033





Hospitals In Action Results

- Awarded \$100,00 grant to expand transportation services to the rural community
- Awarded grant to provide free mental health services
- Launched monthly drive-through food box distribution







Hospitals In Action Example: Urban Targeted, Acute Care

Hospital Profile

Location	Southeast Missouri		
Hospital Type	Urban Targeted, Acute Care		
Number of Beds	188		
Has an Emergency Department (ED)?	Yes		
Has an Intensive Care Unit (ICU)?	Yes		





Hospitals In Action Needs Assessment

 Identified food insecurity as a health-related social need through their Community Health Needs Assessment

	Social Vulnerability Indices (SVI)				
	Socio- economic	Household Composition & Disability	Minority Status & Language	Housing Type & Trans- portation	Overall Ranking
Estimated SVI for Your Hospital's Catchment Area	0.7940	0.8157	0.5065	0.6183	0.7815





Hospitals In Action Food Bank Initiative

Screened patients using a 4-question screening tool

Patients with food insecurity are referred to the pantry at discharge Patients receive follow-up calls to connect them to social services (e.g. SNAP)

Goal: Reduce the # of patients identified for food insecurity by 10% within the next 3 years

Measures:

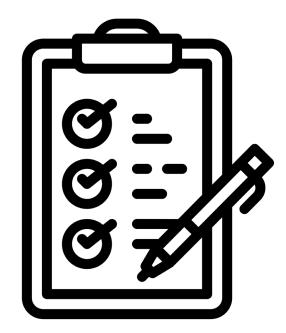
- # of patients with food insecurity
- # of patients that accept the referral to the food bank
- Tracking food that has been distributed to acute inpatients upon discharge





Takeaways

- Broadening our understanding of health equity makes it more accessible and achievable
- Supplemental data provides context and depth to disparities
- Start small and scale upwards







Contact Information (1)

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Making it Work: Practical Solutions to Health Equity for Hospitals (2)

Bruce Spurlock, MD











- Background and challenges
- Hospital readiness
- Your why
- Actions and resources

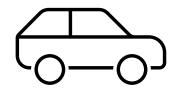












CMS Final Rule: Screening for 5 Social Drivers of Health / Health Related Social Needs (HRSN)

Food Insecurity Housing Instability Transportation Needs Utility Difficulties Interpersonal Safety

Source: 2022-16472.pdf (federalregister.gov), page 1220

What We've Learned

This is new and complex	Engage community members, patients, and families in every step	Start small
Identify and align with other resources	Screening won't solve all challenges, but it will shine a light on needs	Patients want to know why you're asking

Continually Evaluate and Streamline Screening Systems, Accuracy, and Completeness

Hospitals face common challenges

- Staff availability and systems to collect, analyze, and use data
 - The right people local context is important
 - The right training scripting and sensitivity with patients
 - The right tools EHR, tablet, paper tool, post-discharge call or all of the above
- Availability of community resources and capacity to support patients who are referred
 - Tracking databases are emerging
- Data collection & documentation... determining a disparity is complex

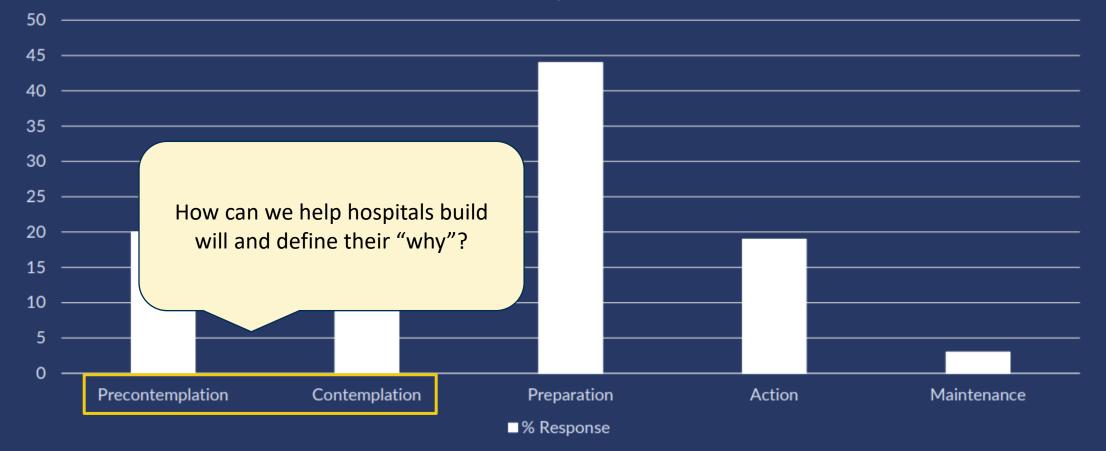
Source: 10/27/2022 Cynosure Health webinar chat question: What is the greatest challenge you face in setting up SDOH screening?





Most hospitals are in the planning phases

% Response



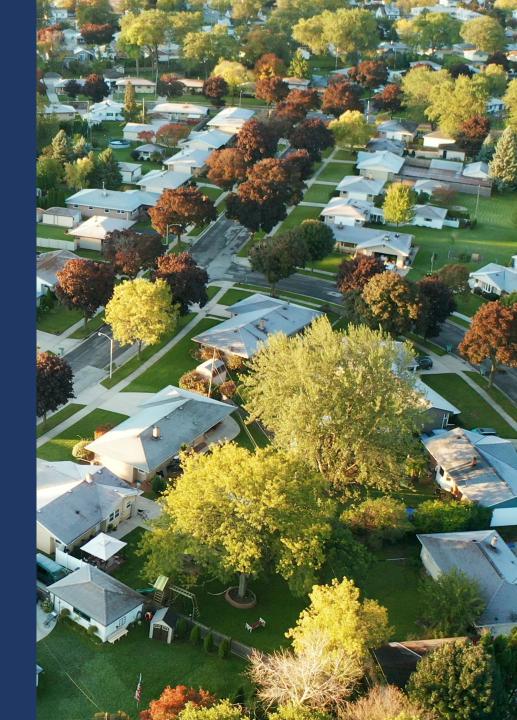
Source: 10/27/2022 Poll Question: Where are you on your journey to implement SDOH screening?

What's Your "Why"?

R-253

SDOH Screening Aligns with Multiple Requirements & Priorities

- Community benefit
- Community health needs assessment
- Advancing health equity
- Improving quality (such as readmissions)
- Patient-centered care
- Something else?



Getting Started

Actions

- Set a vision what does success look like?
- Convene stakeholders nursing, quality, case managers/social workers, IT, population health, education/marketing, patient family partners
- Identify existing resources

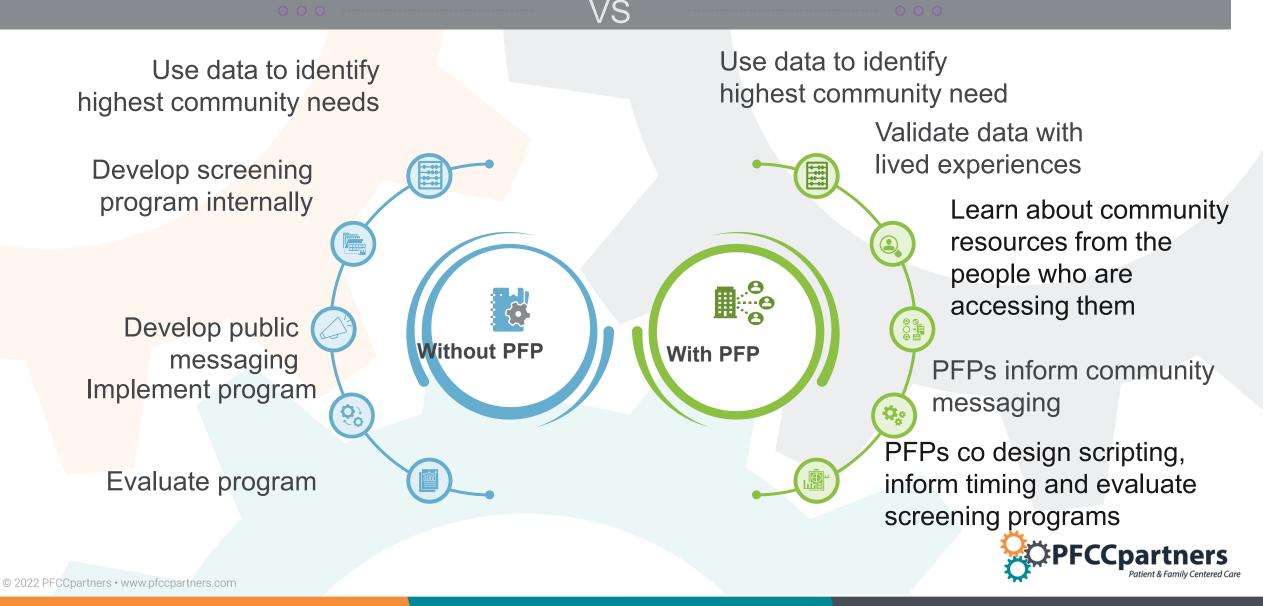
Resources

- Existing screening tools- <u>SIREN</u>
- Your Electronic Medical Record (EMR) capabilities
- Existing partnerships and organizations with whom you have not yet partnered
- Perspectives and ideas from patient family partners who have experienced SDOH screening





Engaging Patient and Family Partners (PFPs) in SDOH Screening Programs



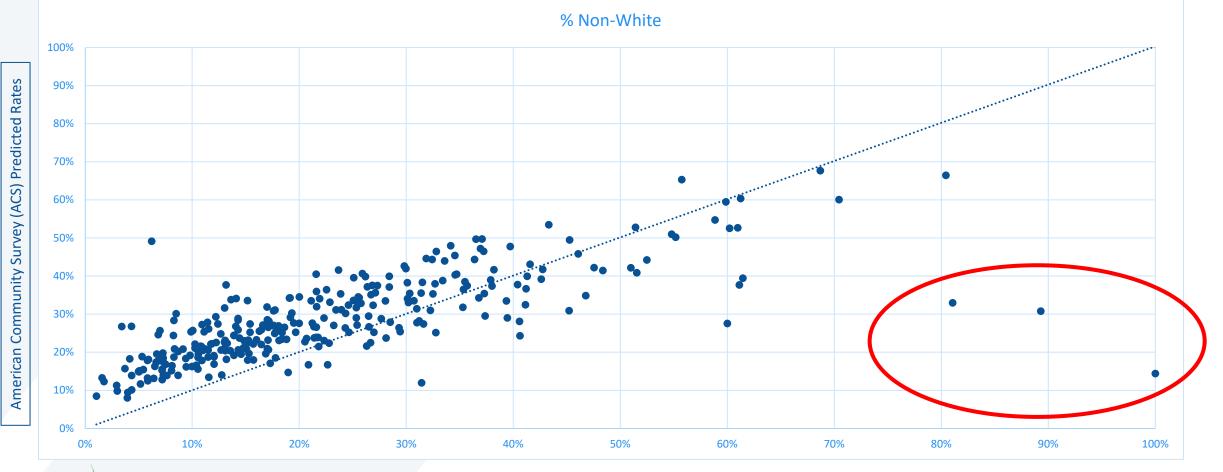
Considerations

- Do your staff and providers have a common understanding of why you're screening patients and how you will use the information?
- How will you explain to patients why you are asking questions about SDOH?
- Do the staff who are completing the screenings have the time, training, and resources to do so effectively?
- If a patient screens positive, what will your response be?
- How will you analyze data over time to identify patterns and to proactively address high priority needs in your community?
- How do you know your screening results are accurate?





Data Accuracy: Hospital Service Area vs ACS



Hospital Reported Rates





What is the role of the hospital?



Anchor Anchor institution in the community

Convene Convene community partners

Begin

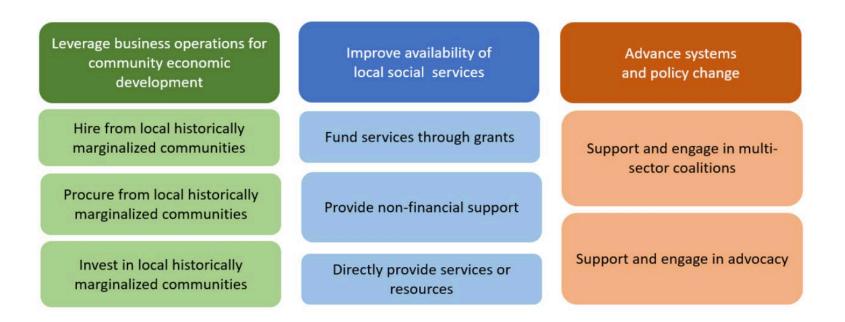
Begin at home – hospital staff that have health related social needs





What's Your Role?

Exhibit 1: Typology of community-level actions for hospitals to address social determinants of health



Source: "Community-Level Actions On The Social Determinants Of Health: A Typology For Hospitals", Health Affairs Forefront, October 11, 2022.DOI: 10.1377/forefront.20221006.388060



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THANK YOU

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