

Part 2: The Next Step

Take your SDOH Data and do Something With it

Presented By:

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THE RISE
ASSOCIATION

We are a network of health care professionals addressing the challenges posed by the emerging landscape of value-based care and government health care reform.

OUR MISSION

Our mission is to provide a community for like-minded professionals to come together for networking, education, and industry collaboration to stay ahead and advance their careers.

ONE ASSOCIATION
THREE COMMUNITIES



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ASK YOUR QUESTIONS IN OUR DISCUSSION BOARD

Hosts



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Examples of SDOH Domains

- Social Determinants of Health Basic Concepts
- Community Level Risk
- Individual Level Risk
- Tangible Results
- Member Use Cases
- Q & A

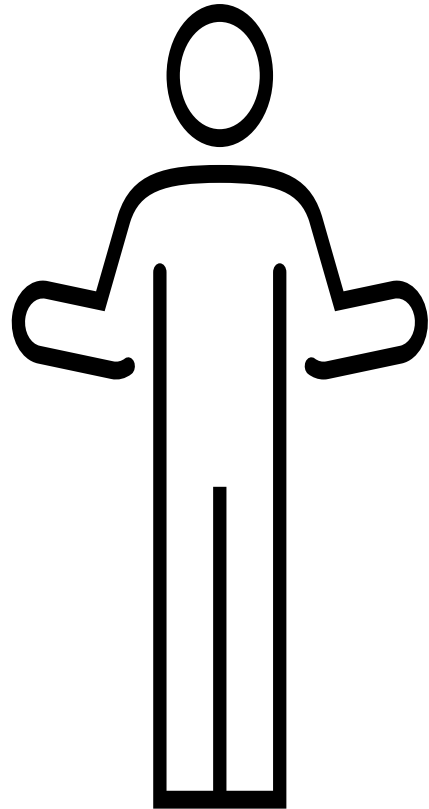
Social Determinants of Health Basic Concepts

Social Determinants of Health (SDOH)

Conditions in which people are born, grow, work, live, and age, and the wider set of forces and systems shaping the conditions of daily life. – *World Health Organization*

Source: https://www.who.int/health-topics/social-determinants-of-health#tab=tab_1

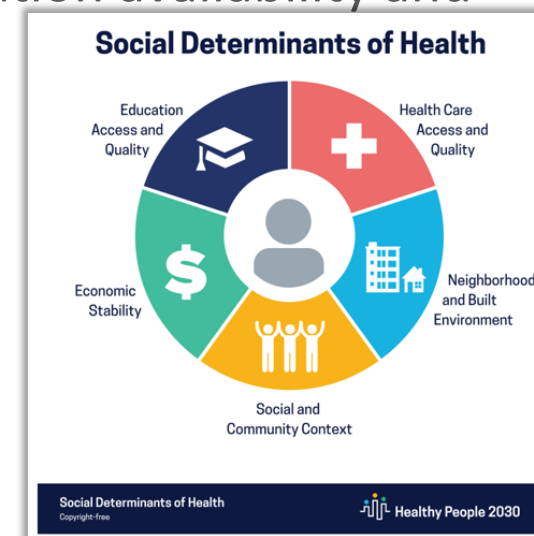
What Determines your Health



Source: National Academy of Medicine: <https://nam.edu/social-determinants-of-health-101-for-health-care-five-plus-five/>




Examples of SDOH Domains

- Housing
 - Housing instability
 - Affordability
 - Vacant Unit Availability
 - Homelessness
 - Inadequate Housing
 - Utilities
 - Mold Growth
 - Indoor air quality
 - Crowding
- Food
 - Food insecurity
 - Access to quality food, i.e food deserts
- Education
 - Educational Attainment
 - Health literacy
- Transportation
 - Reliable Vehicle access
 - Public Transportation availability and access
 - Walkability
- Financial health
 - Poverty
 - Debt
 - Savings



Source: Accountable Health Communities Health-Related Social Needs Screening Tool (<https://innovation.cms.gov/files/worksheets/ahcm-screeningtool.pdf>)
Healthy People 2030, U.S. Department of Health and Human Services, Office of Disease Prevention and Health Promotion. Retrieved 11.18.2021,
from <https://health.gov/healthypeople/objectives-and-data/social-determinants->

Framework & Key Constructs

	Construct	Definition	Operational Level	Considerations
Broad Focused	 Social Determinants of Health	Conditions in which people are born, grow, live, work, and age	Community	Socio-Cultural & Structural Factors
	 Social Risk Factors	Specific adverse conditions associated with poor health	Individual	Community Context & Personal Circumstance
	 Social Needs	Immediate individual needs	Temporal	Self-Identified & Time-Specific

Source: Socially Determined

Risk and Protective Factors

- Risk factors are attributes in individuals, families and communities that increase the likelihood adverse effects on health and well-being.
- Protective factors are attributes in individuals, families and communities that promote health and well-being.

<i>Operational level</i>	<i>Risk Factors</i>	<i>Protective Factors</i>
Community	<ul style="list-style-type: none">• <i>High poverty rates</i>• <i>High rates of low educational attainment</i>• <i>Low-levels of vehicle access</i>	<ul style="list-style-type: none">• <i>High employment rates</i>• <i>High rates of high educational attainment</i>• <i>Available and accessible Public Transportation</i>
Individual	<ul style="list-style-type: none">• <i>Less than a high school diploma</i>• <i>Housing instability, housed, homelessness in past 12 months</i>	<ul style="list-style-type: none">• <i>Stable employment</i>• <i>Transportation access</i>

Source: Child Welfare Information Gateway (childwelfare.gov) & Gravity Project (<https://confluence.hl7.org/display/PC/The+Gravity+Project+Home>)

Poll

Community Level Risk

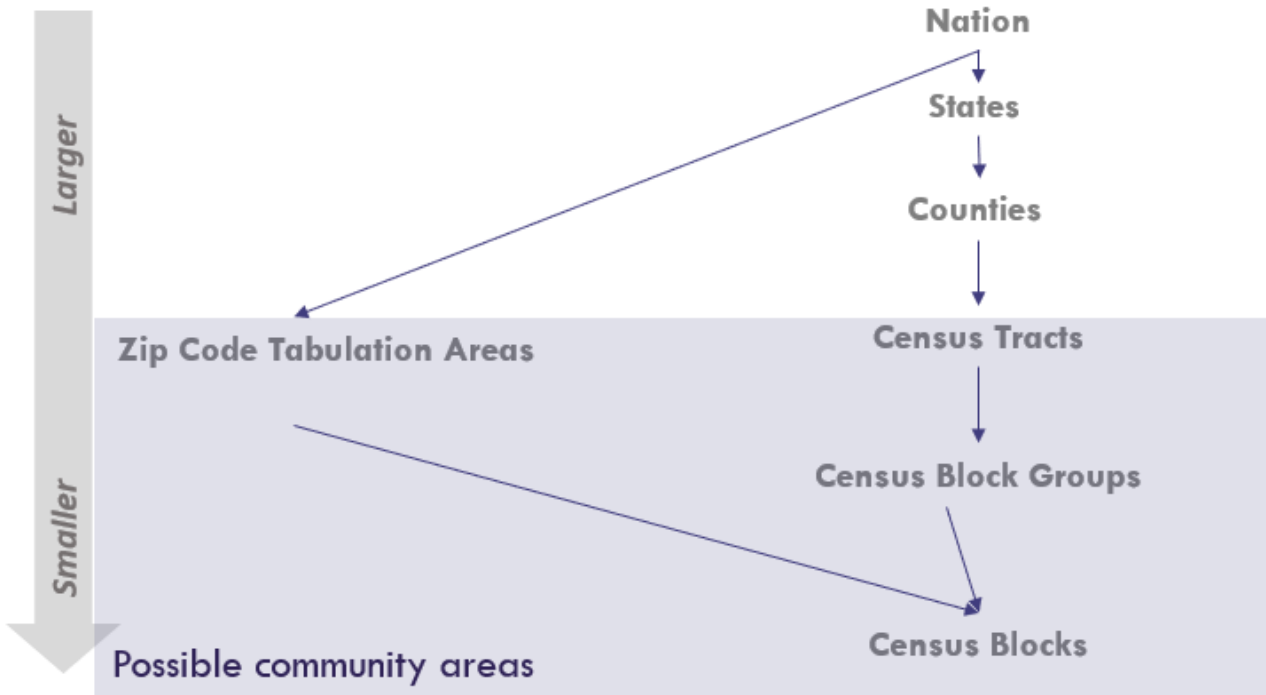
Why Focus on Community Risk

- Prioritize communities that are in most need of social determinants needing to be addressed
- Narrow focus to a certain set of social determinants
- Identify potential partnerships between community providers and community-based organizations
- Take an iterative approach to testing solutions

Source: Healthpayer intelligence (<https://healthpayerintelligence.com/news/how-payers-scale-social-determinants-of-health-goals>)

Measuring community

Census Geographies

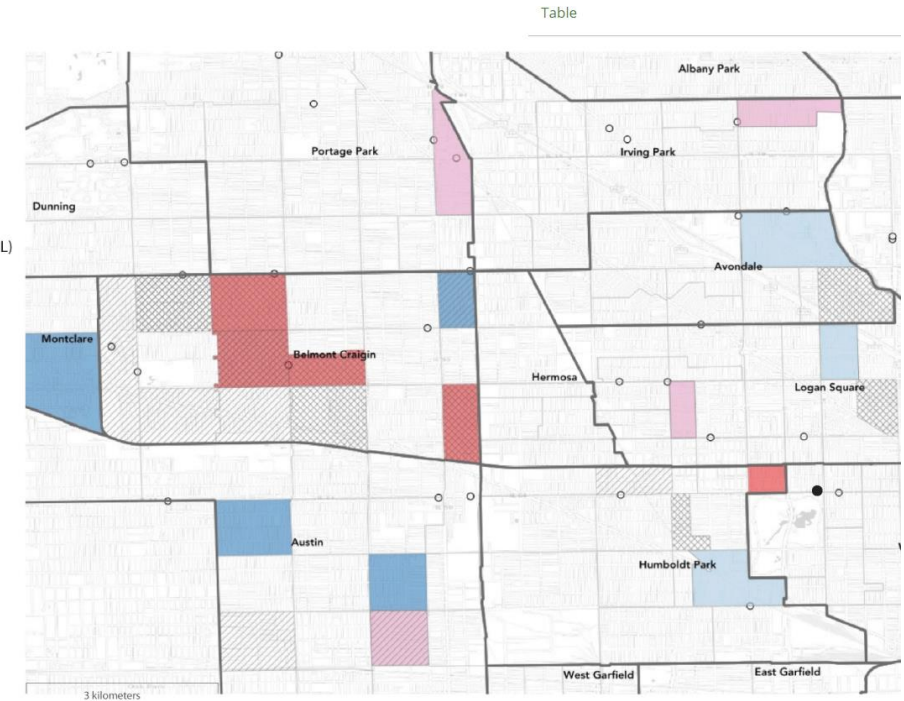


Source: U.S. Bureau of the Census (<https://www2.census.gov/geo/pdfs/reference/geodiagram.pdf>)

- ICD-10 Diagnosis
 - spot cluster core (HH)
 - spot cluster core (LL)
 - spot outlier (HL)
 - spot outlier (LH)
 - diagnosis
 - diabetes hot spot (HH, HL)
 - diabetes hot spot (HH, HL)
- with clinic
supermarket
census tract
community Area



Highlighted service area in Chicago



Source: CDC ([Mapping Census Tract Clusters of Type 2 Diabetes in a Primary Care Population](https://www.cdc.gov/diabetes/prevention/primary-care/populations/assessing-community-needs-and-resources/mapping-census-tract-clusters-of-type-2-diabetes-in-a-primary-care-population) (cdc.gov))

Measuring Community Risk

Composite Measures: Generalized Risk levels without specific factors

- Area Deprivation Index (HRSA/UW-Madison)
 - Neighborhood=Census Block Group Level
 - Source U.S. Census, American Community Survey 5-year
 - Identifies deciles ranking neighborhoods from the least disadvantage to the most disadvantaged to inform health delivery and policy
 - Includes factor for the theoretical domains of poverty
 - Income
 - Education
 - Employment
 - Housing quality
- Social Vulnerability Index (CDC)
 - Neighborhood=Census Tract
 - Source U.S. Census, American Community Survey 5-year
 - Identifying communities that will most likely need assistance before, during, after a hazardous event
 - 15 social factors (i.e., poverty, vehicle access, crowded housing)
 - Separate ranking on 4 themes and an overall ranking
 - Socioeconomic Status
 - Household Composition
 - Race/Ethnicity/Language
 - Housing/Transportation

Source: Center for Health Disparities Research (<https://www.neighborhoodatlas.medicine.wisc.edu/>) and U.S. CDC (https://www.atsdr.cdc.gov/placeandhealth/svi/at-a-glance_svi.html)

Measuring Community Risk

Measure Specific Risk/Protective Factors

- American Community Survey
 - 1-year estimates
 - Areas with Populations 65,000+
 - Not all geographies will have data
 - Current data >precise data
 - Smaller samples, more noise and suppression
 - 5-year estimates
 - Data for all areas
 - Suppression may occur, but rarer than 1-year estimates
 - More reliable, less current
- USDA
 - Food Research Atlas
 - Data on geographical food deserts
- Bureau of Labor Statistics
- Environmental Protection Agency
- Bureau of Transportation Statistics

Source: U.S. Bureau of the Census (<https://www.census.gov/programs-surveys/acs/guidance/estimates.html>)

Individual Level Risk

Pre-Assessment Data Sources for Individual Risk



Community
& Individual
Data

TransUnion^{tu}

LexisNexis[®]

EPSILON[®]

dun & bradstreet



Clinical
Data

Health System

Health Plan

Clearinghouse

Self-Insured Employer

SDOH Clinical Activities

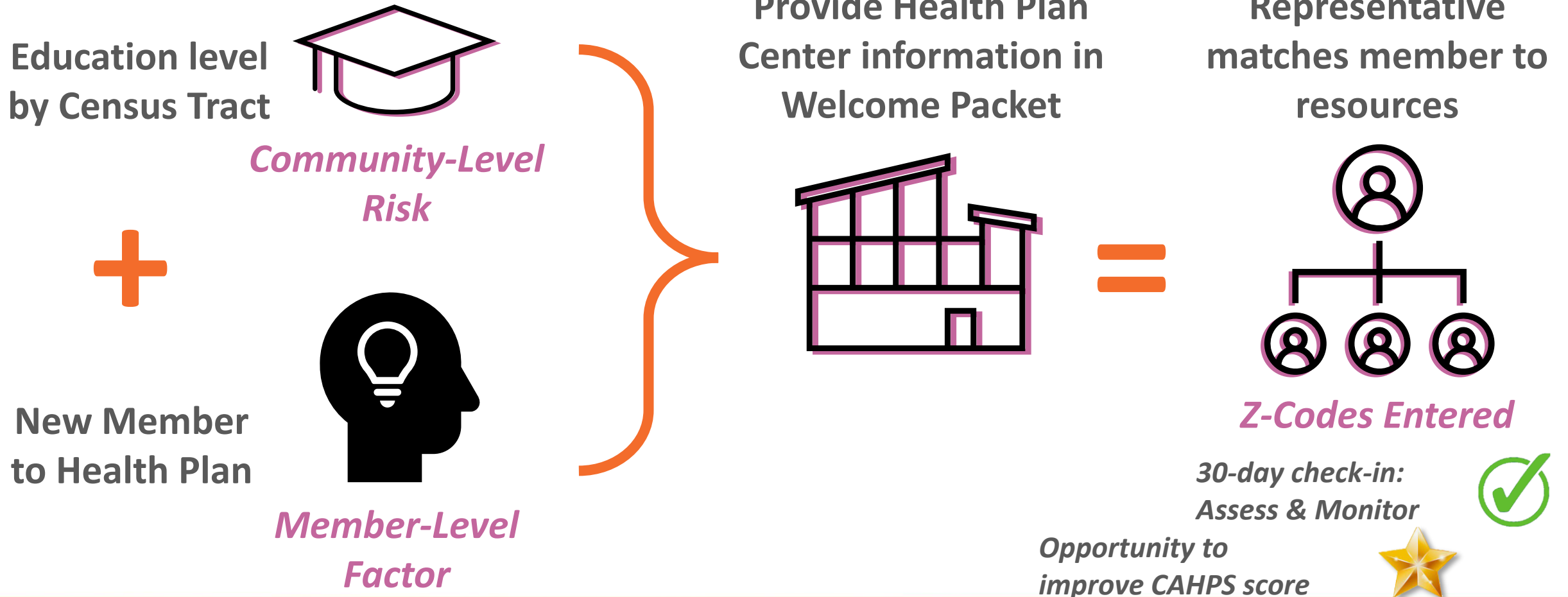
Individual patient risk assessment at the clinical level

- Assessment of Social Risk
 - Accountable Health Communities Health-Related Social Needs Screening Tool (AHC HRSN)
 - Comprehensive Universal Behavior Screen (CUBS)
 - Protocol for Responding to and Assessing Patients Assets, Risks and Experiences (PRAPARE)
 - PROMIS
 - We Care
 - WellRx
 - LOINC Codes
- Coding of Health Concern and Problems
 - ICD-10CM, SNOMED CT
- Patient Driven Goals
 - LOINC code
- Interventions
 - CPT/HCPCS, SNOMED CT
- Procedures Document Results
 - CPT/HCPCS, SNOMED CT
- Outcomes (Quality Measures)

Source: Gravity Project http://hl7.org/fhir/us/sdoh-clinicalcare/STU1/sdoh_clinical_care_scope.html

Tangible Results

Patient Care Experience – Health Literacy



Patient Care Experience – Food Insecurity

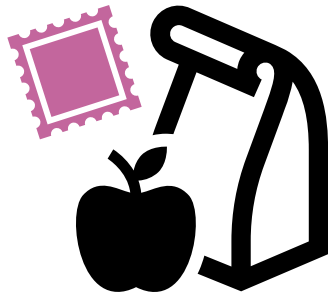
Food Access



Community-Level Risk

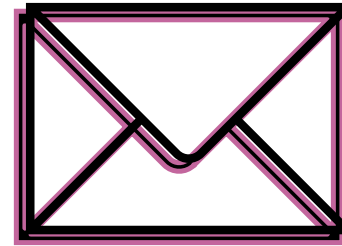


Member has SNAP benefits (food stamps)



Member-Level Factor

Mail information about Fresh Food Pharmacy



Care Management team coordinates application



Z-Codes Entered

30-day check-in:
Assess & Monitor



Opportunity to improve CAHPS score



Patient Care Experience – Transportation

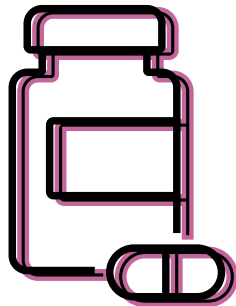
Distance to Pharmacy



Community-Level Risk



Missed Prescription Refill

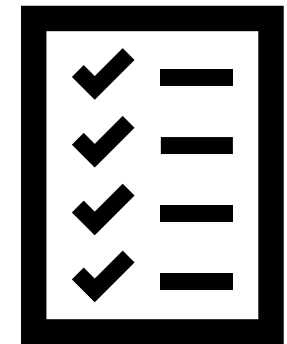


Member-Level Factor

Automated reminder phone call with option to speak to representative about barriers (side effects, transportation, cost)



Contact Center documents barrier



Z-Codes Entered

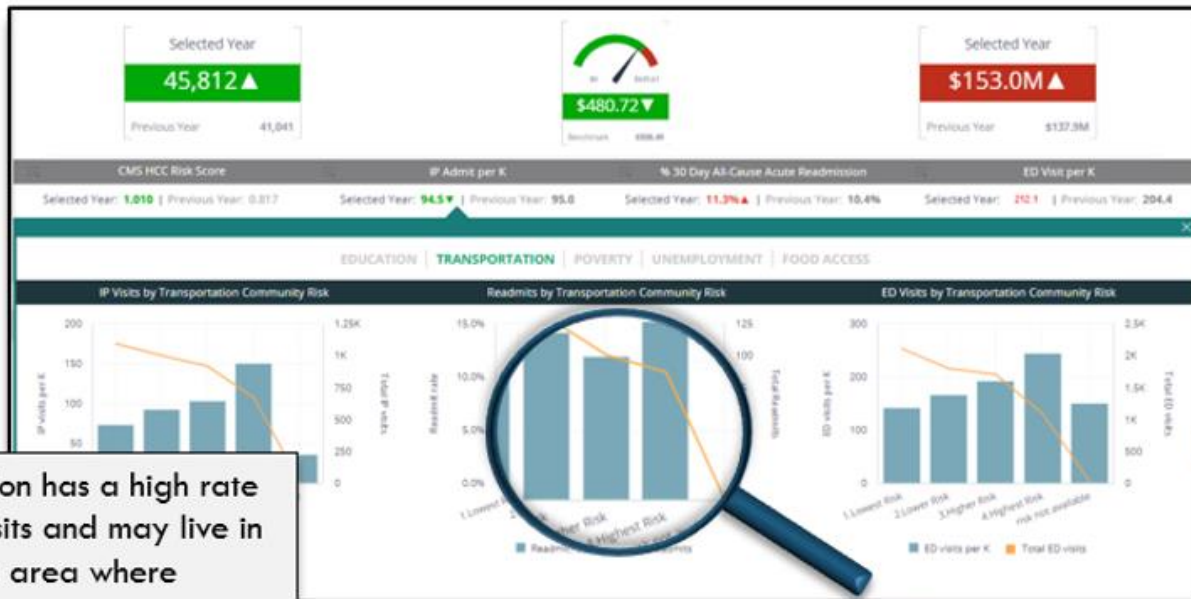
30-day check-in:
Assess & Monitor



Opportunity to improve CAHPS score



Member Use Cases



Identify the social determinants that impact the population being served, then **act** by designing a care model and interventions that address those disparities at the right place in the care continuum

Population has a high rate of ED visits and may live in an area where transportation is a problem

Large amount of the diabetic population

- ✓ Partner with rideshare programs
- ✓ Utilize mobile clinics
- ✓ Provide "Fresh Food Pharmacy"
- ✓ Leverage community health workers and care management team to go to the home
- ✓ Expand network to include more urgent cares
- ✓ Update health education material so its easily understandable



Member Example

Food Insecurities

Member	Provider	Health Plan	Vendor Partner/Internal
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Annual
Wellness Visit

January

SDOH Screening Assessment

Food Insecurities Identified

Z code entered

February

Data Exchange

Dashboard Monitoring

Community level risk (fresh food > 10 miles) + Individual level risk (food insecurities)

Fresh food credit/delivery
Adherence to medications

90 day fill

March

Outreach Campaign (member direct, provider workflow)

Source: Healthpayer intelligence ([U.S. emergency departments visits resulting from poor medication adherence: 2005-07 - PubMed \(nih.gov\)](https://pubmed.ncbi.nlm.nih.gov/200507/))

"More than 20% of emergency department visits related to medication nonadherence resulted in hospital admission, whereas only 12.7% of visits unrelated to nonadherence resulted in hospital admission (P < 0.0001)."

Program Guidance

Cohort Description	IP Count Current Year	Unplanned IP Readmit	ED Count Current Year	Total Payer Costs
Chronic Pancreatitis	0	0	0	\$1.78K
Coronary Artery Disease	0	0	0	\$1.78K
Intestinal Obstruction/Perforation	0	0	0	\$1.78K
Disorders of Immunity	0	0	3	\$11.47K
Pulmonary Disorders	0	0	0	\$1.97K
Psychological Disorders	0	0	0	2.55K
Morbid Obesity	0	0	2	3.02K
Seizure Disorders and Convulsions	0	0	0	2.00K
Congestive Heart Failure	1	0	0	
Morbid Obesity	1	0	0	
Specified Heart Arrhythmias	1	0	0	
Multiple Sclerosis	0	0	0	
Coronary Artery Disease	0	0	0	
Cancer	0	0	0	3.94K
Kidney Disease	0	0	1	2.77K
Peripheral Arterial Disease	0	0	1	\$2.77K
Pneumonia	0	0	1	\$2.77K
Peripheral Arterial Disease	0	0	0	\$4.31K
Diabetes	2	1	1	\$25.70K
Kidney Disease	2	1	1	\$25.70K
Myasthenia Gravis/Myoneural Disorders and Guilla...	2	1	1	\$25.70K
Multiple Sclerosis	0	0	0	\$1.33K
Other Significant Endocrine and Metabolic Disorders	0	0	0	\$1.33K
Peripheral Arterial Disease	1	0	0	\$21.07K
Pulmonary Disorders	1	0	0	\$21.07K

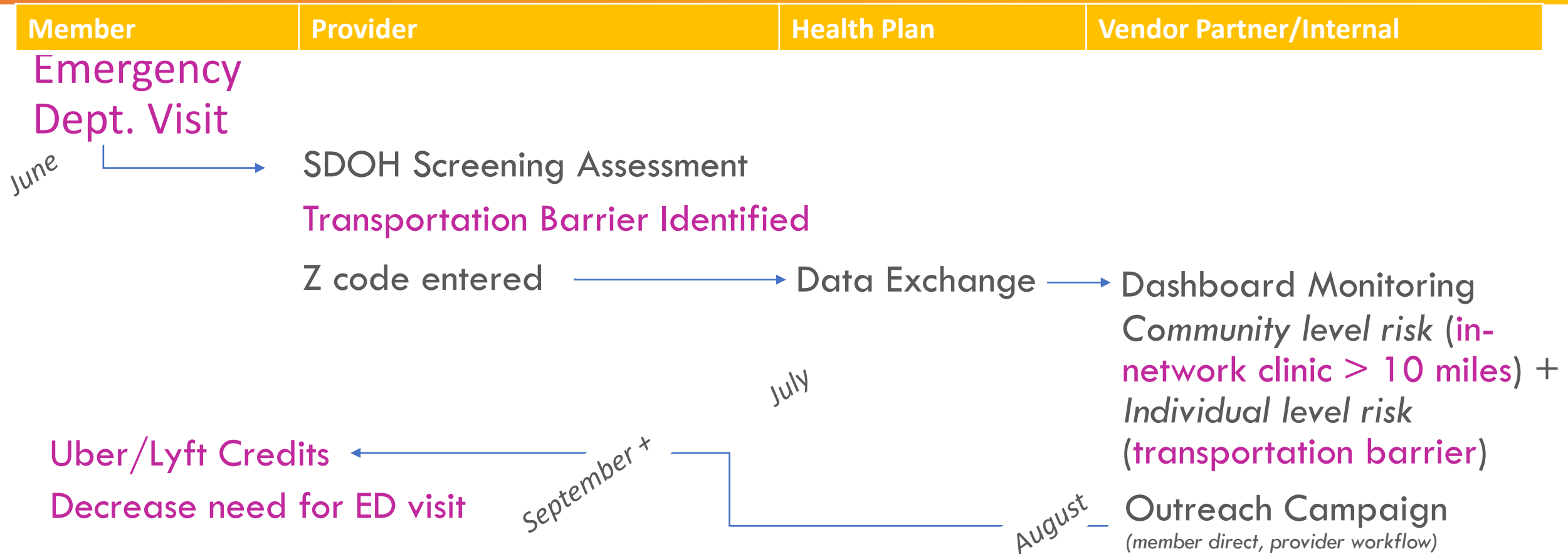
Develop programs for home meal deliveries and nutritional interventions guided by disease cohorts



Source: Evalu8 Product (Pulse8/Veradigm)

Member Example

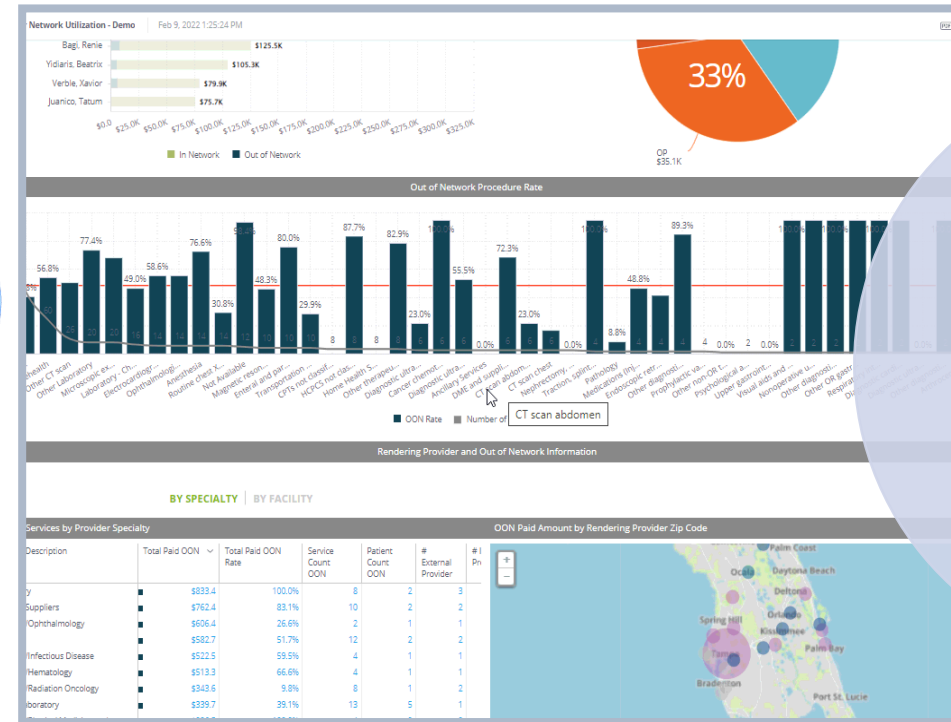
Transportation Barrier



Source: Healthpayer intelligence ([IJERPH | Free Full-Text | Non-Emergency Medical Transportation Needs of Middle-Aged and Older Adults: A Rural-Urban Comparison in Delaware, USA \(mdpi.com\)](#))

“Older adults in rural areas have unique transportation barriers to accessing medical care, which include a lack of mass transit options and considerable distances to health-related services”

Address care coordination gaps that are a result of the transportation gap



Update the provider workflow to help refer to the appropriate providers and assist with ensuring they can get help with transportation

Source: Evalu8 Product (Pulse8/Veradigm)

Questions?

THANK YOU



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