

SDoH Impacts on Medicaid Patient Management

Working Together to Identify and Address
Social Determinants of Health

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Agenda

- Nebraska Health Network (NHN) overview
- Social Determinants of Health Impacts
- SDoH in Action
- Application in Medicaid VBCs

NHN overview

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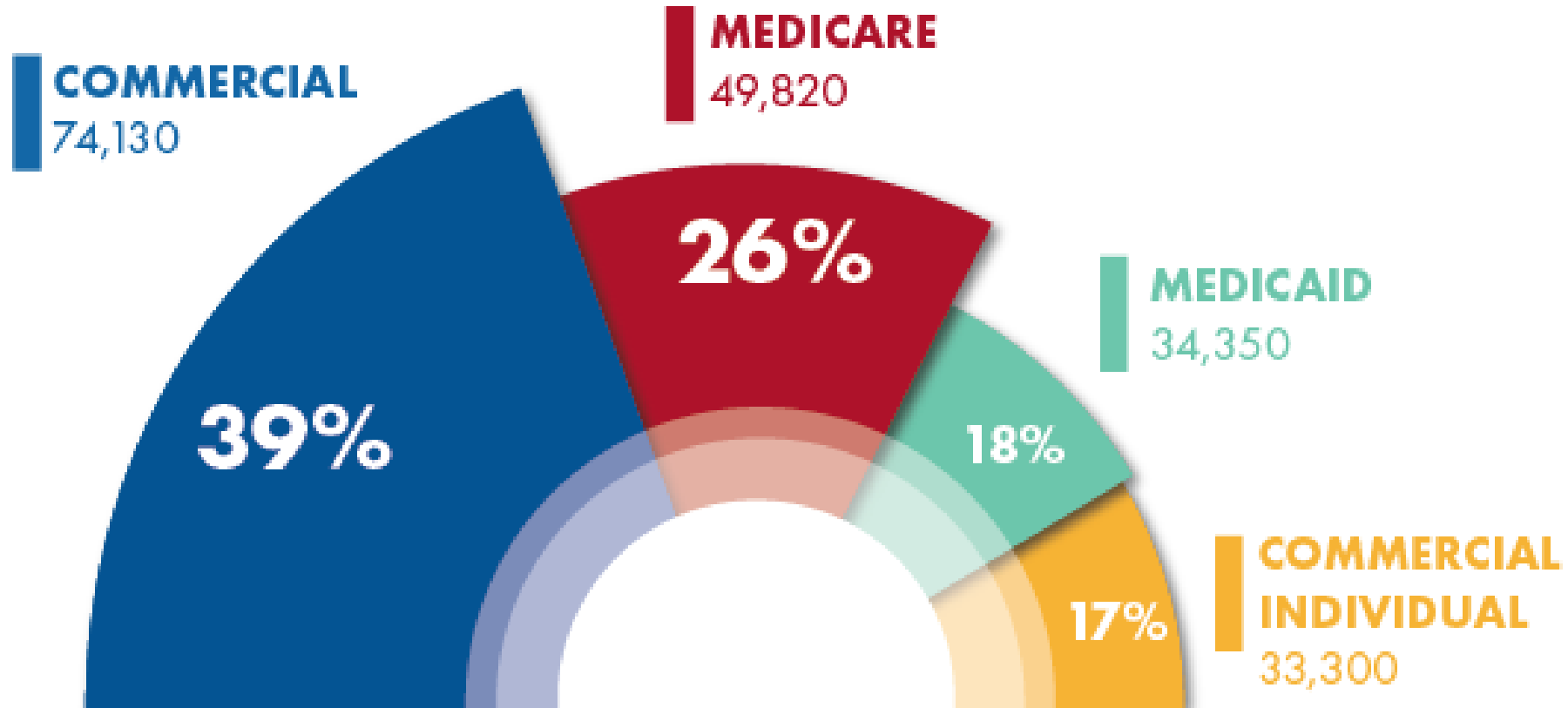


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Value-Based Contract Lives



191,600 Covered Lives

SDoH Impacts

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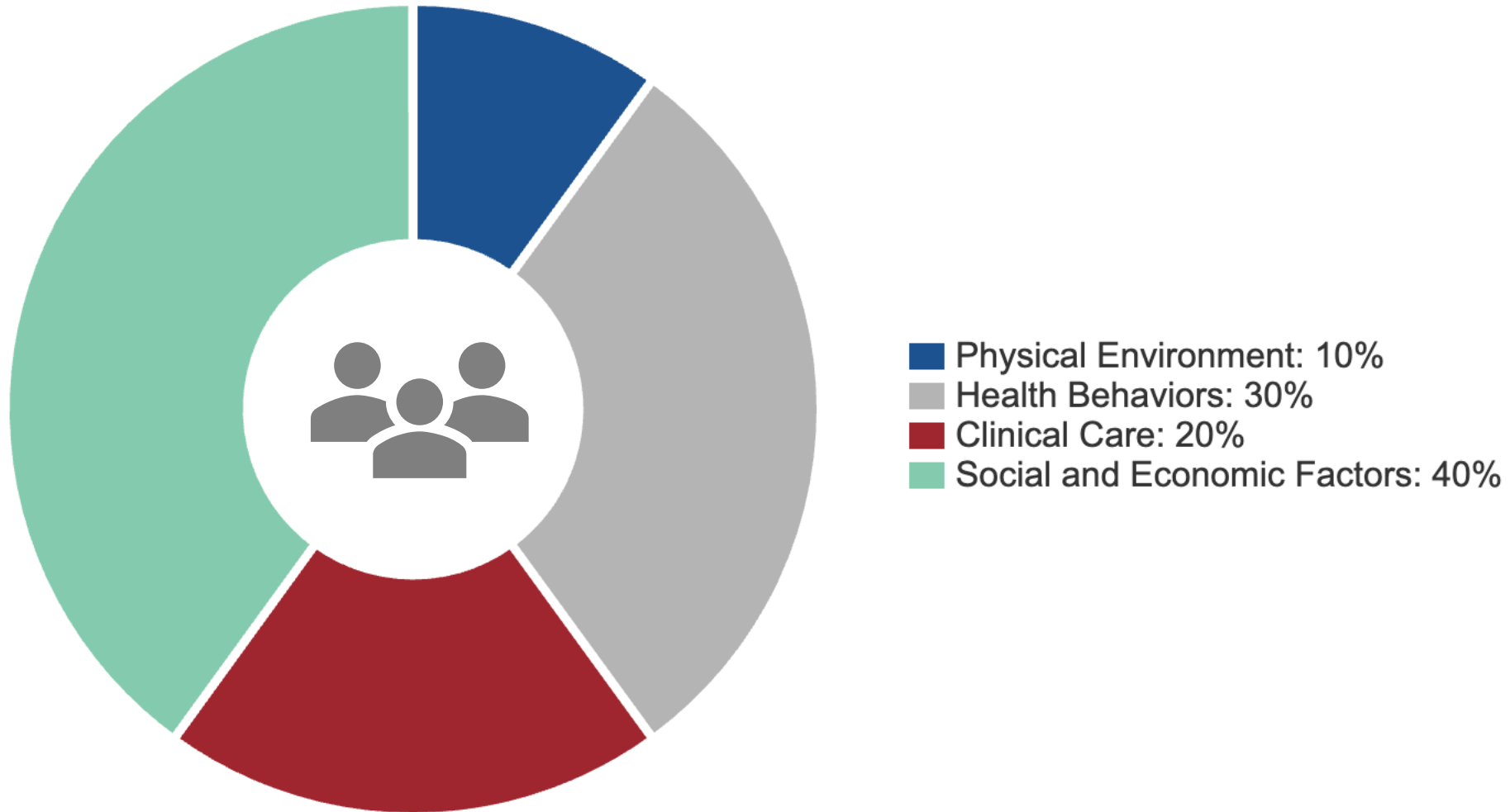


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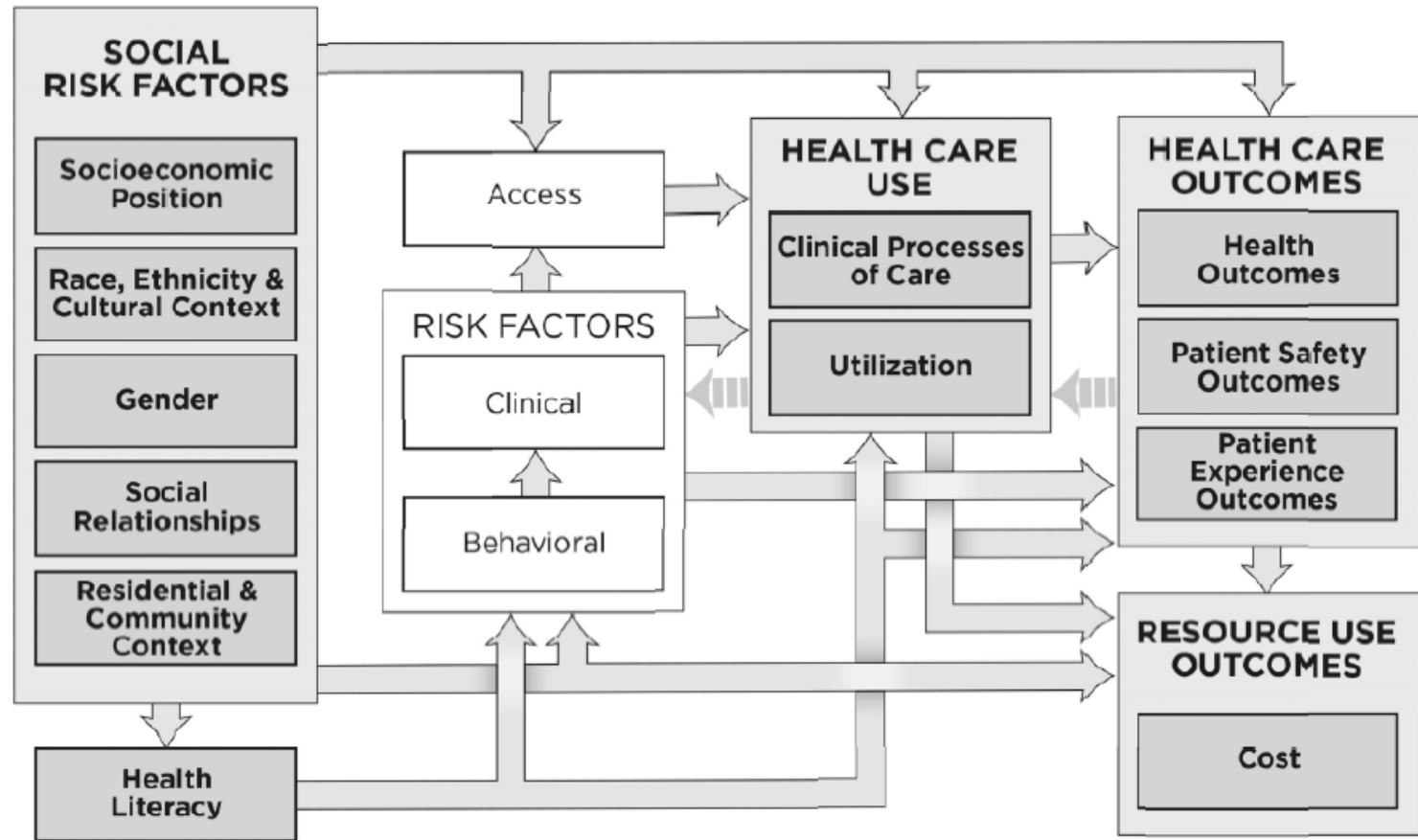
Clinical Outcome Dependencies



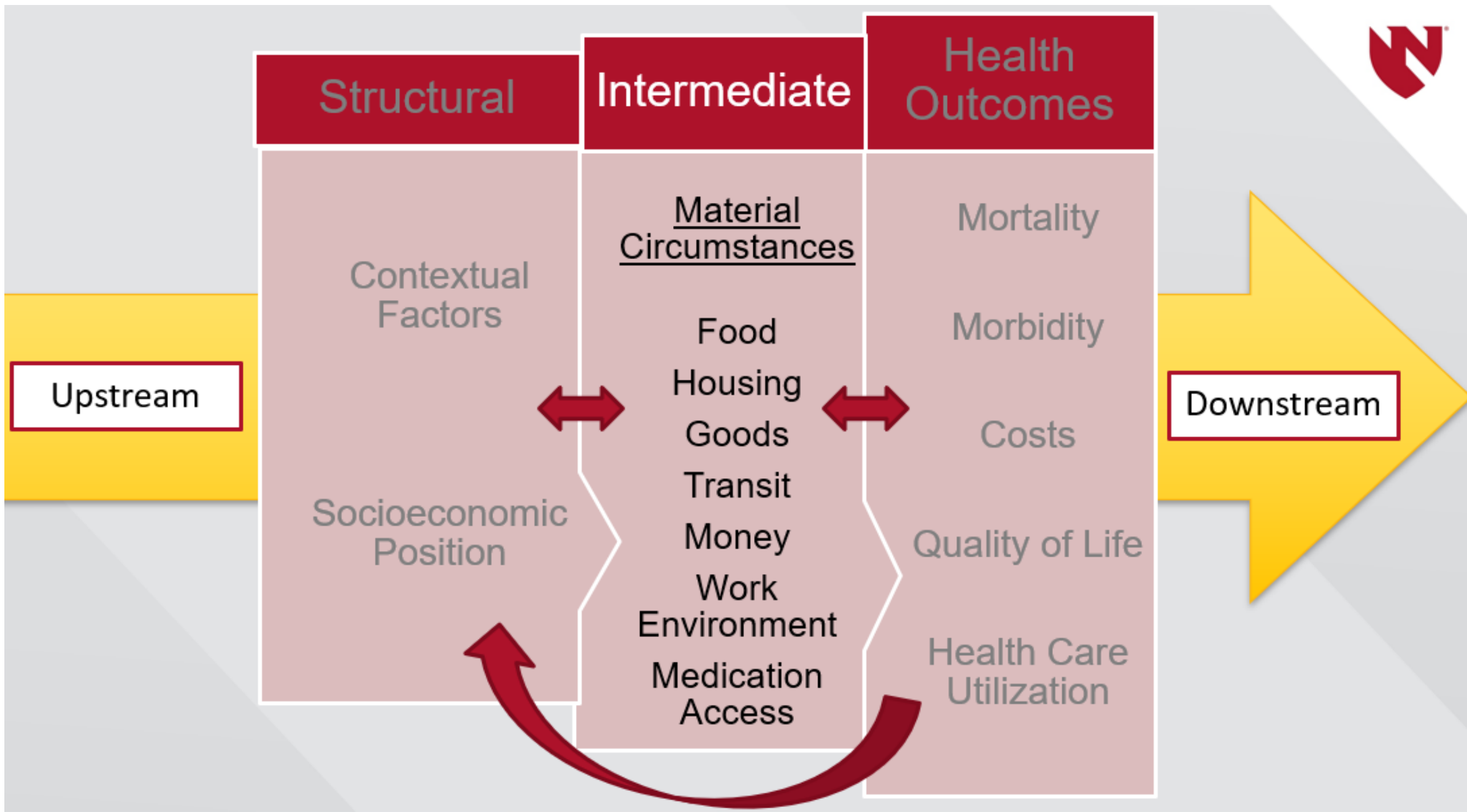
IMPACT Findings

1. Social Risk Factors impact many quality measures regardless of the providers they saw.
2. Providers disproportionately serving beneficiaries with social risk factors tended to have worse performance and pay somewhat higher penalties.

Figure 2.1. National Academies of Sciences, Engineering, and Medicine's Conceptual Framework of Social Risk Factors for Healthcare Use, Outcomes, and Cost



Source: National Academies of Sciences, Engineering, and Medicine. Accounting for Social Risk Factors in Medicare Payment: Identifying Social Risk Factors. Washington, DC: National Academies of Sciences, Engineering, and Medicine; 2016.



Upstream

Downstream

Structural

Intermediate

Health Outcomes

Contextual Factors

Material Circumstances

Mortality

Food
Housing
Goods
Transit
Money
Work Environment
Medication Access

Morbidity

Costs

Socioeconomic Position

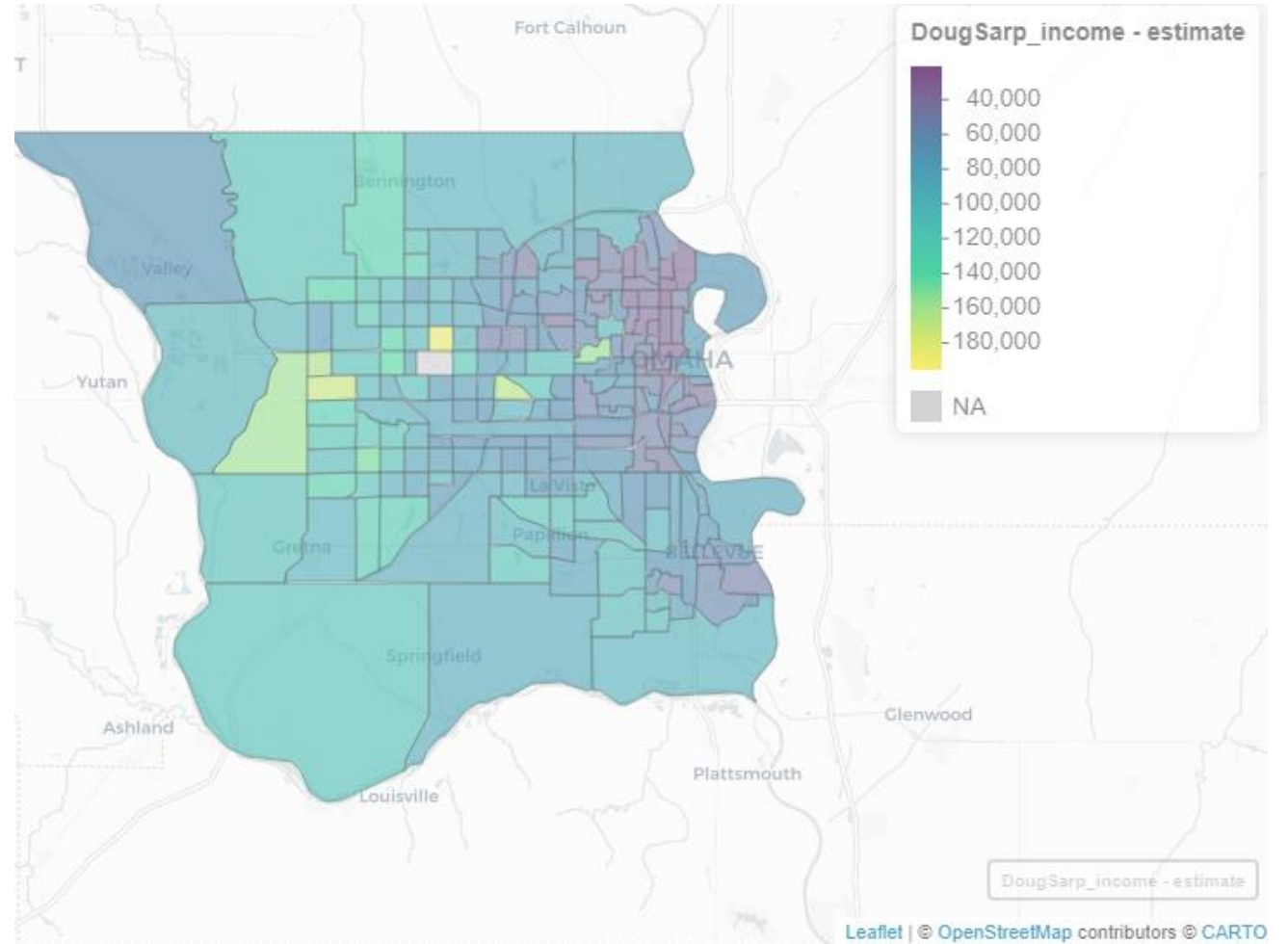
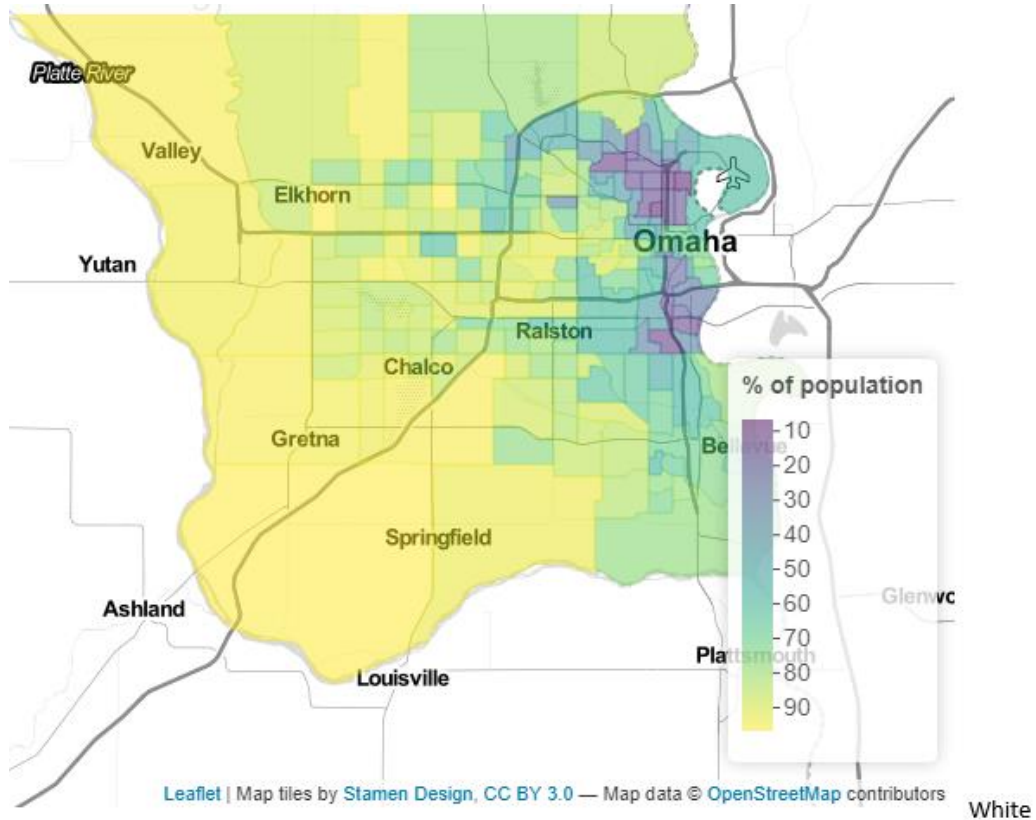
Quality of Life

Health Care Utilization

Local Determinants

SDOH Category	Measurement	Region of Douglas County			
		NE	SE	NW	SW
Material Circumstances	Worry or Stress over Mortgage or Rent in Past Year	27.8%	24.8%	17.4%	19.6%
	Often or Sometimes Worry that Food Will Run Out	21.2%	15.8%	8.4%	9.7%
	Lack Health Insurance	10.0%	15.8%	9.1%	4.2%
	Cost Prevented Getting Prescriptions Last Year	16.1%	9.0%	11.9%	10.3%
	Skipped Prescription doses to save costs	16.1%	9.4%	9.1%	11.5%
	Transportation Limited Healthcare Visit	9.0%	8.6%	2.0%	1.1%
Education	Low Health Literacy	20.0%	21.5%	8.9%	9.8%
Health Systems	Difficulty Accessing Healthcare in Past Year	40.4%	33.0%	35.3%	30.4%
	Cost Prevented Physician Visit in Past Year	15.5%	11.1%	10.3%	8.6%

Local Example



Application in an outpatient clinic

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Our Goals for SDoH

1. Identify and address Social Determinants of Health that affect our local community to improve patient lives
2. Provide a *free comprehensive* resource to help Nebraskans connect with the services and support they need



Social Determinants of Health



Food

Community Gardens, Food Pantries, Nutrition, Meal Planning, Financial Assistance and More



Housing

Temporary Housing, Residential Repairs, Housing Advice and Financial Assistance



Goods

Household Items, Toys, Clothing, Personal Safety, Medical Supplies



Health

Nutrition, Medical Care, Mental Health, Vision Care, End of Life, Health Education



Money

Financial Education, Assistance, Insurance, Loans, Tax Preparation, Insurance



Transit

Bus Passes, Financial Assistance for Gas or Public Transportation



Care

End of Life, Daytime Care, Physical Safety, Residential Care, Animal Welfare



Education

Preschool, Screenings and Exams, Financial Assistance, Skills and Training



Work

Job Placement, Workplace Rights, Skills and Training, Supported Employment



Legal

Mediation, Representation, Translation and Interpretation

Durham Outpatient Center Family Medicine

- Two providers participated in the 9-month pilot
- Patients received a paper self-screen
 1. Identify current issues/concerns
 2. Confirm whether they want to discuss concerns with their provider
- All patients received educational materials regardless of whether they opted-in

SOCIAL ASSESSMENT FORM

This form helps us identify any issues, concerns or challenges that may be impacting your health and wellbeing. You will have the **option** to discuss your responses with your health-care team. Regardless of whether or not you choose to discuss your responses with your provider, we encourage you to visit CommunityRelay.com. Community Relay is a free, confidential resource that enables you to search for free- or reduced-cost programs and services by zip code.

I prefer not to complete this form

1 Please mark any of the following areas that may be impacting your health and wellbeing:

<input type="checkbox"/> FOOD Food pantries, nutrition, meal planning	<input type="checkbox"/> HOUSING Temporary housing, repairs, financial assistance	<input type="checkbox"/> GOODS Household items, toys, clothing, medical supplies	<input type="checkbox"/> MEDICAL Nutrition, medical care, vision care	<input type="checkbox"/> FINANCIAL Financial education, tax preparation, insurance
<input type="checkbox"/> TRANSIT Bus passes, financial assistance for gas or public transportation	<input type="checkbox"/> CARE End of life, daytime care, residential care	<input type="checkbox"/> EDUCATION Preschool, screening and exams, financial assistance	<input type="checkbox"/> EMPLOYMENT Job placement, workplace rights, skills and training	<input type="checkbox"/> LEGAL Mediation, representation, interpretation

2 Please feel free to share any supporting information and/or share additional non-medical concerns:

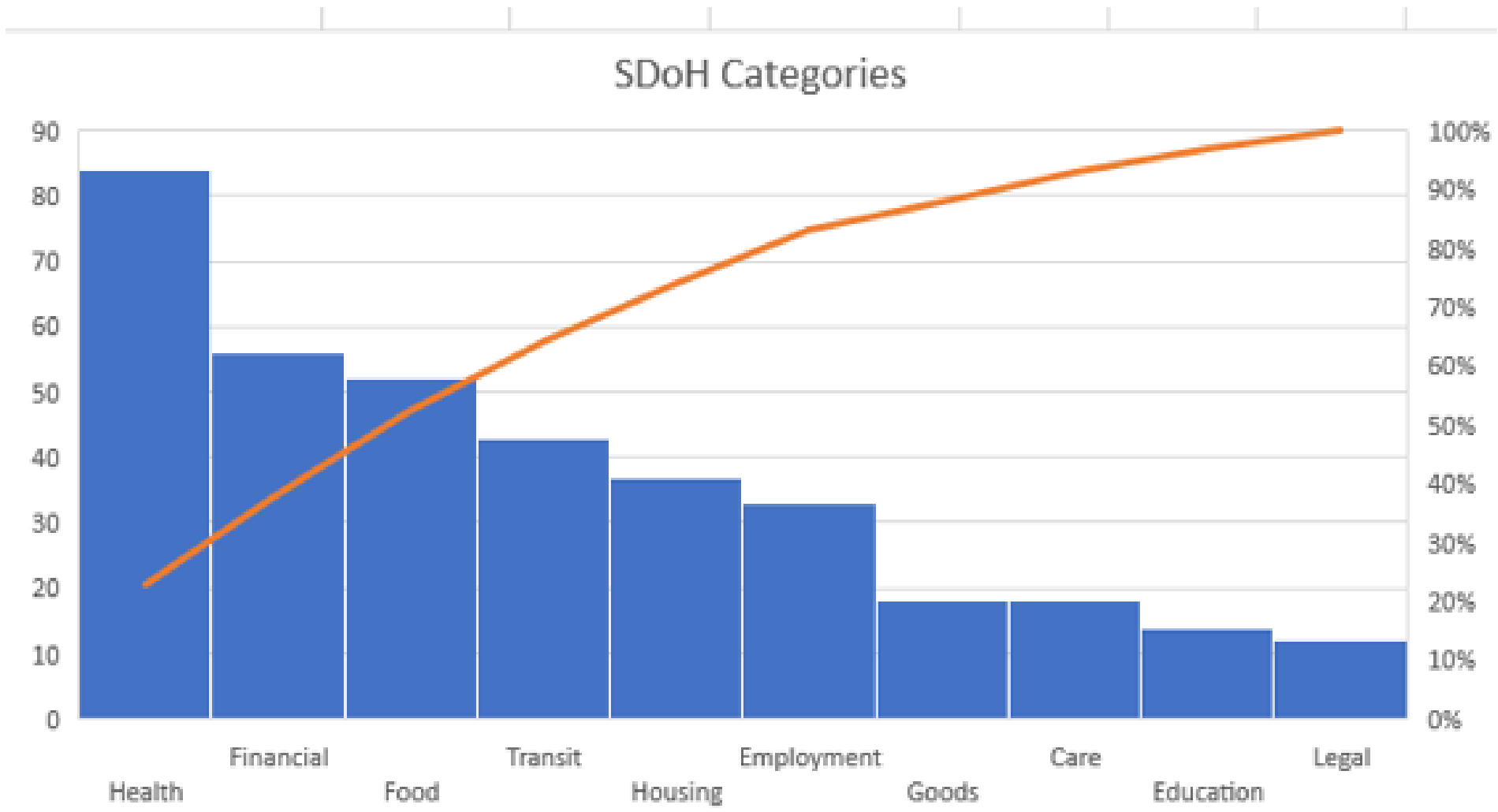
3 Would you like to discuss your responses with a member of your health-care team?

YES NO

None of the above apply to me today



NM DOC SDoH Identified



Medicaid Impact

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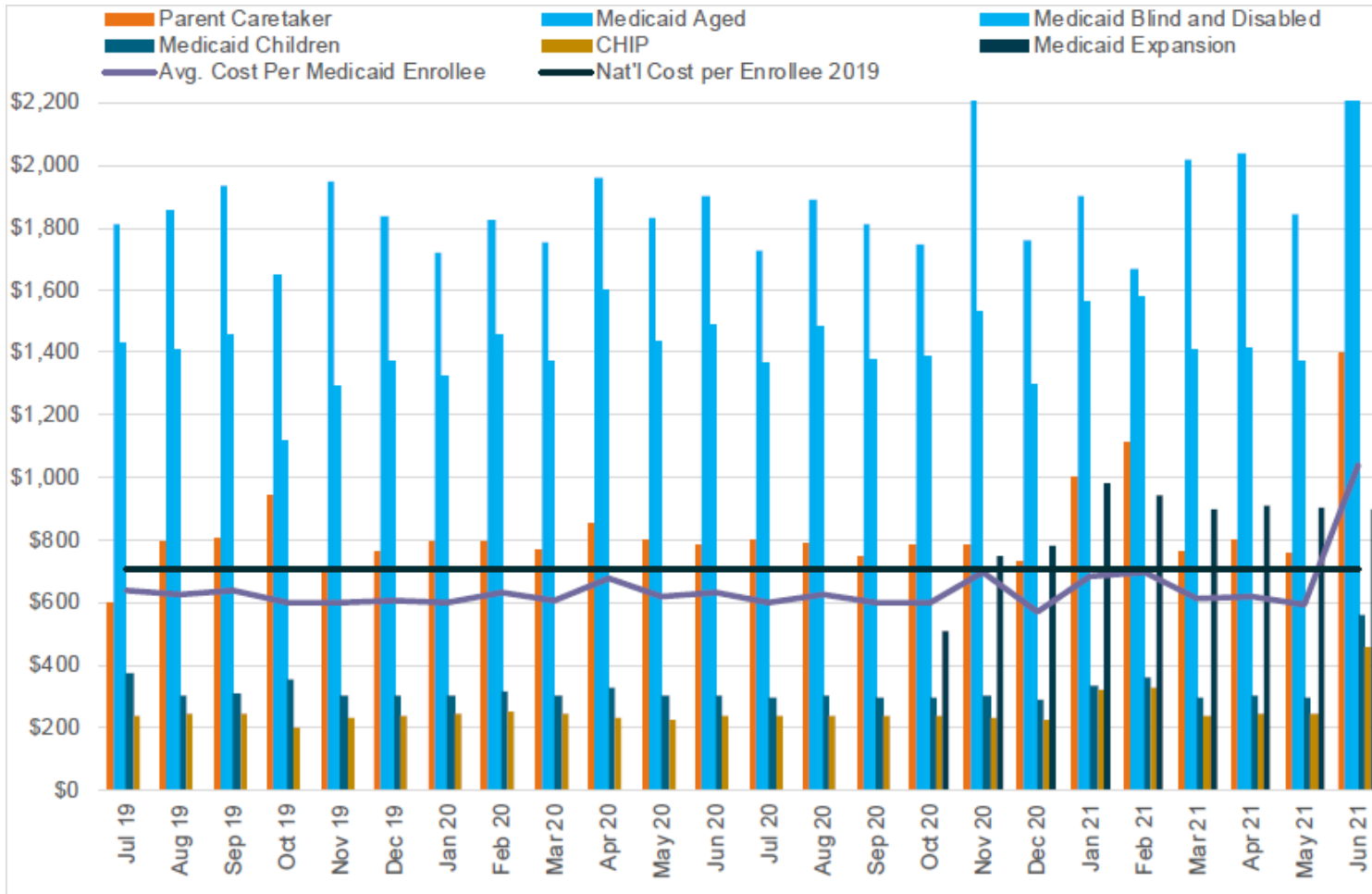


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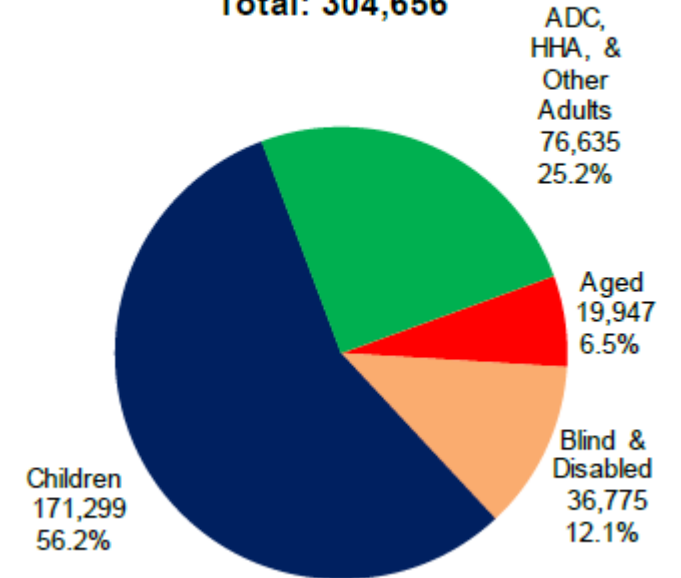


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Nebraska Medicaid Cost per Enrollee



ELIGIBLE PERSONS BY CATEGORY
Fiscal Year 2021
Total: 304,656



Including SDOH as Contract Requirements

Figure 12

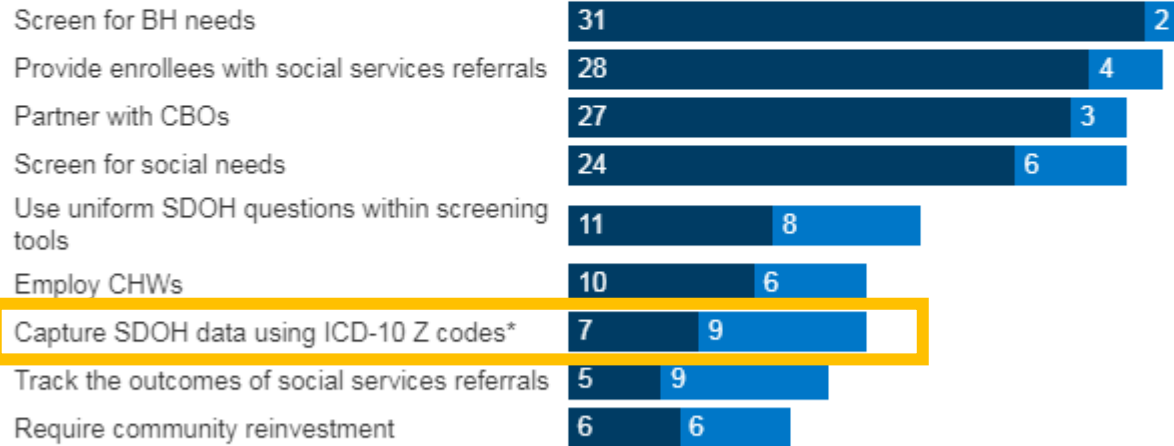
In FY 2021, Most MCO States Had at Least One MCO Contract Requirement Related to Social Determinants of Health.

■ In Place in FY 2021 ■ Plan to Require in FY 2022

Any MCO Requirements Related to SDOH



Specific MCO Requirements Related to SDOH



NOTE: Data are as of July 1, 2021. Response rates per policy varied. States planning to require any MCO requirement related to SDOH in FY 2022 include all states that indicated plans to require at least one specific MCO policy. BH = behavioral health. CBOs = community-based organizations. CHWs = community health workers. *ICD-10 Z codes are a subset of the ICD-10 diagnosis codes that reflect patient social characteristics. DE, MN, NM, and RI did not respond to the 2021 survey.

SOURCE: KFF survey of Medicaid officials in 50 states and DC conducted by HMA, October 2021. • PNG

SDoH Z Code Examples

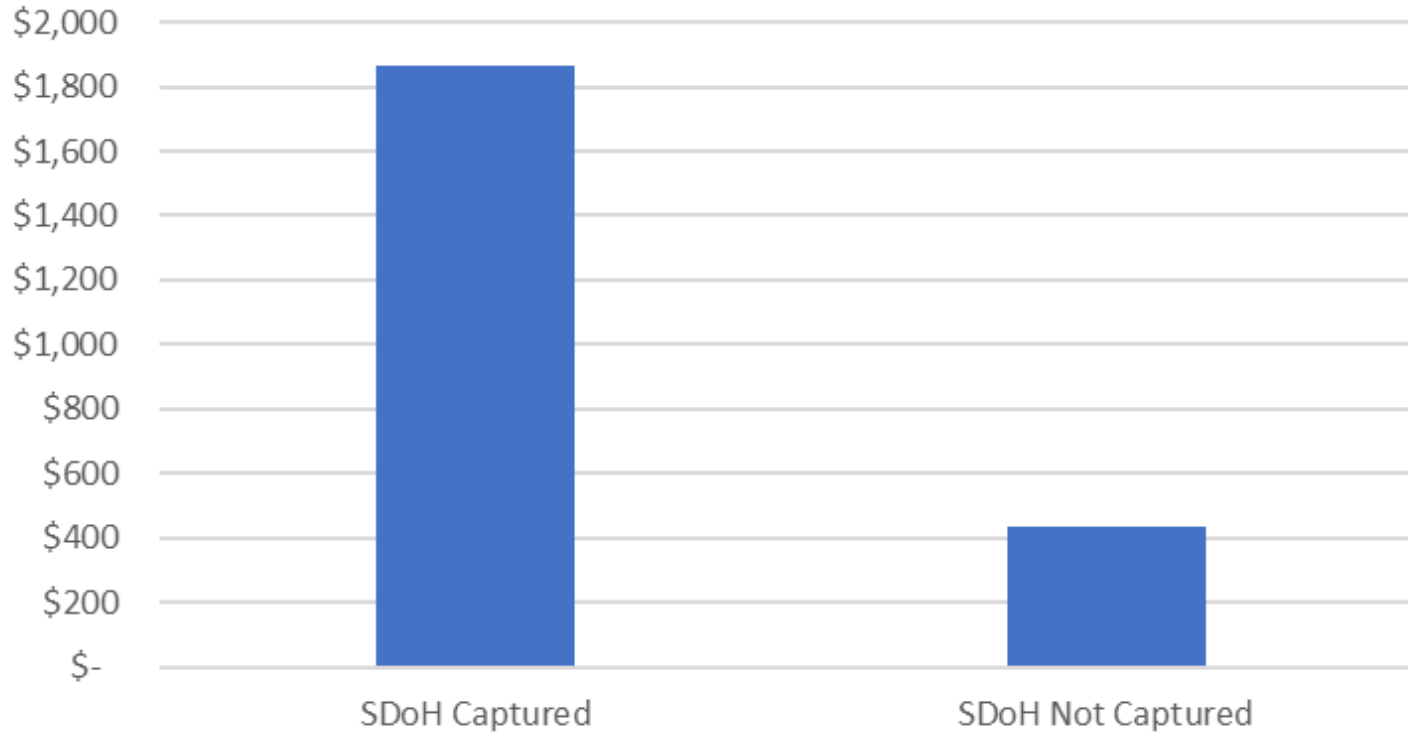
Z code examples

Z55.1	Schooling unavailable and unattainable
Z55.8	Other problems related to education and literacy
Z56.2	Threat of job loss
Z56.5	Uncongenial work environment (difficult conditions at work)
Z57.3, 39	Occupational exposure to other air contaminants
Z57.8	Occupational exposure to other risk factors
Z59.4	Lack of adequate food
Z59.6	Low income
Z59.8	Other problems related to housing and economic circumstances
Z60.2	Problems related to living alone
Z60.9	Problems related to social environment, unspecified
Z63.7	Other stressful life events affecting family and household
Z63.79	Other stressful life events affecting family and household (anxiety (normal) about sick person in family, health problems within family, ill or disturbed family member, isolated family)

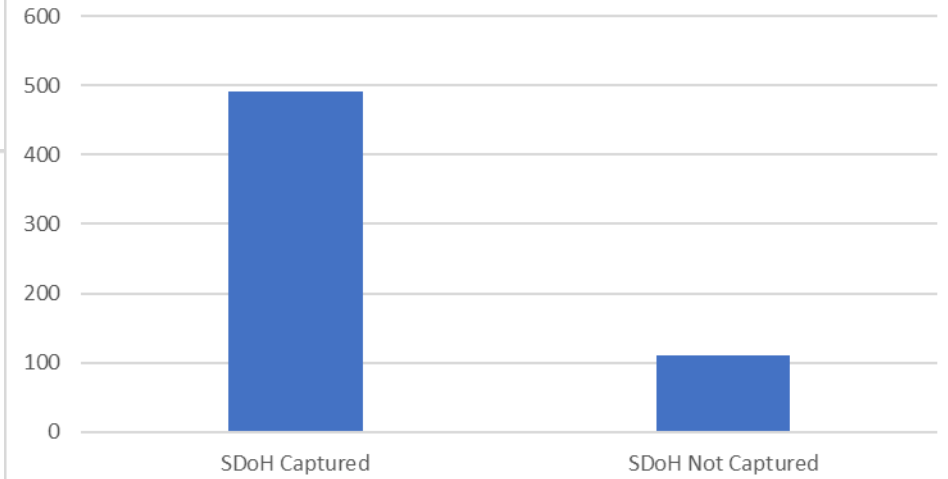


SDoH Z Code Capture in Medicaid

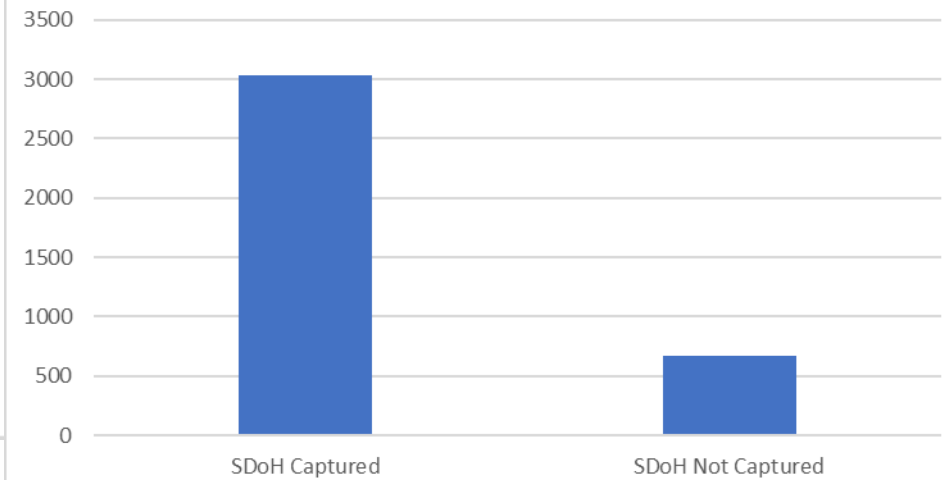
PMPM



Inpatient per thousand



ED per thousand



Including SDOH Z-Codes in Risk Calculation

Table 4: Model Comparison of Predictive Ratio Statistics

Calibration Risk Cohort	SDOH-Related Risk Marker	CDPS+Rx Nationwide Weights [1]	CDPS+Rx AZ Specific Weights [2]	CDPS+Rx AZ Specific Weights+SDOH [3]
Age 1-20	Z59, Housing problems	0.898	0.780	0.995
	Z62, Parent problems	0.669	0.602	0.994
	Z63, Family problems	0.745	0.667	0.996
	Z65, Criminal problems	0.629	0.550	0.993
	SVI Zip Code	0.982	0.934	1.000
TANF	Z59, Housing problems	0.714	0.847	0.997
	Z62, Parent problems	0.743	0.868	1.004
	Z63, Family problems	0.848	0.939	0.998
	Z65, Criminal problems	0.747	0.879	1.005
	SVI Zip Code	0.940	0.974	1.003
SSI Without Medicare	Z59, Housing problems	0.871	0.948	0.956
	Z62, Parent problems	0.628	0.722	0.938
	Z63, Family problems	0.898	0.969	0.923
	Z65, Criminal problems	0.831	0.907	0.964
	SVI Zip Code	0.994	1.057	1.006



References

- Anthony Donovan, PharmD, Master of Public Health Candidate - Epidemiology APEX Project, University of Nebraska Medical Center College of Public Health. [Unpublished], 2021. Available at: <https://youtu.be/InQhfWsgXoA>
- <https://www.wakely.com/sites/default/files/files/content/social-determinants-health-and-risk-adjustment.pdf> “Social Determinants of health (SDOH) And Risk Adjustment: Arizona Medicaid Innovations – Impact of Incorporating Social Risk Factors in Capitation
- <https://www.kff.org/medicaid/issue-brief/10-things-to-know-about-medicaid-managed-care/>
- Source:
https://nebraskalegislature.gov/FloorDocs/107/PDF/Agencies/Health_and_Human_Services__Department_of/107_20211130-091110.pdf
- <https://aspe.hhs.gov/sites/default/files/private/pdf/253971/ASPESESRTCfull.pdf> Report to Congress: Social Risk Factors and Performance Under Medicare’s Value-Based Purchasing Programs