

The Importance of Addressing Social Determinants of Health

July 2020



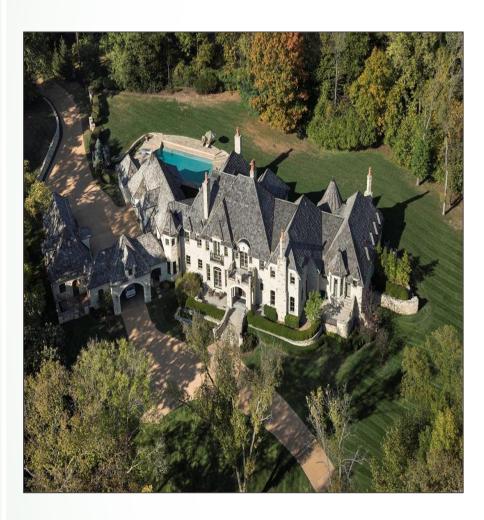
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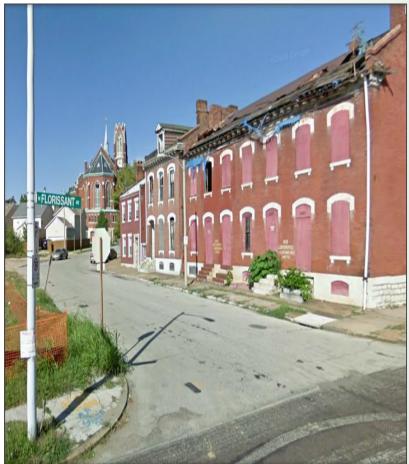
Changing Landscape in Health Care



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Your Zip Code Equals Your Health





Define Social Determinants of Health

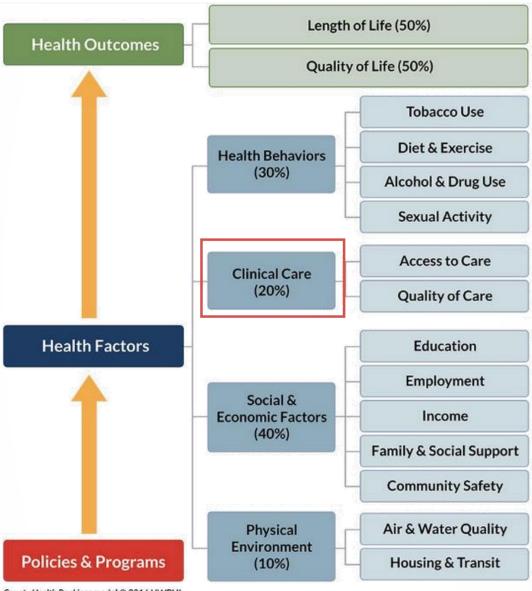
"According to the Centers for Disease Control and Prevention, conditions in the places where people live, learn, work, and play affect a wide range of health risks and outcomes. These conditions are known as social determinants of health."

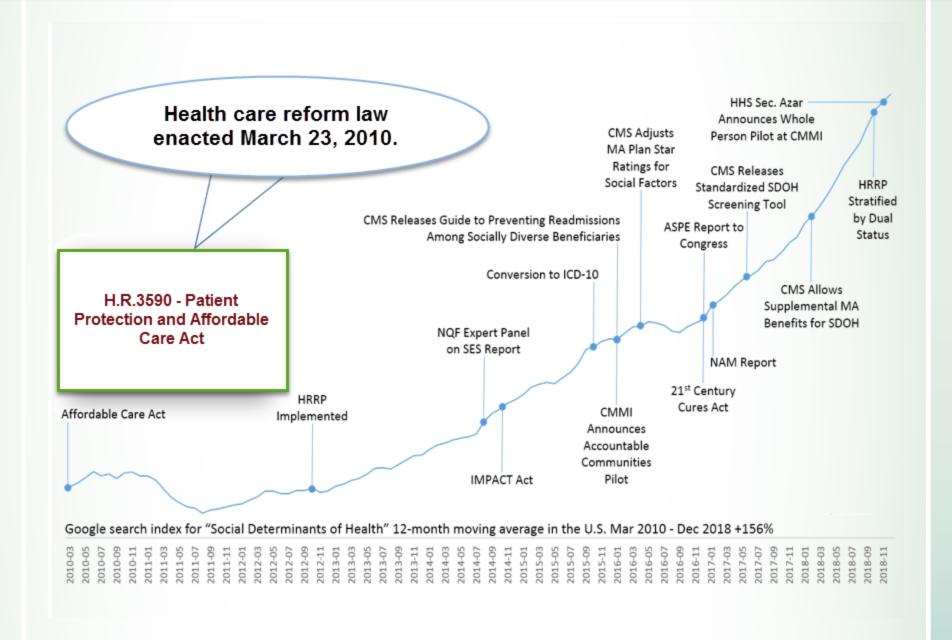
Social Determinants of Health

SDOH Dimension	Description
Housing Instability	Having difficulty paying rent or affording a place of one's own, living in overcrowded or run-down conditions
Food Insecurity	Not having reliable access to enough affordable, nutritious food
Transportation	Not having affordable and reliable ways to get to medical appointments or purchase healthy food
Education	Not having access to high school classes or other training
Utility Needs	Not being able to regularly pay utility bills
Violence	Being exposed to use of physical force or power that results in, or has a high likelihood of resulting in, injury or death
Family and Social Support	Not having relationships that provide interaction and nurturing
Employment and Income	Not having the ability to get or keep a job

Source: Deloitte Center for Health Solutions

County Health Rankings Model





AMA, UnitedHealthcare team up on

billing codes that address social determinants of health

The two organizations are working together to standardize how data is collected, processed and integrated regarding SDoH.



Jeff Lagasse, Associate Editor

MORE ON BILLING AND COLLECTIONS









Blue Cross Blue Shield Institute Launches **Program to Address Social Determinants of** Health at The Community Level

by Fred Pennic 03/26/2019 0 Comments



Blue Cross Blue Shield Institute is teaming up with Solera Health to launch a new program to effectively address social determinants of health (SDOH) at the community level. The national rollout of the program expected to launch in Q2 2019 will focus on the unique environmental and cultural influences and barriers to successfully coordinating regional SDOH resources at scale.Reaching Beyond Population HealthBy tailoring local SDOH resource recommendations to directly align with

individual

Source: https://hitconsultant.net/2019/03/26/bcbs-solera-health-social-determinants-of-health/#.XMCRj2I7mUk

Source: https://www.healthcarefinancenews.com/news/ama-unitedhealthcare-team-billing-codes-address-social-determinants-

health



Case Study – Social Determinants of Health



SDOH Collection Tools

SDOH Standardized Screening Tools

- ICD-10 Z Codes in Hospital Setting
- Electronic Health Record Platforms
- Protocol for Responding to and Assessing
 Patients' Assets, Risks, and Experiences Tool
- American Academy of Family Physicians Social Needs Screening Tool
- The Centers for Medicare & Medicaid Services
 Accountable Health Communities
- Self-Sufficiency Outcomes Matrix
- Roots to Health Survey

ICD-10 Z Codes — Social Determinants of Health



Table 1 ICD-10-CM Code Categories

ICD-10-CM Code Category	Problems/Risk Factors Included in Category
Z55 – Problems related to education and literacy	Illiteracy, schooling unavailable, underachievement in a school, educational maladjustment and discord with teachers and classmates.
Z56 – Problems related to employment and unemployment	Unemployment, change of job, threat of job loss, stressful work schedule, discord with boss and workmates, uncongenial work environment, sexual harassment on the job, and military deployment status.
Z57 – Occupational exposure to risk factors	Occupational exposure to noise, radiation, dust, environmental tobacco smoke, toxic agents in agriculture, toxic agents in other industries, extreme temperature, and vibration.
Z59 – Problems related to housing and economic circumstances	Homelessness, inadequate housing, discord with neighbors, lodgers and landlord, problems related to living in residential institutions, lack of adequate food and safe drinking water, extreme poverty, low income, insufficient social insurance and welfare support.
Z60 – Problems related to social environment	Adjustment to life-cycle transitions, living alone, acculturation difficulty, social exclusion and rejection, target of adverse discrimination and persecution.
Z62 – Problems related to upbringing	Inadequate parental supervision and control, parental overprotection, upbringing away from parents, child in welfare custody, institutional upbringing, hostility towards and scapegoating of child, inappropriate excessive parental pressure, personal history of abuse in childhood, personal history of neglect in childhood, Z62.819 Personal history of unspecified abuse in childhood, Parent-child conflict, and sibling rivalry
Z63 – Other problems related to primary support group, including family circumstances	Absence of family member, disappearance and death of family member, disruption of family by separation and divorce, dependent relative needing care at home, stressful life events affecting family and household, stress on family due to return of family member from military deployment, alcoholism and drug addiction in family.
Z64 – Problems related to certain psychosocial circumstances	Unwanted pregnancy, multiparity, and discord with counselors.
Z65 – Problems related to other psychosocial circumstances	Conviction in civil and criminal proceedings without imprisonment, imprisonment and other incarceration, release from prison, other legal circumstances, victim of crime and terrorism, and exposure to disaster, war and other hostilities.

Source: American Hospital Association

Utilization of ICD-10 Z Codes in Missouri Hospitals — Baseline



Source: Missouri Hospital Association – <u>Decoding Social Determinants of Health, 2018</u>

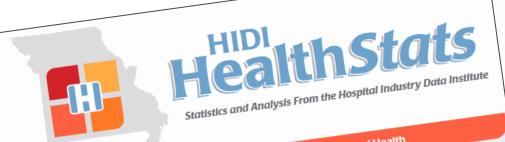
Top Z Codes Documented in Missouri

- Homelessness Z690
- Unemployment Z560
- Transportation Z91.89
- Personal history of physical and sexual abuse in childhood – Z62810
- Problem related to primary support group Z639
- Problem related to social environment Z609
- Other problems related to social environment Z608
- Problems related to housing and economic status
 - -2599

Community Health Issues and Z Codes

Access to Health Care	Heart Disease	Diabetes	Mental Health	Cancer	Substance Use/Opioids
Problems related to education and literacy, unspecified (Z559)	Problems related to education and literacy, unspecified (Z559)	Problems related to education and literacy, unspecified (Z559)	Problems related to education and literacy, unspecified (Z559)	Problems related to education and literacy, unspecified (Z559)	Problems related to education and literacy, unspecified (Z559)
Insufficient social insurance and welfare support (Z597)	Lack of adequate food and safe drinking water (Z594)	Lack of adequate food and safe drinking water (Z594)	Personal history of physical and sexual abuse in childhood (Z62810)	Occupational exposure to toxic agents in other industries (Z575)	Personal history of adult physical and sexual abuse (Z91410)
Other problems related to housing and economic circumstances (Z598)	Patient's noncompliance with other medical treatment and regimen (Z9119)	Patient's noncompliance with other medical treatment and regimen (Z9119)	Problems related to primary support group, unspecified (Z639)	Patient's noncompliance with other medical treatment and regimen (Z9119)	Problems related to primary support group, unspecified (Z639)
Unemployment, unspecified (Z560)	Patient's other noncompliance with medication regimen (Z9114)	Patient's other noncompliance with medication regimen (Z9114)	Personal history of psychological abuse in childhood (Z62811)	Patient's other noncompliance with medication regimen (Z9114)	Personal history of psychological abuse in childhood (Z62811)

Coding for Social Determinants of Health Updates — Missouri



JANUARY 2020 Z Codes for Social Determinants of Health



Z Codes for Social Determinants of Health: Which hospitals are most likely to use them and for which patients?

In its September 2018 report Decoding Social Determinants of Health, the Missouri Hospital Association published research on an emerging source of exceptionally granular data on patient-level social determinants of health. A scan of the current policy and care delivery landscape alludes to myriad direct and indirect benefits for providers that systematically screen for and capture ICD-10 Z codes for SDOH on uniform billing and claims records. The research first found that the use of Z

codes for SDOH increased significantly among Missouri hospitals since the implementation of ICD-10 in October codes for SDOH increased significantly among prissouri nospitals since the implementation of ICD-10 in October 2015. Second, despite the increased use and associated benefits for patients and providers, a comparison of rates of SDOH code assignment to rates of poverty and payer mix suggested ample room for improvement in the consistent application of the codes by hospitals. At the same time, despite inconsistencies in the use of SDOH codes, bivariate application of the codes by hospitals. At the same time, despite inconsistencies in the use of SDOH codes, divariate and multivariate testing revealed that the Z codes have exceptional predictive ability in health outcomes modeling.

To improve the consistent use of the codes at Missouri hospitals, this follow-up study explores both patient and proto improve the consistent use of the codes at Missouri hospitats, this follow-up study explores outh patient and provider characteristics that contribute to the likelihood of identification and capture of ICD-10 SDOH Z codes during an inpatient hospitalization or emergency department visit.

Source: January 2020 - Z Codes for Social Determinants of Health

Integrating Social Determinants of Health into Care Delivery



such as diabetes, compared to non-Hispanic whites."

Source: https://web.mhanet.com/quality-andhealth-improvement.aspx

Connecting the Dots Using the exploreMOhealth Platform

exploreMOhealth Platform



New data released in spring 2020! Learn more ▼



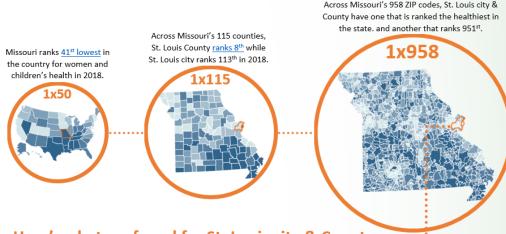


Magnifying Community Health in Missouri

Learn about exploreMOhealth.org during National Public Health Week.

The places where we live, learn, work, worship and play have a profound influence on our health. To improve population health, stakeholders must identify the influence of geography on health factors through meaningful community health data. Many believe that your ZIP code is a more powerful predictor of health than your genetic code.

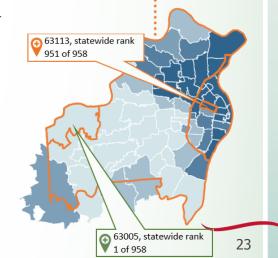
- Launched March 21, 2018
- Designed to inform Community Health Needs Assessments with unique and meaningful data sources:
 - County-level data from Missouri Foundation for Health's County-Level Study
 - ZIP Code-level data from Hospital Industry Data Institute and Washington University School of Medicine's Missouri ZIP Health Rankings Project
 - Open to public

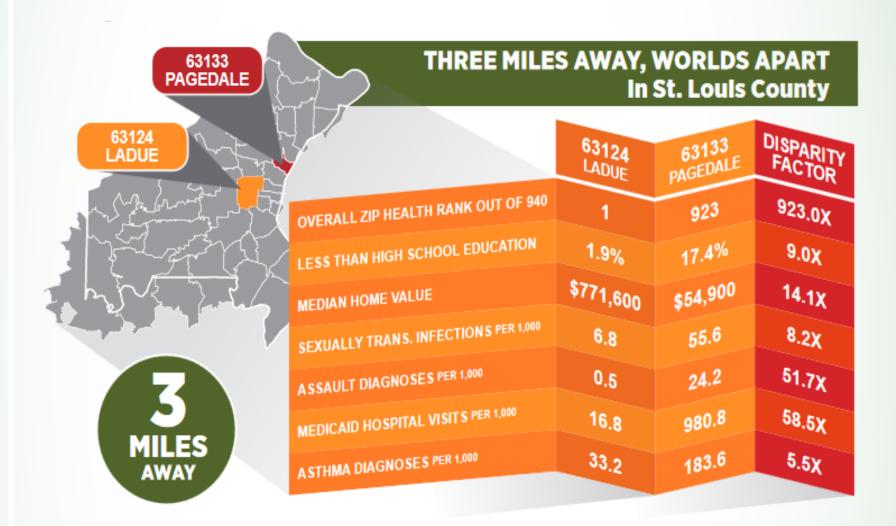


Here's what we found for St. Louis city & County:

Separated by only 17 miles, 63005 in the St. Louis suburb of Chesterfield and 63113 in North city are worlds apart on health. Here are a few of the factors driving these differences:

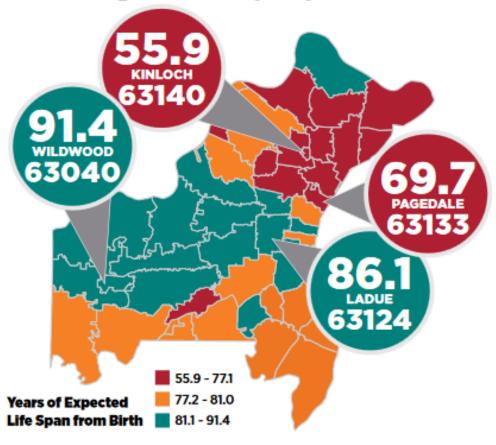
	63113 (951 of 958)	63005 (1 of 958)	Disparity Factor
Household			
Income	\$24,430	\$158,560	6.5x
Smoking per			
1,000	463.8	50.3	9.2x
Obesity per			
1,000	86.0	17.6	4.9x
Substance Use			
Disorder per 1,000	18.8	3.2	5.9x
Teen Pregnancy			
per 1,000	83.6	0.35	239x
Diabetes Diagnosis			
per 1,000	266.4	75.5	3.5x
ER Visits per 1,000	971.7	244.0	4.0x



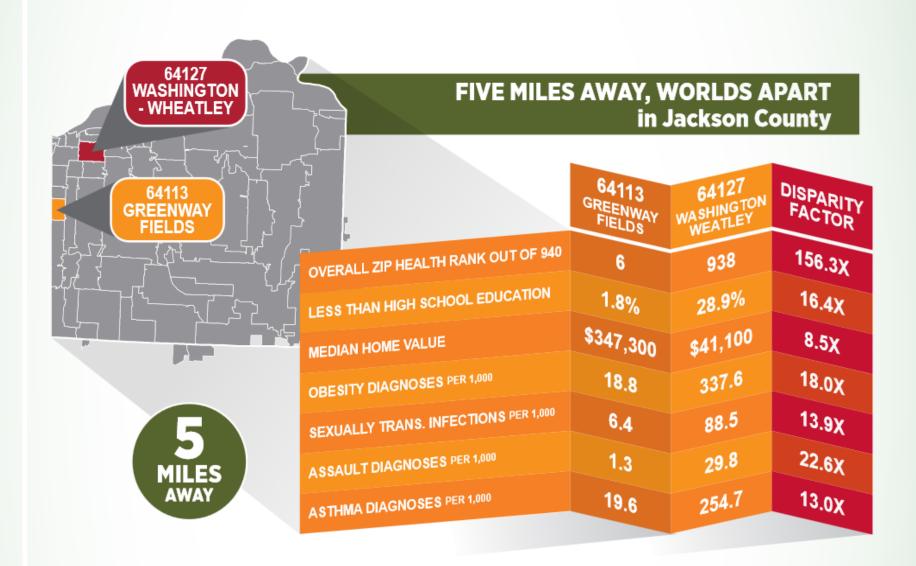


Source: exploreMOhealth, 2019

St. Louis County Life Expectancy By ZIP Code



Source: 2010 Decennial Census, U.S. Census Bureau; 2010 MICA, Missouri Dept. of Health & Senior Services; Centers for Disease Control and Prevention; Methodolody Adapted from For the Sake of All (http://forethesakeofall.org/).



Source: exploreMOhealth, 2019

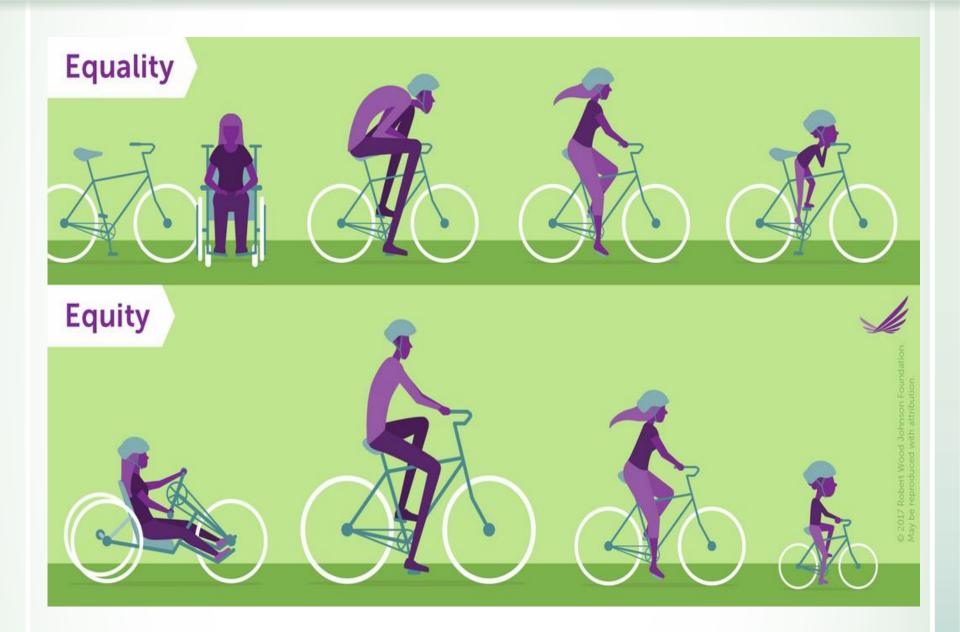
Social Referral Platforms

Social Referral Platforms

- Aunt Bertha
- CharityTracker
- First Call Technology
- Healthify
- Signify Community
- CrossTX



Health Equity



Source: Robert Wood Johnson Foundation



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