



Untangling the Safety-Net:

Advancing Health Equity through Housing-Health Partnerships

Sarah A. Stella, MD

Associate Professor of Medicine

Department of Medicine, Division of Hospital Medicine

Denver Health

University of Colorado School of Medicine

Learning Objectives

- Discuss root causes and systemic drivers of homelessness
- Understand the impact of homelessness on health outcomes and the evidence for supportive housing as a health intervention
- Describe opportunities for improving health through cross-sector partnerships

All photos, stories and quotes shared with permission from community partners. Names and details of cases changed to protect confidentiality.

Carla's Story: A Tangled Safety Net

- 45 y.o. F with PMH of HTN, obesity and umbilical hernia
- Relocated to Denver and working as pastry chef
- Prolonged hospitalization for complications of incarcerated hernia, sepsis, multiple surgeries
- No income, evicted
- Discharged from Denver-area hospital to shelter
- Newly homeless on streets and in shelters



"They had 3 months to find me some place to go. There is no reason why I should have been on the street with my belly cut from here to here and all this stuff. You know? And a huge open wound."

Definitions

- Homeless Person: "someone who lacks a fixed, regular, and adequate nighttime residence and who lives in a shelter, or a place not designed for human habitation" (McKinney Homeless Assistance Act)
- Expanded to include: "people at imminent risk of housing loss within the next two weeks and people fleeing from domestic violence with inadequate resources to obtain other permanent housing" (Homelessness Emergency Assistance and Rapid Transition to Housing (HEARTH) Act)
- A "chronically homeless" person is defined by the US Department of Housing and Urban Development (HUD) as "an individual with a disabling condition who has been either continuously homeless for at least one year or homeless at least four times in the past three years"
- "Housing insecurity" encompasses literal homelessness and a broad range of unstable housing situations



Denominating the Homeless population

United States:

- 500,000+ people experienced literal homelessness on a single night in Jan 2020
- 2018 HUD AHAR- 1.4 Million people HMIS sheltered count vs. 500k+ PIT estimates

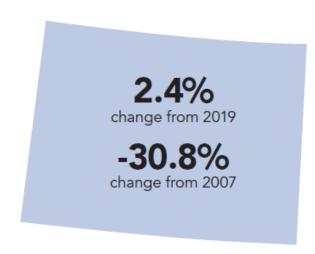
Colorado:

- 9846 people experienced literal homelessness on a single night in January 2020 (PIT)
- 23,000+ students identified as experiencing homelessness, doubled up or unstably housed in 2018-2019 school year
- 53,000 + individuals covered by CO
 Medicaid were without stable housing in 2019

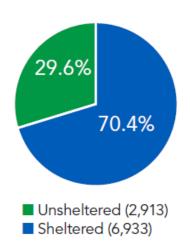


Point in Time Data

COLORADO



17.1 in every 10,000 people were experiencing homelessness



Total Homeless, 2020 **9,846**

Estimates of Homelessness

7,579 individuals

2,267 people in families with children

562 unaccompanied homeless youth

1,044 veterans

2,834 chronically homeless individuals

Metro Denver 2020

By The Numbers



Total Count

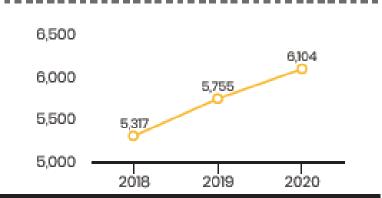
6,104



<u>Data</u>

Provided by MDHI Point-in-Time Survey conducted January 27th, 2020. For more information visit here.

Number of Literally Homeless



Where People Stayed

Populations

<u>Veterans</u>

278

627 People self-reporting service in the U.S. Military

Families

Households with at least one adult and one child under 18 years old; there were a total of 1446 people in these households



Unaccompanied Youth

Persons under age 25 who are not accompanied by a parent or guardian and are not a parenting youth



Fleeing Domestic Violence

759 People actively fleeing a situation of domestic or interpersonal violence



1561 Unsheltered

2911 Emergency Shelter

Emergency Shelter Beds Available

* of those 3561 beds, 264 beds are for Severe Weather Shelter only

* motel vouchers counted as ES but not available capacity in the HIC

1582 Transitional Housing

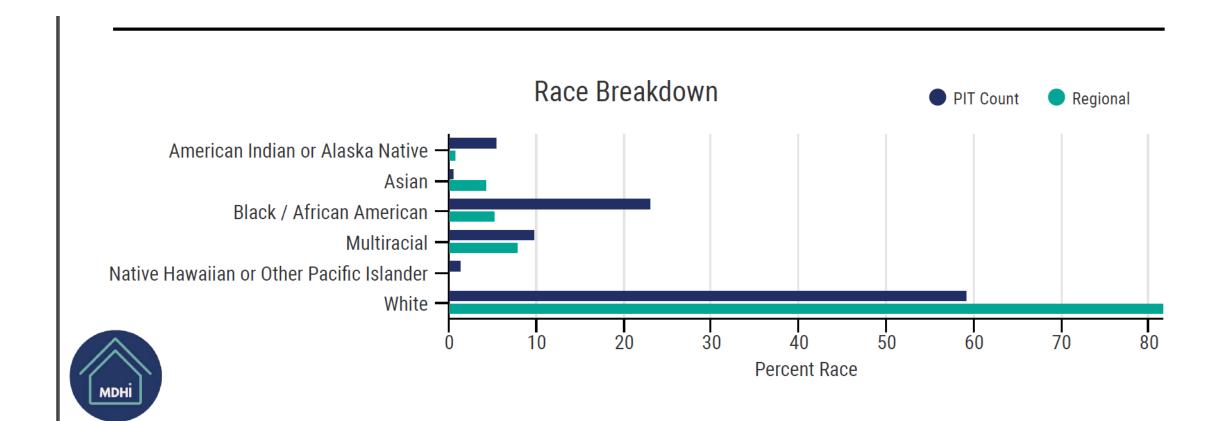
Transitional Housing Beds Available

3561



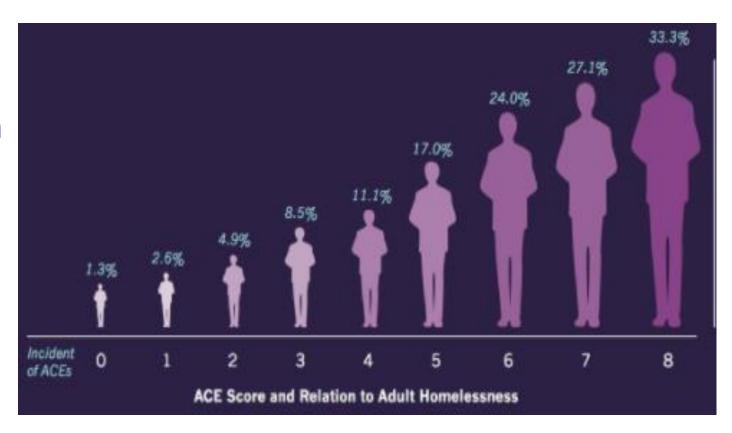


PEH are disproportionately BIPOC



Situational Barriers to Housing Stability

- Unexpected medical expenses
- Physical and mental health disabilities
- Job and wage loss
- Substance Use
- Eviction
- Trauma and violence



A Wicked Problem

Generational poverty

Systemic/institutional racism

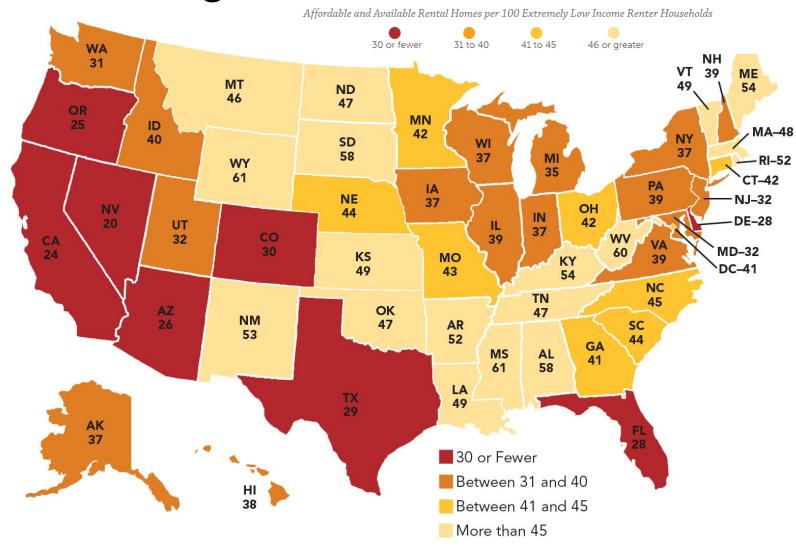
Criminal legal system

Limited job opportunities

Jobs lacking living wages

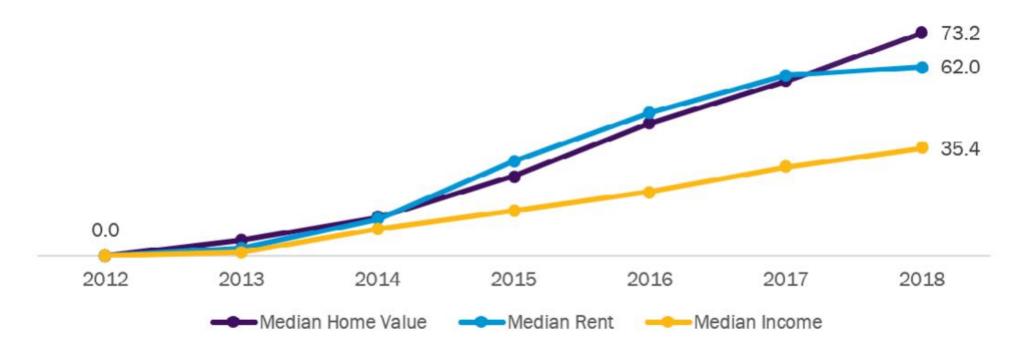
Affordable housing shortage

The Gap: A Shortage of Affordable Homes



Note: Extremely low income (ELI) renter households have incomes at or below the poverty level or 30% of the area median income. Source: NLIHC tabulations of 2019 ACS PUMS Data.

Percent Increase in Median Home Value, Rent and Median Income, Denver



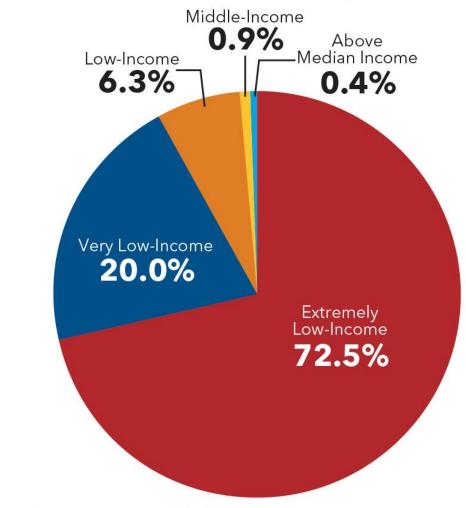
Source: <u>U.S. Census Bureau</u>, American Community Survey 1-year estimates, 2012-2018. Note: Data are for Denver County.

BIPOC renters are disproportionately cost-burdened

20% of Black households 18% of AI/AN households 14% Latino households vs.

6% White households

FIGURE 6: SEVERELY HOUSING COST-BURDENED RENTERS BY INCOME, 2019



Source: NLIHC tabulations of 2019 ACS

Homelessness and Health Inequities

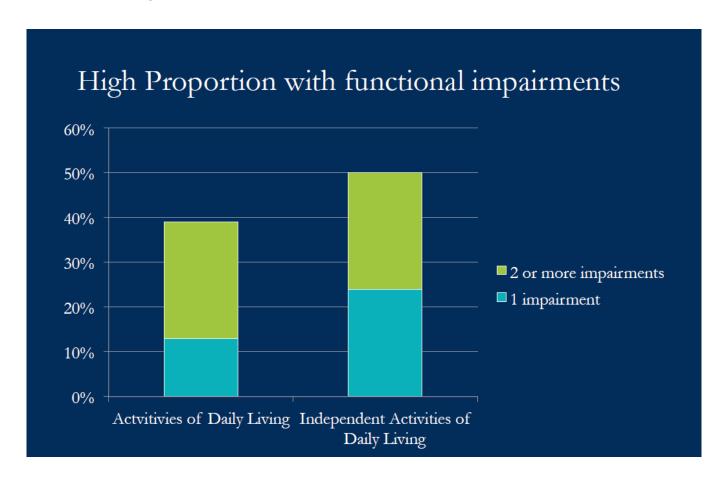
- Large burden of both acute and chronic disease
- High rates of mental health and SUD conditions
- Infections- HIV, HCV, TB, COVID-19 and others
- Environmental exposure
- Increased Mortality
 - Risk of death 2 to 5 times higher than general population
 - attributable to infections, chronic heart disease,
 SUD and unintentional injuries
- Decreased life expectancy
 - Chronically homeless PEH have a median life expectancy that is nearly 30 years shorter than the average U.S. life



Fazel S, Geddes JR, Kushel M.Lancet 2014 Baggett TP et al. JAMA Intern Med. 2013

Aging of the Homeless Population

- Brown et al studied 350 homeless adults aged 50+ in a variety of living environments
- Geriatric conditions were common, and the prevalence of these conditions was higher than that seen in housed adults 20 years older.
 - Almost 40% had difficulty performing ADLs
 - 33% reported any falls in the past6 months
 - 26% had cognitive impairment
 - 45% had vision impairment
 - 48% had incontinence.



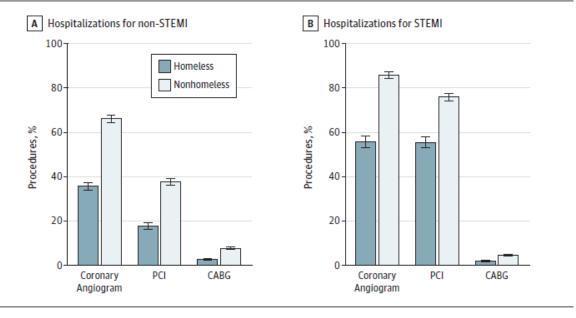
Brown RT et al. Geriatric Conditions in a Population-Based Sample of Older Homeless Adults.

Gerontologist. 2017 Aug 1;57(4):757-766.

Healthcare Utilization Patterns and Care Disparities in PEH

- Decreased utilization of primary care
- Higher ED and hospital utilization and costs
 - Longer Length of Stay
 - More 30-day readmissions
- Higher inpatient mortality and disparities in-hospital care disparities

Figure 3. Risk-Standardized Diagnostic and Therapeutic Procedure Rates for Homeless and Nonhomeless Adults Hospitalized for Non-ST-Elevation Myocardial Infarction (non-STEMI) and ST-Elevation Myocardial Infarction (STEMI)



Wadhera RK et al. JAMA Int Med, 2020

PEH = Triple the Risk of hospitalization

COVID-19 Hospitalizations Among PEH Compared to the General Population

Percent of Cases in PEH (out of all COVID19 cases)

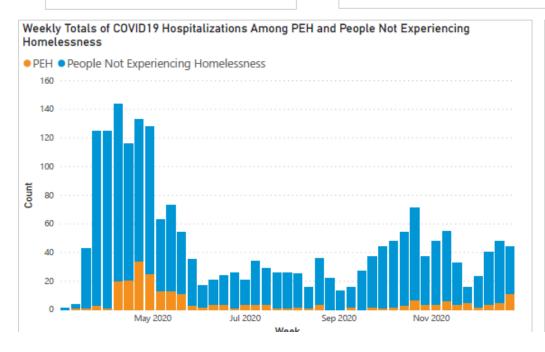
2%

Percent of cases in PEH that have been hospitalized (out of all cases in PEH)

28%

Percent of cases not in PEH that have been hospitalized (out of all cases in people not experiencing homelessness)

9%



Take Aways

- Out of all COVID19 cases, 2% are in the population experiencing homelessness.
- Out of all cases in PEH, 28% have been hospitalized, compared with 9% of cases hospitalized in the general population.

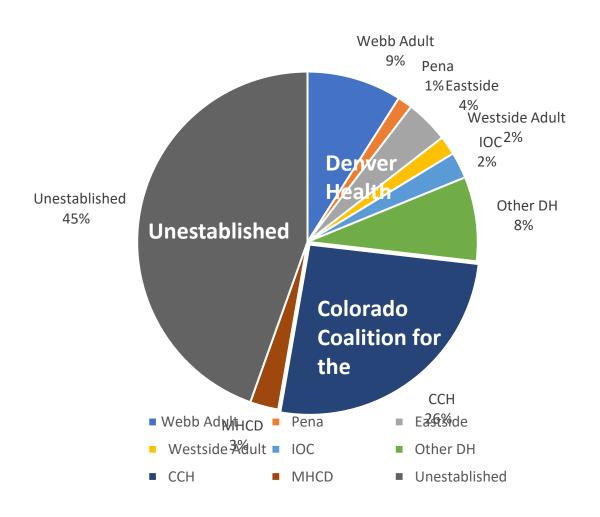
Data Source: Denver Health and Hospital Authority RedCap database





Partnership Beyond the Hospital Walls

- Establish community-academic partnership
- Funding from CCTSI to establish a community-academic partnership to:
 - Better understand community needs and priorities related to hospital care and care transitions
 - Develop a shared vision for meaningful improvement





Themes from the CAP

Trauma experienced through homelessness and through emergency and hospital care is pervasive

Substantial gaps in care and a lack of integration and coordination of care transitions

Social isolation and limited support during hospitalization and after discharge contribute to poor health outcomes

Hospitalization is a missed opportunity for interventions to address vulnerability









2018

CAP identified opportunities and priorities to improve care

Formal partnership to improve clinical care and data sharing



2020

Center for Healthcare Strategies Rising Risk Group

Home to Health Medicaid Housing PilotCOVID-19- Denver Joint Task Force



LEAN Strategic Planning: Housing and Specialty Care

Transitions of Care and Respite partnership launched

Joint funded research- RWJF

EHR Interoperability/Care Transitions Partnership

SIPPRA Housing Project

2021

2019

Carla's Story: Foundation for Health

- Multiple rehospitalizations
- Case Manager at Colorado Coalition
- Medicaid and disability
- Housed through scatteredsite voucher program
- Engages in SUD treatment

"Clean and sober we have a lot of emotions that you have to deal with... And when you are high you don't do emotions. So once you come off, you get bombarded. And it is overwhelming. And that makes you realize how you now can feel now. But that also causes more trauma...".

Housing Funding Streams

HUD

Office of Community
Planning and
Development

Office of Indian and Public Housing

Continuums of Care (CoCs)

Regional planning bodies coordinate the disbursement of funds for homeless programs

4 CoCs in CO

Public Housing Authorities (PHAs)

Administer Section 8
Housing Choice Voucher
Program, some operate
Public Housing

 Colorado has local and State Local Funds- City and State

City of Denver

 2B Funds administered by HOST, funded through sales and uses taxes

State via Division of Local Affairs (DOLA)

 State Housing Voucher Program funded by Marijuana tax revenue

Impact of Supportive Housing on Housing Stability

- Several RCTs have shown that PEH who are chronicallyill and receive PSH via Housing First model spend significantly fewer days homeless than those who receive usual care.
 - Pathways Housing First was compared to a treatment-first model among PEH with a dual mental health and substance abuse diagnosis in New York City. Housing First model proved superior; those randomized to PSH were housed sooner and spent more days in stable housing than those randomized to housing contingent on first achieving sobriety.
 - The Canadian At Home/Chez Soi study- those randomize to scattered site housing plus intensive CM spent 33-49% more days in stable housing (Steriopoulos et al. 2015)
 - RCT in Chicago- Chronically-ill PEH randomized to housing plus CM following recovery from hospitalization had 62 more days per year in stable housing (Basu et al, 2012).



Housing is necessary but not sufficient for health



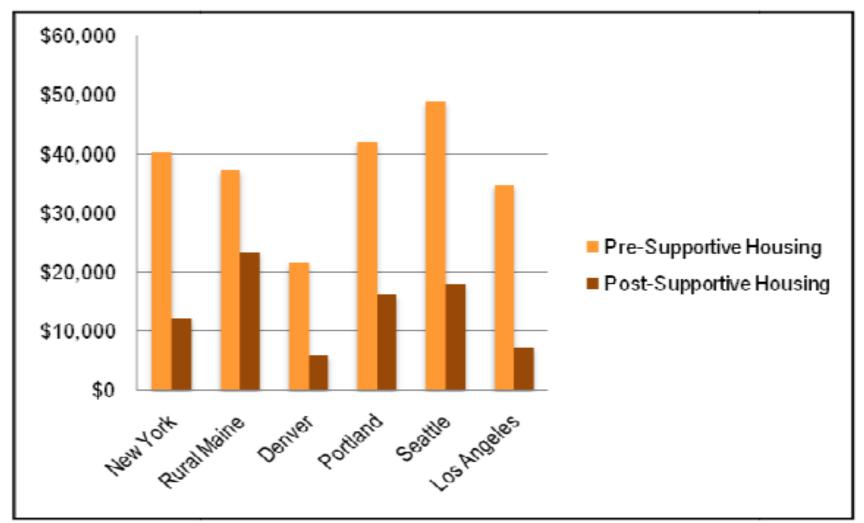
Provision of PSH reduces ED and hospitalizations and costs in high needs populations



PSH improves HIV outcomes, well-being and QOL from a variety of different measures and study designs.

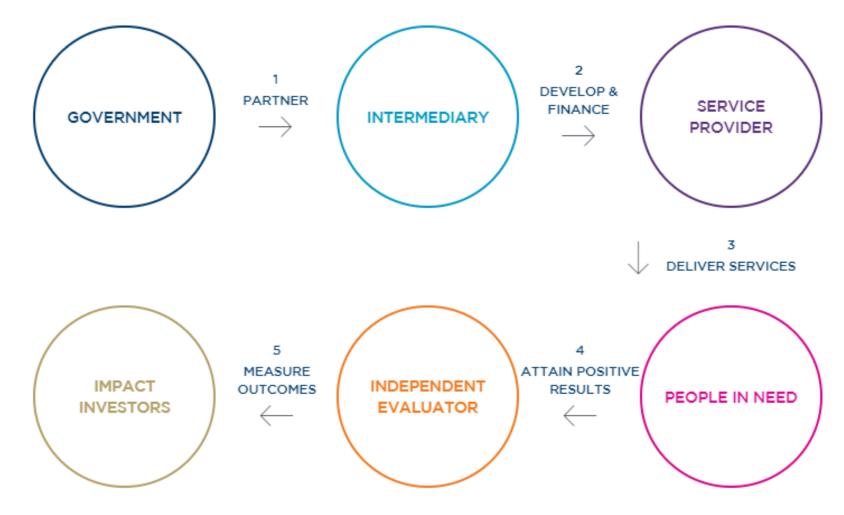
National Academy Press, 2018. Permanent Supportive Housing: Evaluating the Evidence for Improving Health Outcomes Among People Experiencing Chronic Homelessness (2018)

Impact of Supportive Housing Public Service



Per-Person Annualized Cost of Public Services Before and After Entering Supportive Housing

Social Impact Bonds: Pay for Success



Social Impact Bond (SIB) Financing: A
Pay for Success Strategy - Social Finance

Denver's Social Impact Bond (SIB)

Goals	Address the underlying causes of homelessness, including mental illness and SUD, reduce costs in the criminal justice and emergency health systems through housing and supportive case management services
Project Dates	2016-2021
Target Population	PEH who frequently use Denver's emergency services in police, jail, the courts and EDs (250 of which cost \$7 million per year)
Outcomes Funding	\$8.6 initial investment across 8 investors; \$11.4M max repayment
Outcome Payor	City of Denver
PFS Funding Use	Services, limited housing related costs
Service Model	Modified Assertive Community Treatment (ACT)
Evaluation	RCT led by Urban Institute, paid for by City of Denver
Success metrics	Stable housing + jail day reduction

When people experiencing homelessness were offered housing, most took it and stayed long term

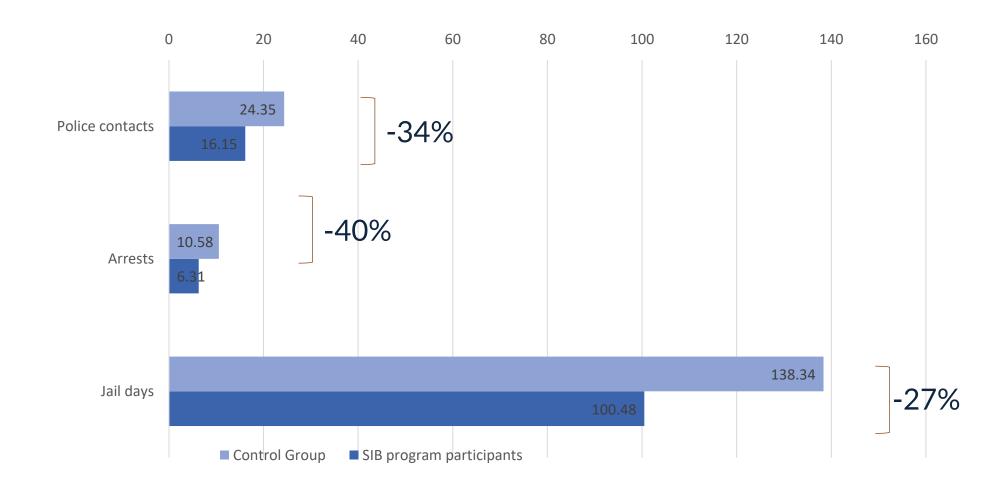




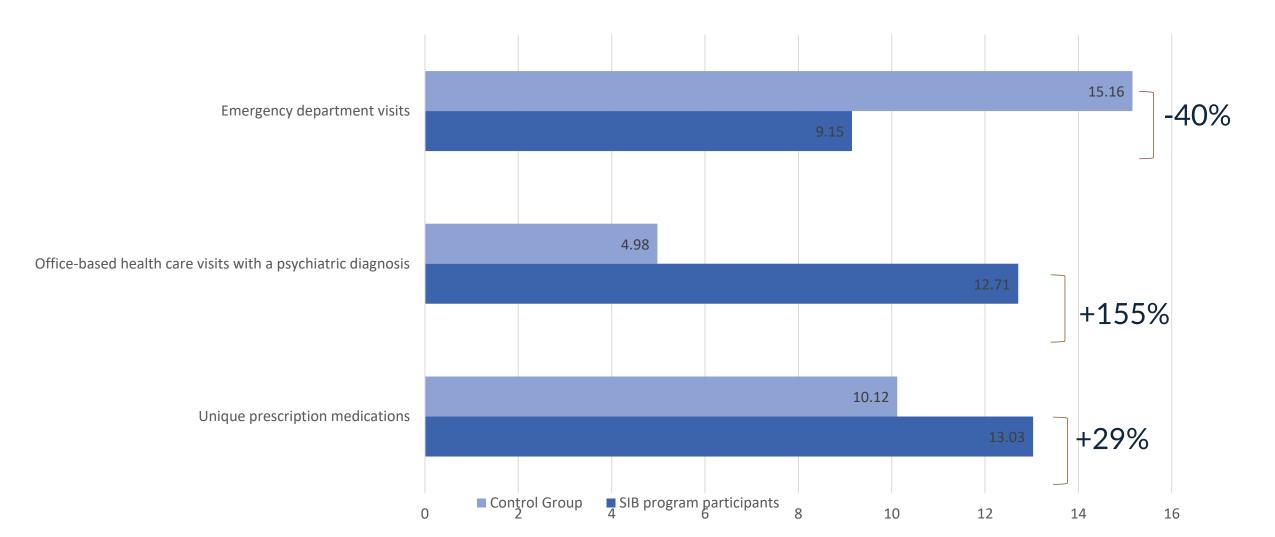




After three years in the supportive housing program, 77 percent stable housing People in supportive housing had **fewer** interactions with the criminal justice system than people receiving usual services.



People in supportive housing used less emergency health care and received more office-based care than people receiving usual services



Social Impact Partnership to Pay for Results Act (SIPPRA)

U.S. Department of the Treasury

Office of Public Affairs

Press Release: FOR IMMEDIATE RELEASE

September 14, 2021

Contact: John Rizzo; Press@Treasury.gov

Treasury Announces Social Impact Partnership to Pay for Results Act (SIPPRA) Project Grant for City and County of Denver, Colorado

WASHINGTON — The U.S. Department of the Treasury announced that it has offered the City and County of Denver, Colorado (Denver) a Social Impact Partnership to Pay for Results Act (SIPPRA) Project grant in the amount of \$5,512,000 and a SIPPRA Independent Evaluator grant in the amount of \$826,800 for its Housing to Health (H2H) program, a permanent supportive housing program designed to reduce homelessness and increase housing stability. Once the grants are accepted by Denver through its legislative and executive process, Denver will be the second entity awarded funding under the SIPPRA program. Denver expects to present the offered SIPPRA grants to the City Council in early October.

Leveraging Medicaid to fund supportive housing initiatives

- A large proportion of PEH have Medicaid
- States are experimenting that PSH for people with complex medical needs can improve individual and population health while reducing costs through a number of policy mechanisms
 - Home and Community-based Services (HCBS) authorities, Section 1915 waivers
 - Sections 115 Waivers- gives states authority to test new strategies
 - Section 1945 Health Home State Plan Amendments
 - Managed Care Programs

https://www.medicaid.gov/federal-policy-guidance/downloads/sho21001.pdf

Corporation for Supportive Housing Policy Brief: Medicaid & Housing Services, August 2021

What types of Housing Related Services can be funded by Medicaid?

Pre-tenancy Services

- tenant screening/assessment to identify preferences and barriers related to successful tenancy
- housing application assistance and housing search
- ensuring that housing units are safe and move-in ready
- assisting in arranging for and supporting move-in (e.g., transportation and moving expenses).

Tenancy sustaining services

- identifying and addressing behaviors that may jeopardize housing (e.g., lease violations)
- education on the role, rights, and responsibilities of the tenant and landlord
- individualized case management and care coordination



https://www.medicaid.gov/federal-policy-guidance/downloads/sho21001.pdf







Housing Pilot: Building on Partnerships





Supportive Services Provider: Coalition for the Homeless Funding for Supportive Services: Medicaid

- Describe and better understand the health and social needs of unhoused Medicaid members at risk for poor health outcomes and avoidable healthcare utilization
- Gather preliminary data on the feasibility and scalability of the pilot approach to inform broader Medicaid policy discussions
- Gain experience with stakeholder engagement and patient-centered measurements to inform future larger scale evaluations





- Necessity of adapting methods for collaboration, clarification, and integration between departments/teams/agencies
- Addressing barriers to data sharing in larger-scale evaluation
- Need for levels of care within Housing First with services delivered based on client need→ Project HOPE

Colorado Medicaid Demonstration Project

 With ARPA funding HCPF will operationalize funding for supportive housing for 500 PEH with serious mental illness



The Role of Hospitals and Health Systems in Housing

Opinion



Investing in Housing for Health Improves Both Mission and Margin

Megan Sandel, MD, MPH Department of Pediatrics, Boston Medical Center, Boston, Massachusetts.

Matthew Desmond, PhD Department of During the last 20 years, low-income families have had their incomes plateau or decline as their housing costs soared. Public aid has not been expanded to meet the growing need: only 1 in 4 households that qualify for housing assistance receives it. As a result, today most renting households below the federal poverty line spend more than half of their income on housing costs, and 1 in 4 spends more than 70% of its income on rent and utility costs alone ¹ Rent-burdened families not only have

Housing Is Similar to Drug Prescription

Recognizing residential insecurity as a cause of preventable hospitalization, some hospitals and health systems have developed permanent, supportive housing models to reduce health care utilization among chronically homeless people. The Camden Coalition of Healthcare Providers in New Jersey and the Hennepin County Health Center in Minnesota use housing vouchers to reduce health care costs; health care organiza-

Transitional Housing
Partnership with Denver
Housing Authority (DHA)

- 110 Senior Disabled Affordable housing
 - Denver Health will lease 14 SRO units for patients transitioning out of Denver Health hospital
 - On-site DH Case Manager will work with residential service coordinator
 - Goals to decrease avoidable LOS and decrease homelessness through connection to longer-term housing supports



Denver's COVID-19 Strategic Response in PEH



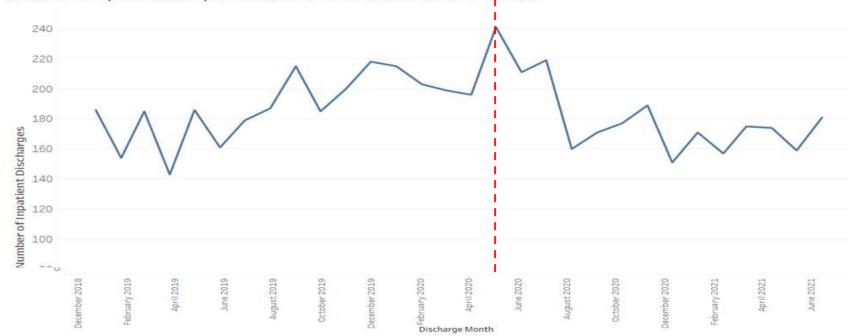


- Shelter de-densification and implementation of preventative measures
- Isolation and recuperative care for PEH 3,000 PEH with confirmed or suspected COVID-19
- Temporary housing for >1500 elderly medically vulnerable PEH
- Surveillance testing and outbreak mitigation in shelters and encampments
- Low-barrier vaccination and medical care
- Ongoing advocacy for funding and resources

Non-Homeless Inpatient Hospitalizations Per Month at Denver Health



Homeless Inpatient Hospitalizations Per Month at Denver Health







Safe Outdoor Spaces





More at coloradovillagecollaborative.org/safe-outdoor-space



Carla's Story

• Raising her son and baking again!

Thank You

Thank you to all those individuals who are experiencing homelessness who have taught me so much and to the many community partners and agencies working to address health equity.

Questions?

sarah.stella@dhha.org