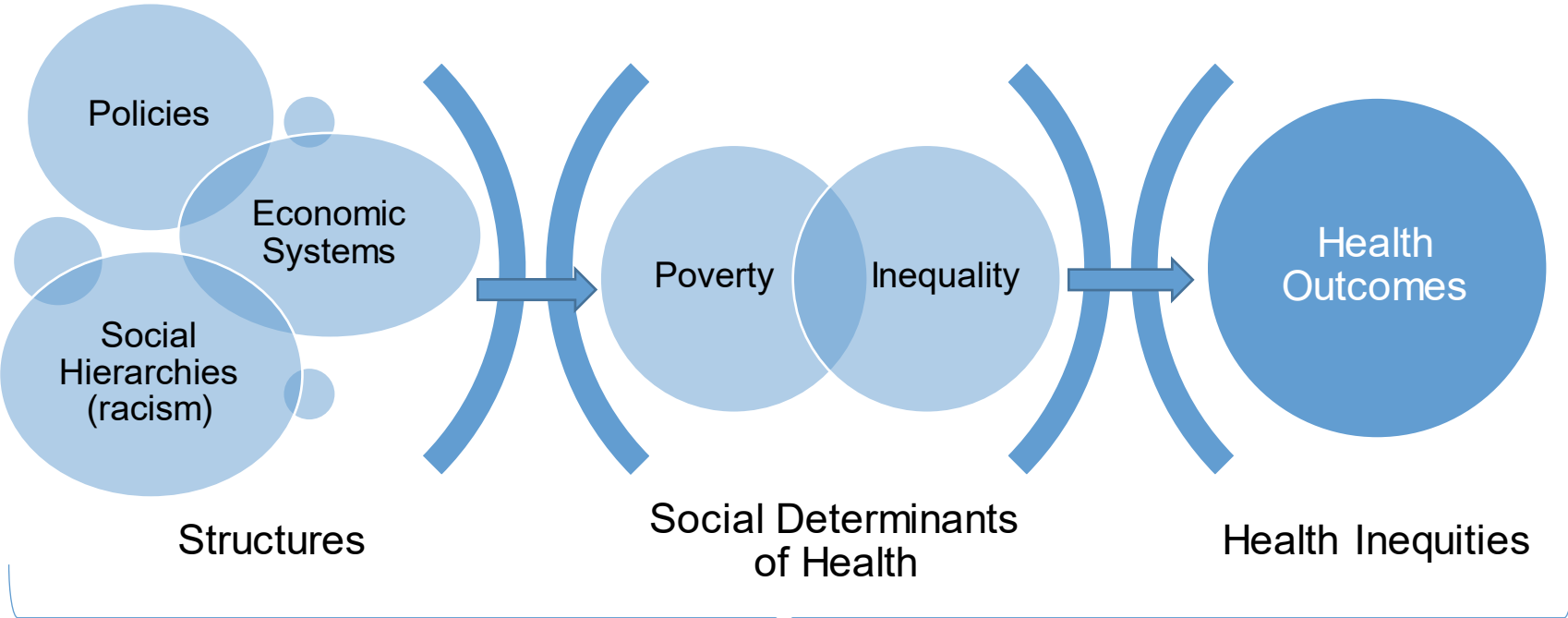


Roadmap

1. Structural Competency is part to Moving Upstream to Address Root Causes of Asthma Inequities
2. How are Disparities in Outcomes are Built
3. How Inequities in Outcomes are Driven by Social Determinants of Health
4. Structures create the Economic and Environmental Factors driving Inequities on Multiple Levels
5. How Healthcare can breakdown Structural Barriers

Structural Competency includes understanding Structures, Social Determinants of Health and Health Inequities

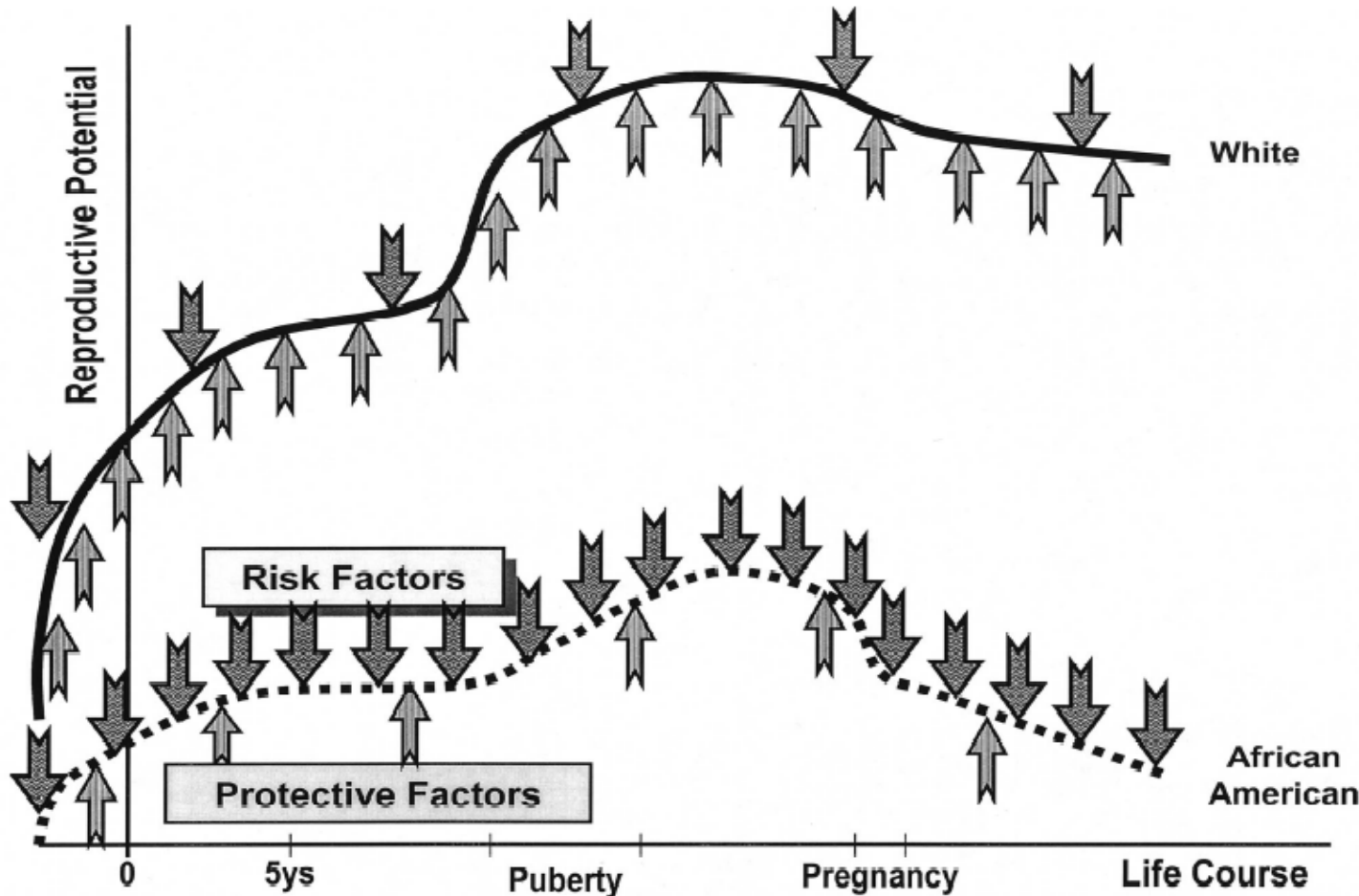


Metzl JM, Hansen H. 2014
Hansen, H et al 2017

Structural Competency

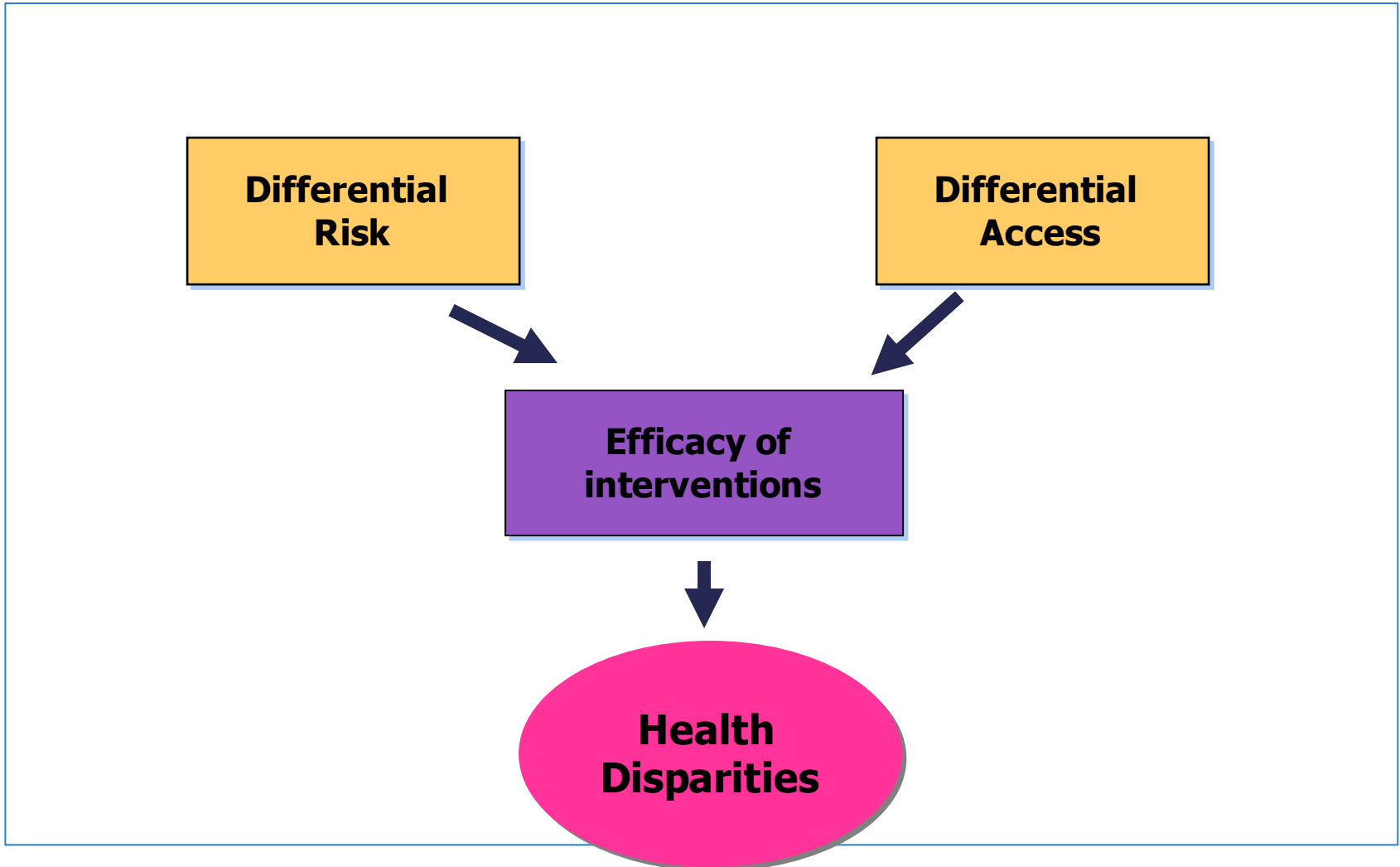


Life Course differs by Risk/ Protective Factors

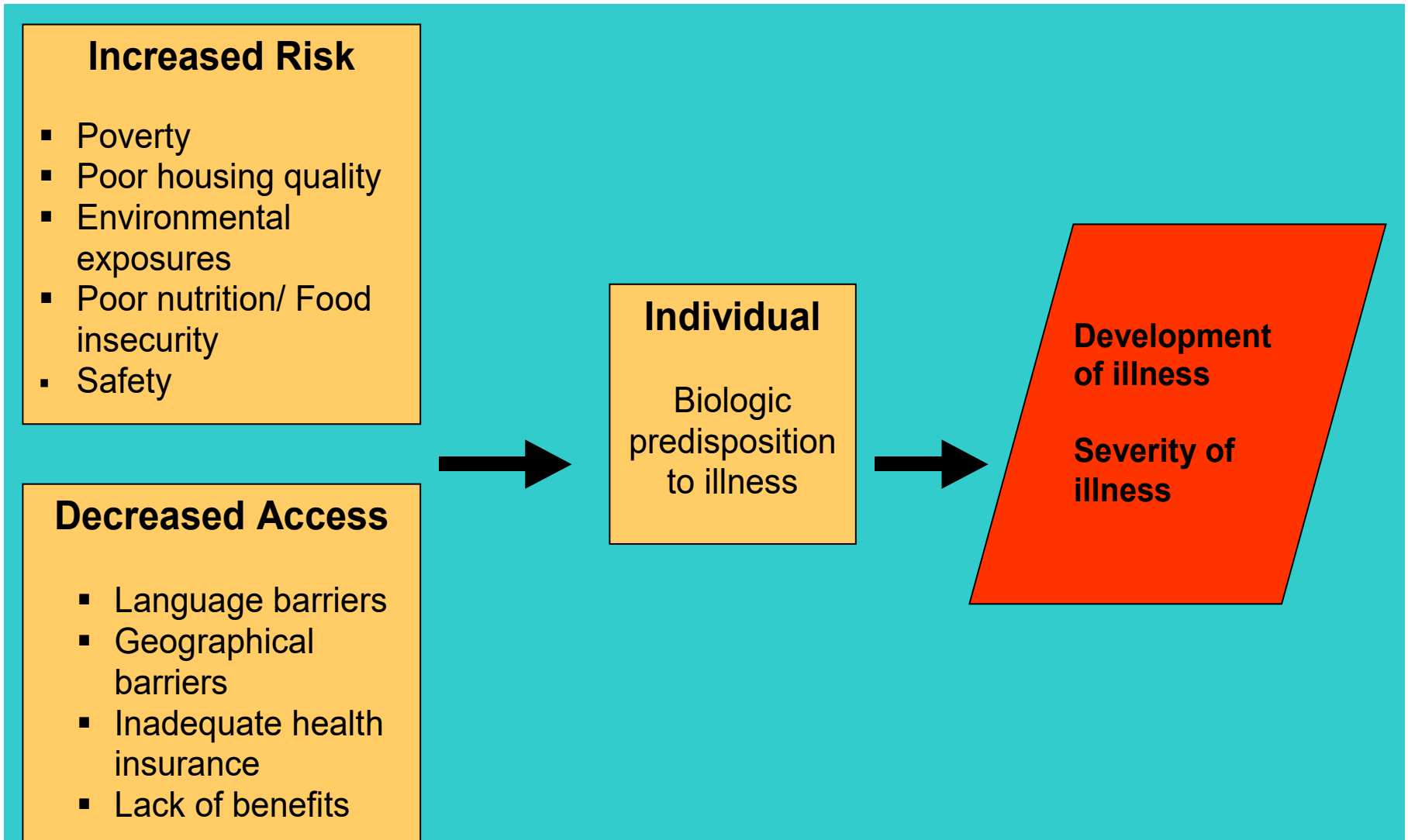


Source: Lu MC, Halfon N. Racial and ethnic disparities in birth outcomes: a life-course perspective. *Matern Child Health J.* 2003;7:13-30.

Risk, Access, Efficacy and Disparities

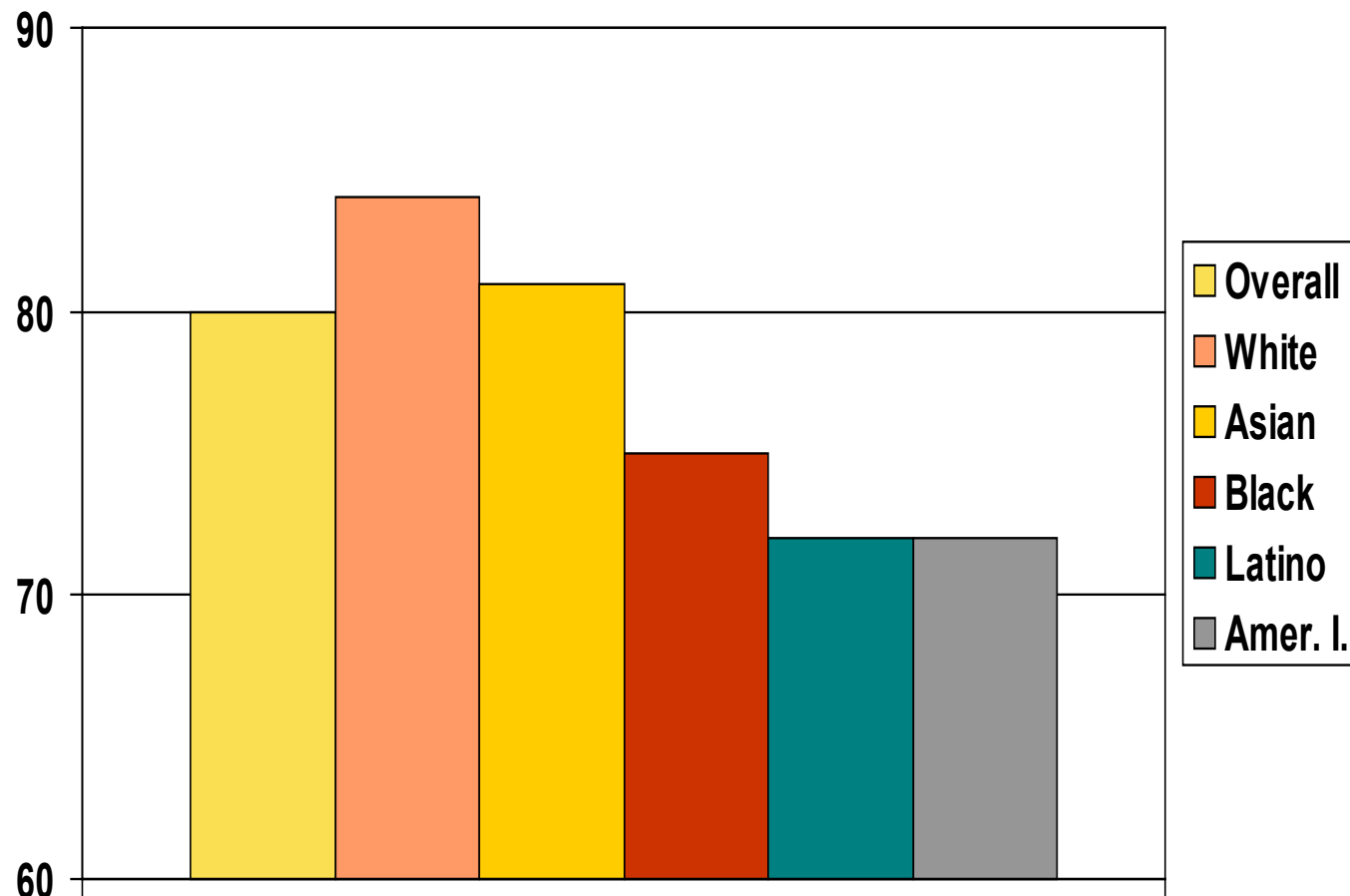


Social Risk Factors & Health Disparities



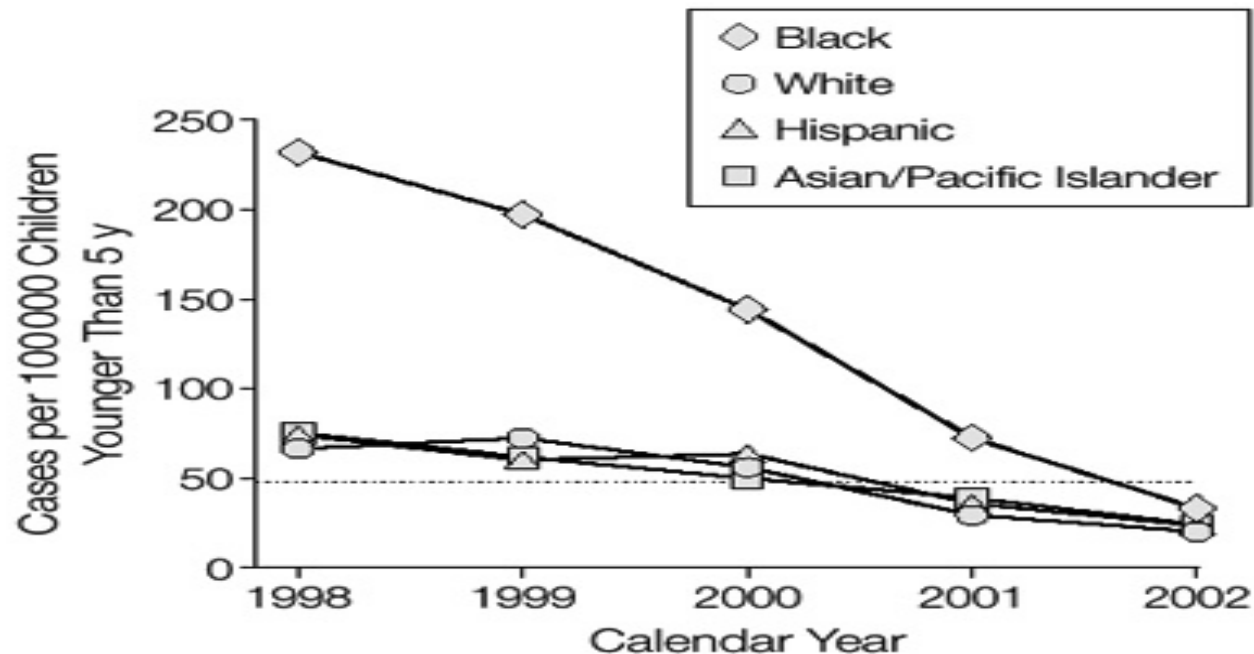
Childhood Acute Leukemia Survival Differ by Race

- Overall 5 yr survival 5% in 1950s
- > 80% now
- But differs significantly by Race



- Source: Kadan-Lottick, et al., JAMA Oct 2003

Declining rates of Invasive Pneumococcal Disease



Rates for racial categories include case-patients identified as Hispanic. Hispanic rates prior to 2000 are calculated using the 2000 US estimate as the denominator for each year of surveillance. Incidence rates for persons of Hispanic ethnicity represent all case-patients identified as Hispanic, regardless of race. Dotted line indicates *Healthy People 2010* target of 46 cases per 100000 children younger than 5 years.⁶

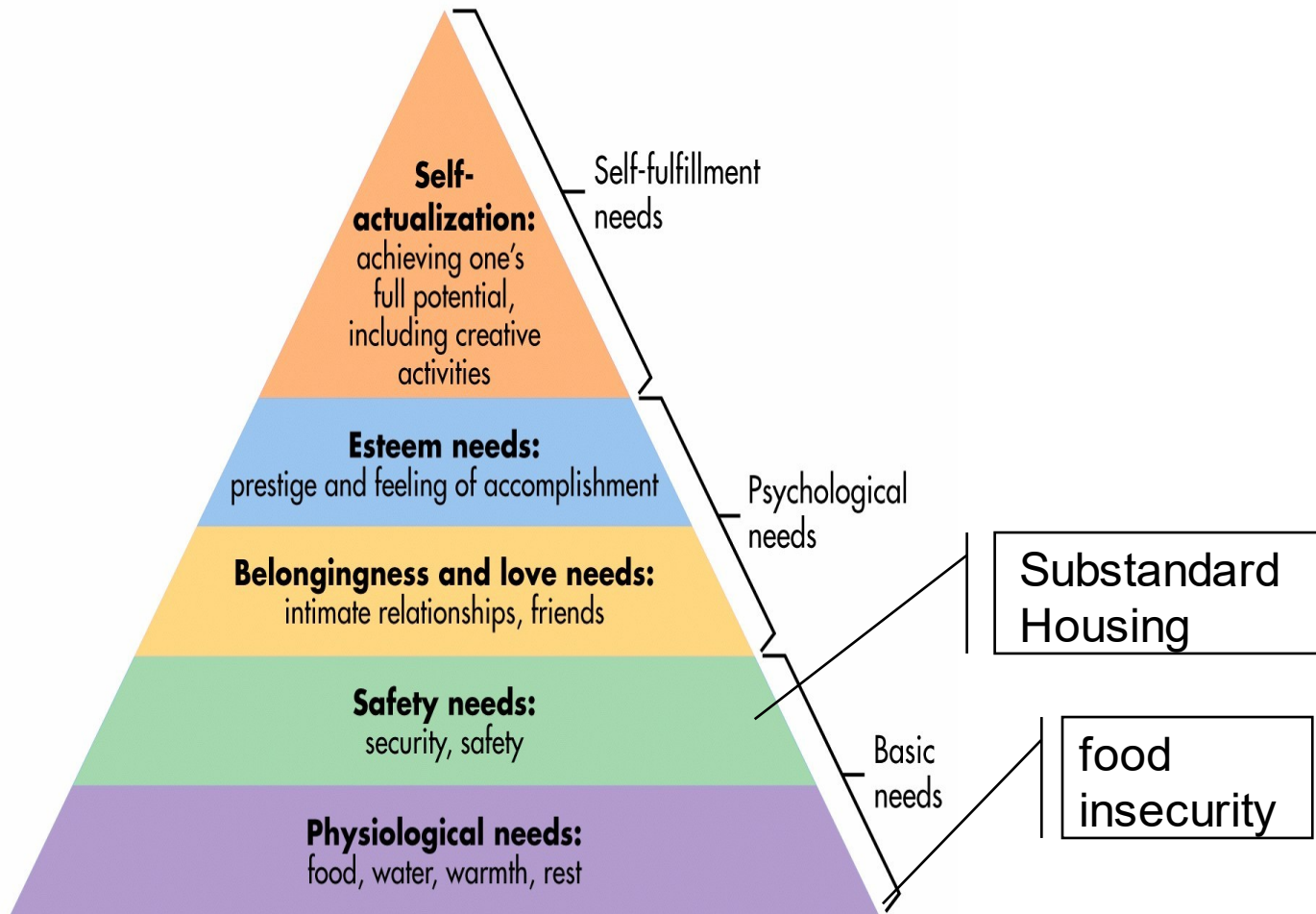
Flannery, et al,
JAMA, May 2004

Social Factors Drive Health Positively and Adversely



SDOH are the structural factors and conditions in which people are born, grow, live, work and age

Why Foundation of Positive Health Lies with Addressing Basic Needs



An interpretation of Maslow's Hierarchy of Needs

Dimensions of Housing and Health Research



Taylor, L. *Health Affairs*, 2018



Evidence on Home Quality

- Accidents/Injuries – exposed wiring, needed repairs
- Development and worsening asthma, allergies tied to home
 - Pests (cockroaches and mice)
 - Molds/Chronic Dampness
 - Tobacco smoke
- Lead exposure tied to long term effects
 - Developmental delay, Attention deficit
- Heat or eat

Skinner et al, 2014

Home Quality and Mental Health

MacArthur Foundation
HOW HOUSING MATTERS

macfound.org/HousingMatters

POLICY RESEARCH BRIEF

Poor Quality Housing Is Tied to Children's Emotional and Behavioral Problems

Parents' stress from living in poor quality housing takes a toll on children's mental health

by REBEKAH LEVINE COLEY, TAMA LEVINE, ALICIA DOYLE LYNCH, AND MELISSA R. HARRIS

SEPTEMBER 2013

A family's home is their haven, but for families living with leaking roofs and mold, it's not always a safe place. For those who have to choose between staying in their homes or finding a new one, the stress of finding rent or for food, or for finding a new place to live, can be overwhelming. Repeatedly move in search of his or more affordable housing, one's place of refuge can become a very homey.

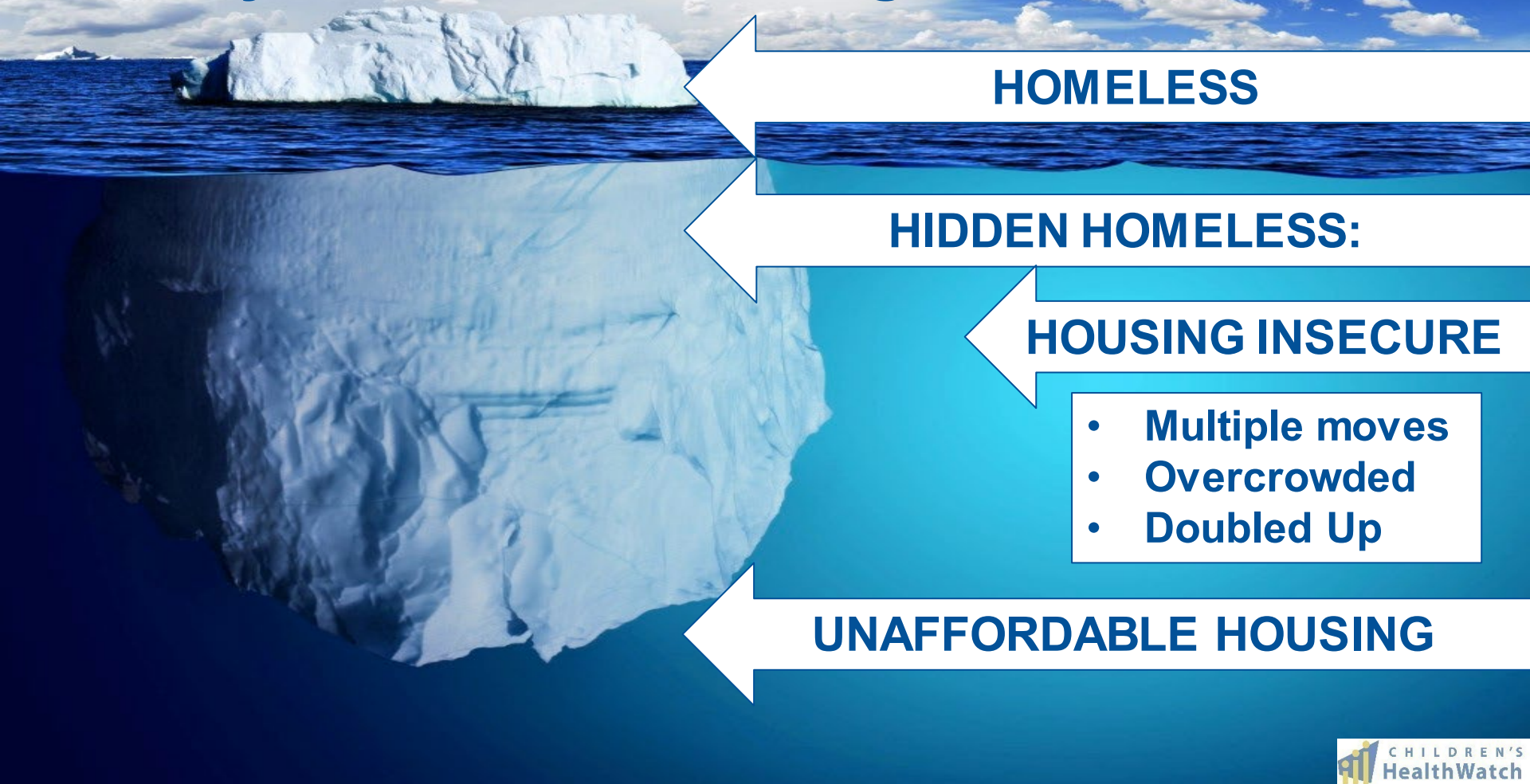
This brief examines how housing characteristics affect children and families' well-being.¹ Among the variables tested, poor housing quality was the most significant and strongest predictor of emotional and behavioral problems in low-income children and youth. It also had a strong association with school performance among children. Poor housing affected children because the stress of living in unhealthy and unsafe conditions affected parents' ability to care for their children.

Advantages of the Current Study

Past research has identified several aspects of housing that are thought to be associated with children's mental health.² Researchers, for example, have found that poor housing—exposed wiring, peeling lead paint, mold, and the like—may contribute to parental stress in children, inhibiting their emotional and behavioral learning. Similarly, residential instability may in-

- Poor housing quality strongest predictor of emotional and behavioral problems in low-income children
- Much of association between poor housing quality and children's wellbeing operates through parental stress, parenting behaviors and mental health

Stability: The Home Iceberg





CHILDREN'S Health Watch

Improving the health and development of young children by informing policies that address and alleviate economic hardships

CHILDREN THRIVE WHEN WE RESPOND TO THEIR REALITIES

Sign up and stay informed
Visit www.childrenshealthwatch.org

SINCE OUR LAUNCH IN 1998,

75K+ FAMILIES

We have interviewed more than 75,000 caregivers of young children under 4 years of age in pediatric emergency rooms and clinics



A nonpartisan network of pediatricians, public health researchers & policy experts, we bring data & analysis from the front lines of care in Boston, Baltimore, Philadelphia, Little Rock & Minneapolis

PEER REVIEWED JOURNAL ARTICLES

72+

Our researchers have made landmark contributions to the understanding of how public policies and economic hardships impact children's health



Leveraging the perspective of pediatricians, our research and advocacy has improved public policies (nutrition, housing, anti-poverty) and practices that give all children equal opportunities for healthy, successful lives

23 YEARS



105+ POLICY PUBLICATIONS

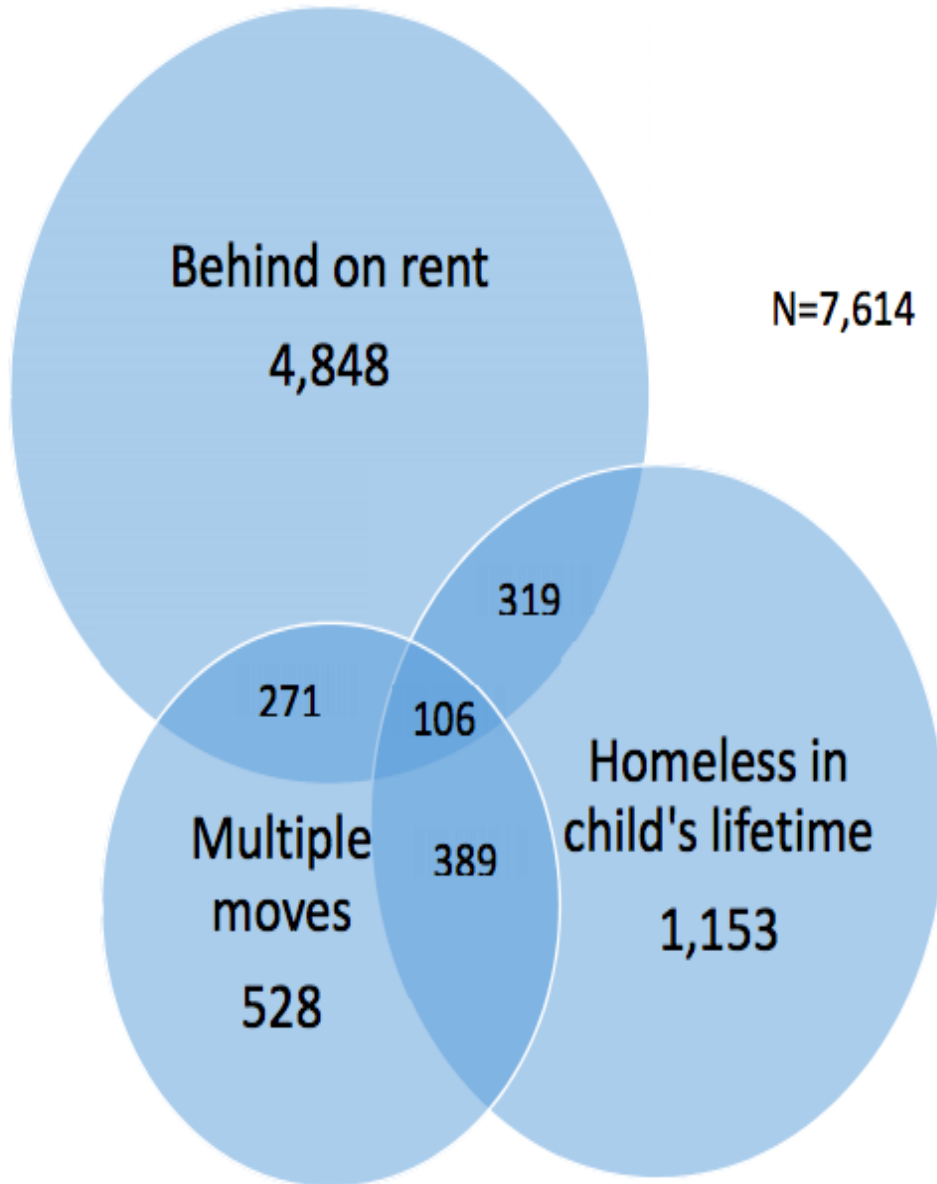
Our policy briefs and reports have helped national and state policymakers better understand the social and economic factors that impact children's health so they can make well-informed decisions



Exploring three forms of unstable housing with caregiver and child health

- Among 22,234 families, 34% had at least one adverse housing circumstance:
 - 27% behind on rent
 - 8% multiple moves
 - 12% history of homelessness
- Each circumstance individually associated with adverse health and material hardship compared to stable housing

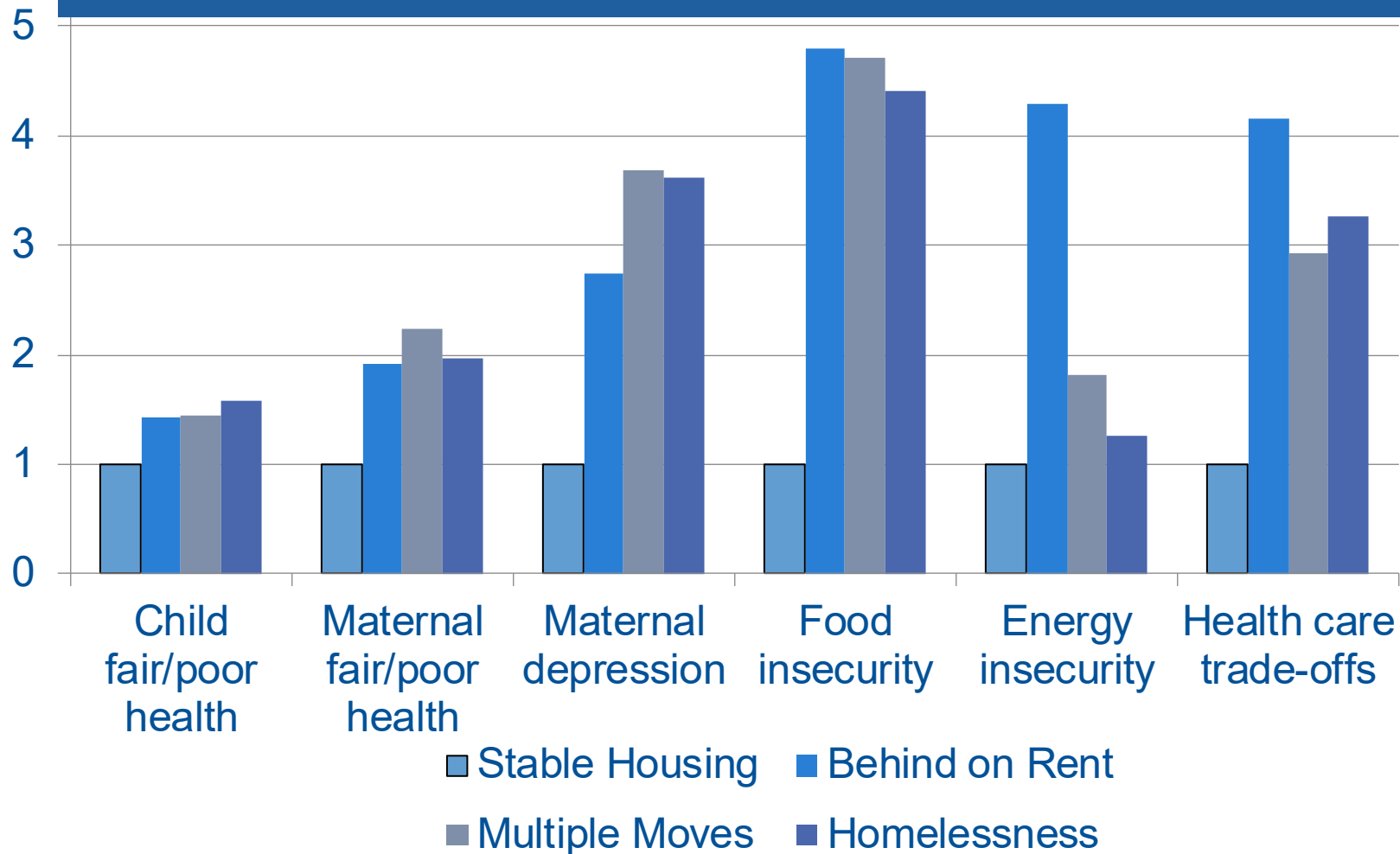
Number of adverse housing conditions



Little overlap among three adverse housing conditions

Most families were behind on rent and impacted health

Outcomes of unstable housing with health and material hardship outcomes



Neighborhood Segregation and Opportunity

Neighborhood child opportunity index (maps) for 100 largest metro areas



Compare and Analyze Data

Select a Tool to Start	Topics	What You Can Do
 PROFILES Create a custom profile for a selected location	Child Demographic & Wellbeing Indicators <ul style="list-style-type: none">• Demographics• Education• Economic• Health• Neighborhoods• Policy• And more...	<ul style="list-style-type: none">✓ Analyze data by race/ethnicity✓ Compare data across states, metropolitan areas, counties, large cities, and large school districts✓ Compare policy indicators across states
 RANKINGS Sort and rank data		
 MAPS Visualize your data geographically		
 CHILD OPPORTUNITY MAPS Map the geography of opportunity for children	Child Opportunity Index measuring neighborhood opportunities for children	<ul style="list-style-type: none">✓ Explore metropolitan area maps of the newly developed Child Opportunity Index
 POLICY/ANALYSIS Read policy equity analysis	Policy Analysis for key policies affecting child wellbeing and opportunities	<ul style="list-style-type: none">✓ Obtain equity analysis of social policies affecting children

Dedicated area of site for Child Opportunity Maps for 100 largest metro areas

Child Opportunity Index

diversitydatakids.org



KIRWAN INSTITUTE
for the Study of Race and Ethnicity

Educational Opportunity

- Student poverty rates in local schools
- School quality in local schools (student proficiency)
- **Early childhood education (ECE) indicators:**
 - Proximity to centers / high-quality centers
 - Participation patterns
- High school graduation rates
- Adult educational attainment

Health & Physical Environment

- Proximity to health facilities
- Retail healthy food environment
- Proximity to toxic waste and release sites
- Volume of nearby toxic release
- Proximity to parks and open spaces
- Housing vacancy rates

Neighborhood Social & Economic Opportunity

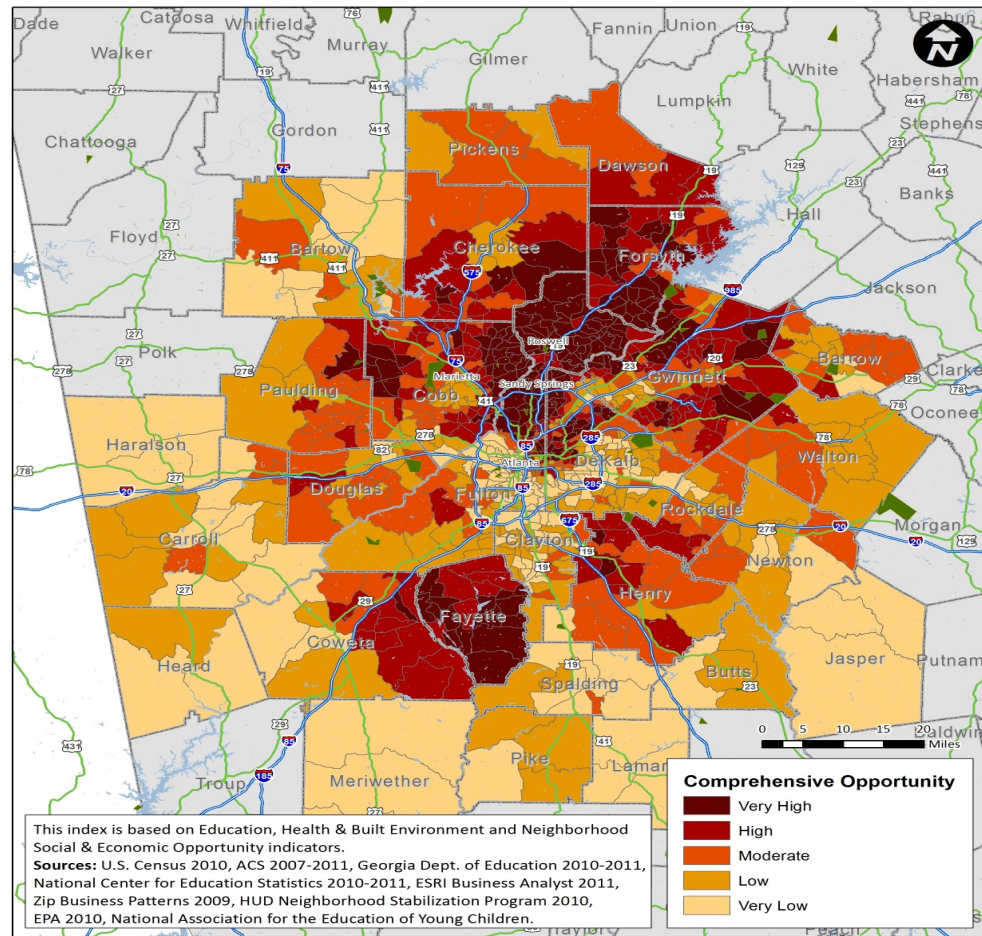
- Foreclosure rate
- Poverty rate
- Unemployment rate
- Public assistance rate
- Proximity to employment

Atlanta-Sandy Springs-Marietta, GA MSA Comprehensive Opportunity Map

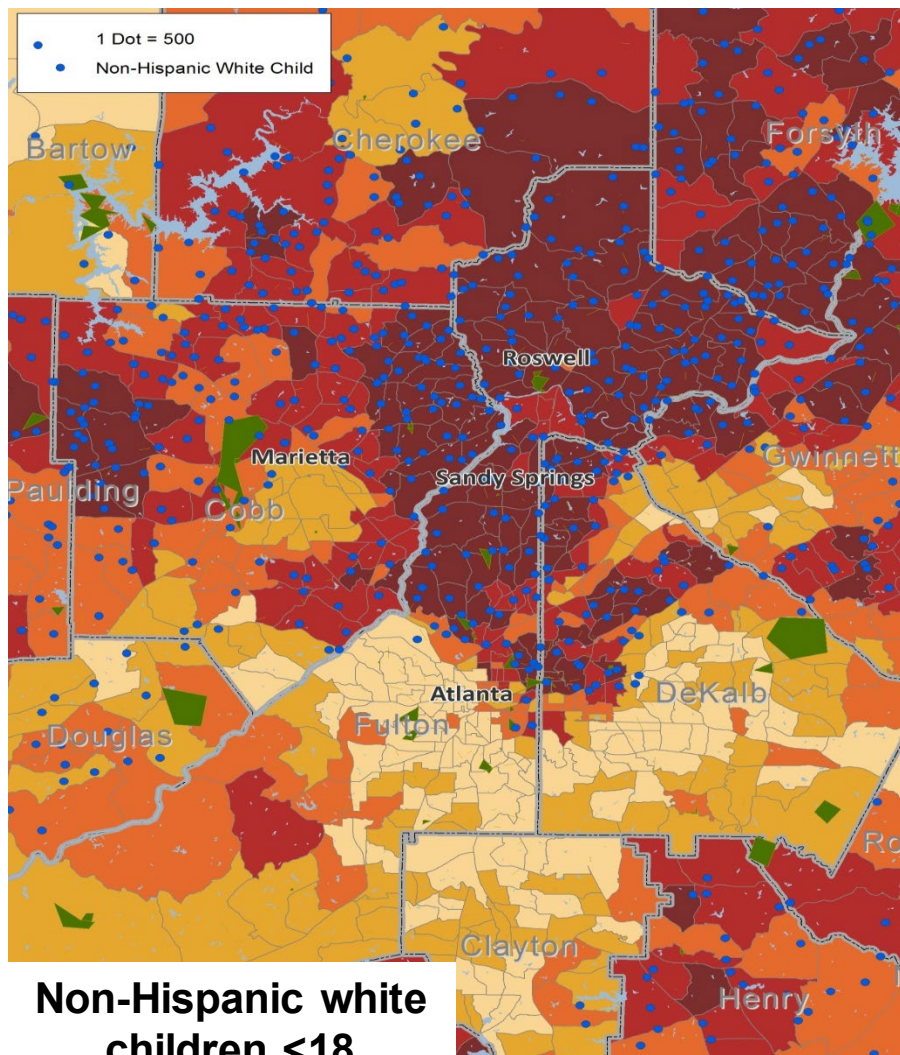


Kirwan Institute
Many Differences One Destiny

diversitydatakids.org

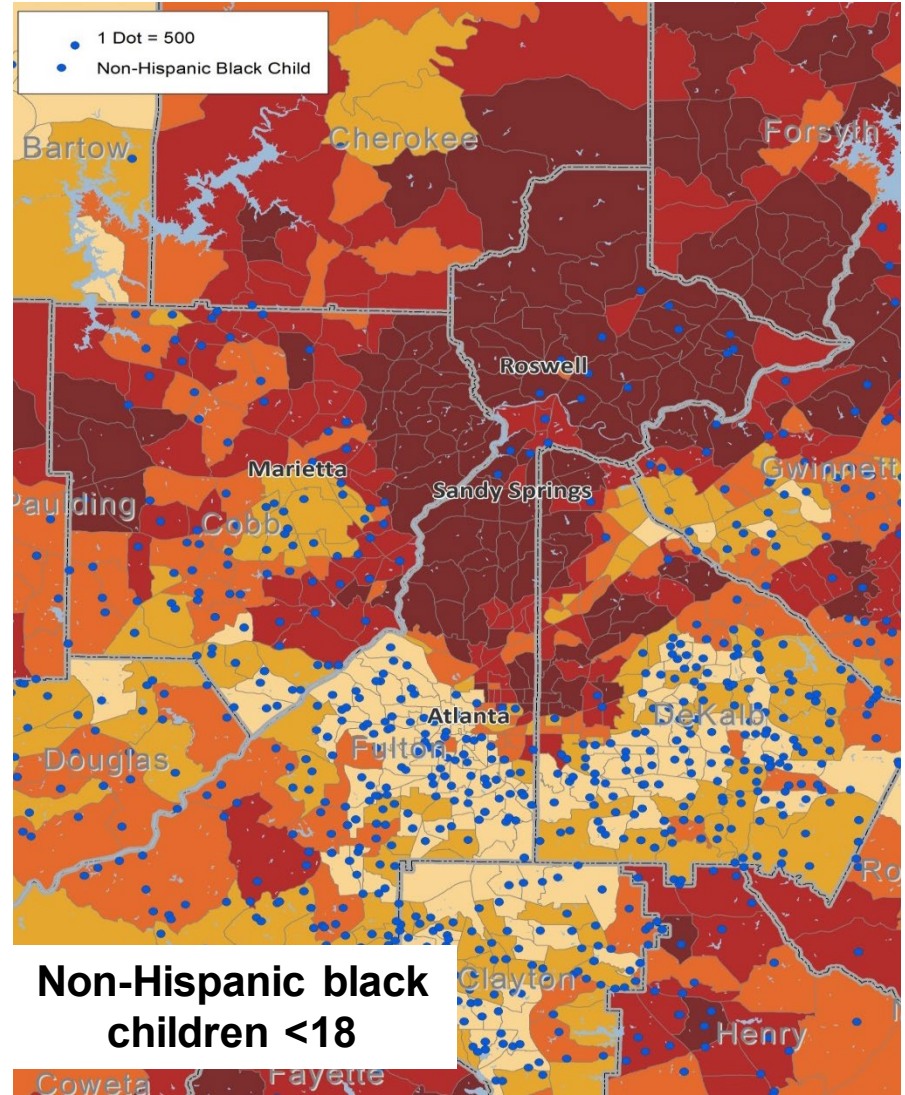
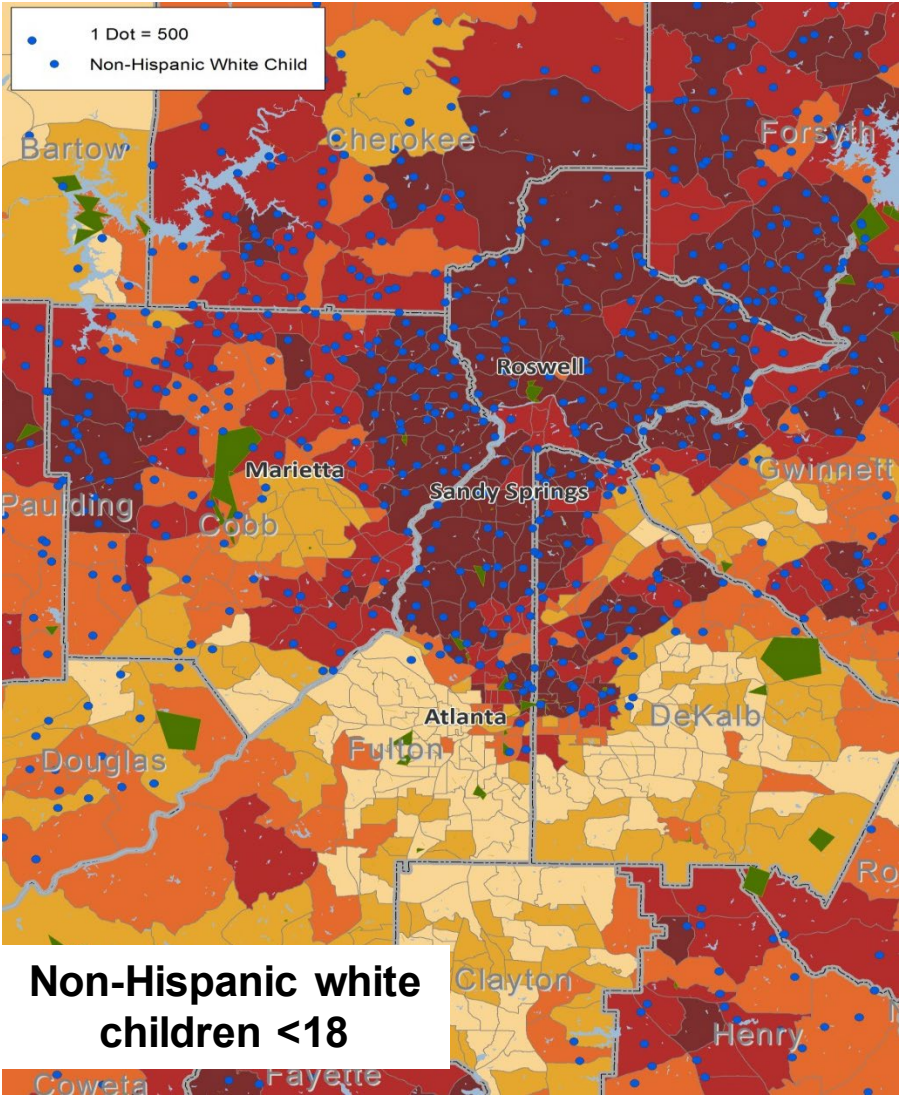


In Atlanta, stark white-black inequities in opportunities for children to thrive

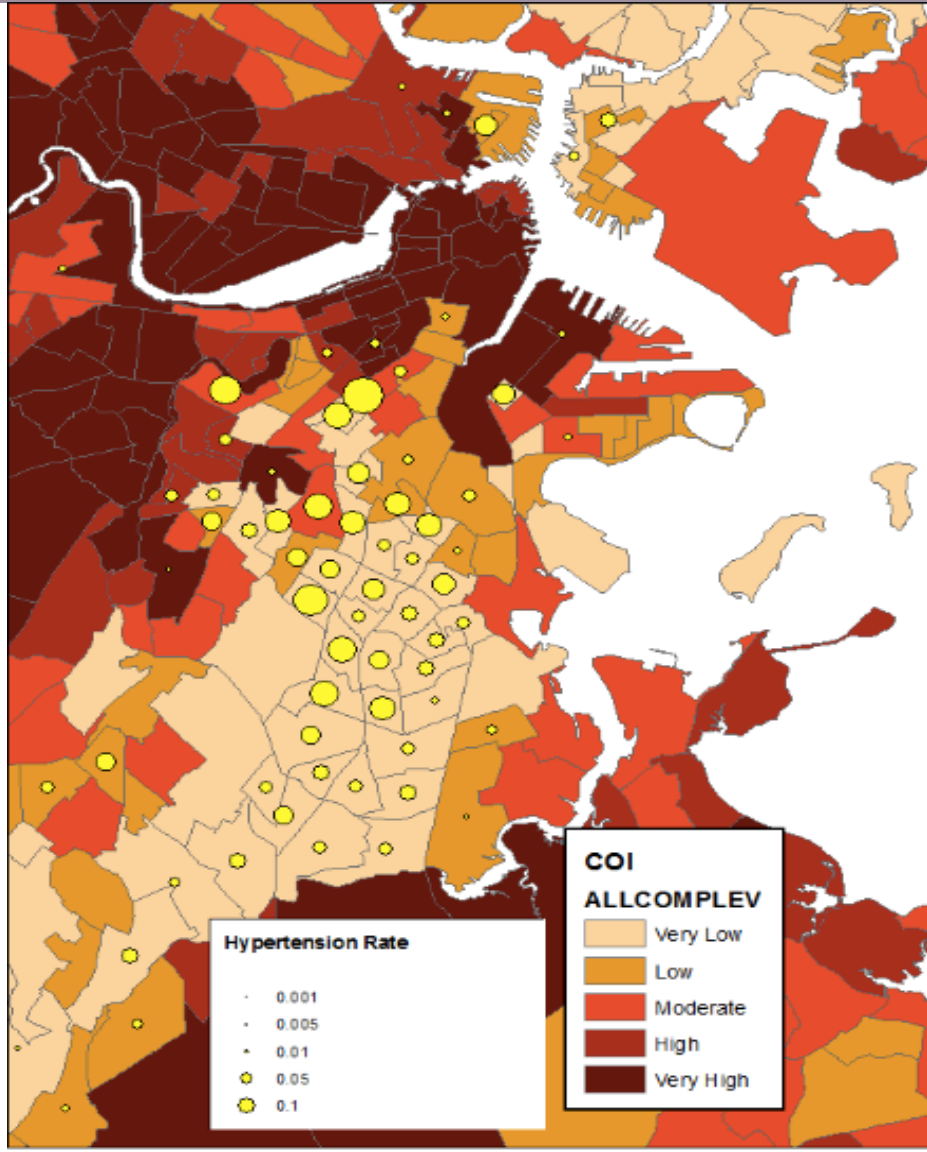


- The Child Opportunity Index is race-neutral (no race-specific measures go into the index).
- We first create the opportunity map and then overlay the child population by race to see how the location of opportunities compares with the location of children...
- Here is the white child population in Atlanta concentrated in high-opportunity neighborhoods.

In Atlanta, stark white-black inequities in opportunities for children to thrive



Place, Opportunity, and Health



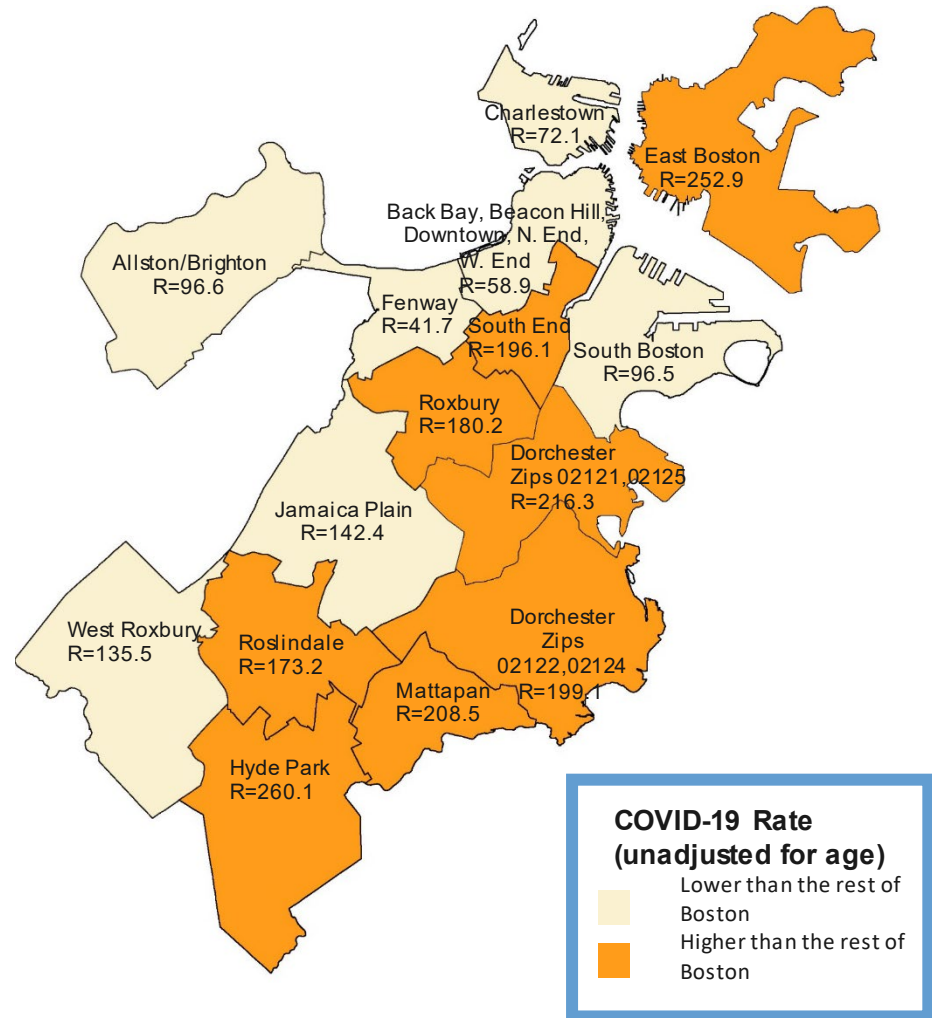
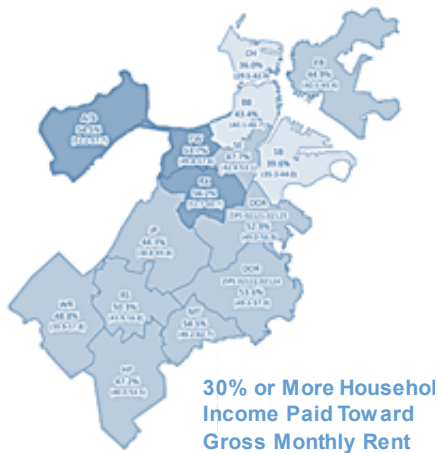
- Mapping elevations in the blood pressure of 3 years olds by Child Opportunity Index from diversitydatakids.org
- Vital Village Network at Boston Medical Center maps relationship between opportunity and life course (elevated BP at age 3)



Sandel et al Academic Pediatrics 2016

Deep-Rooted Inequity Across Lifespan & COVID-19

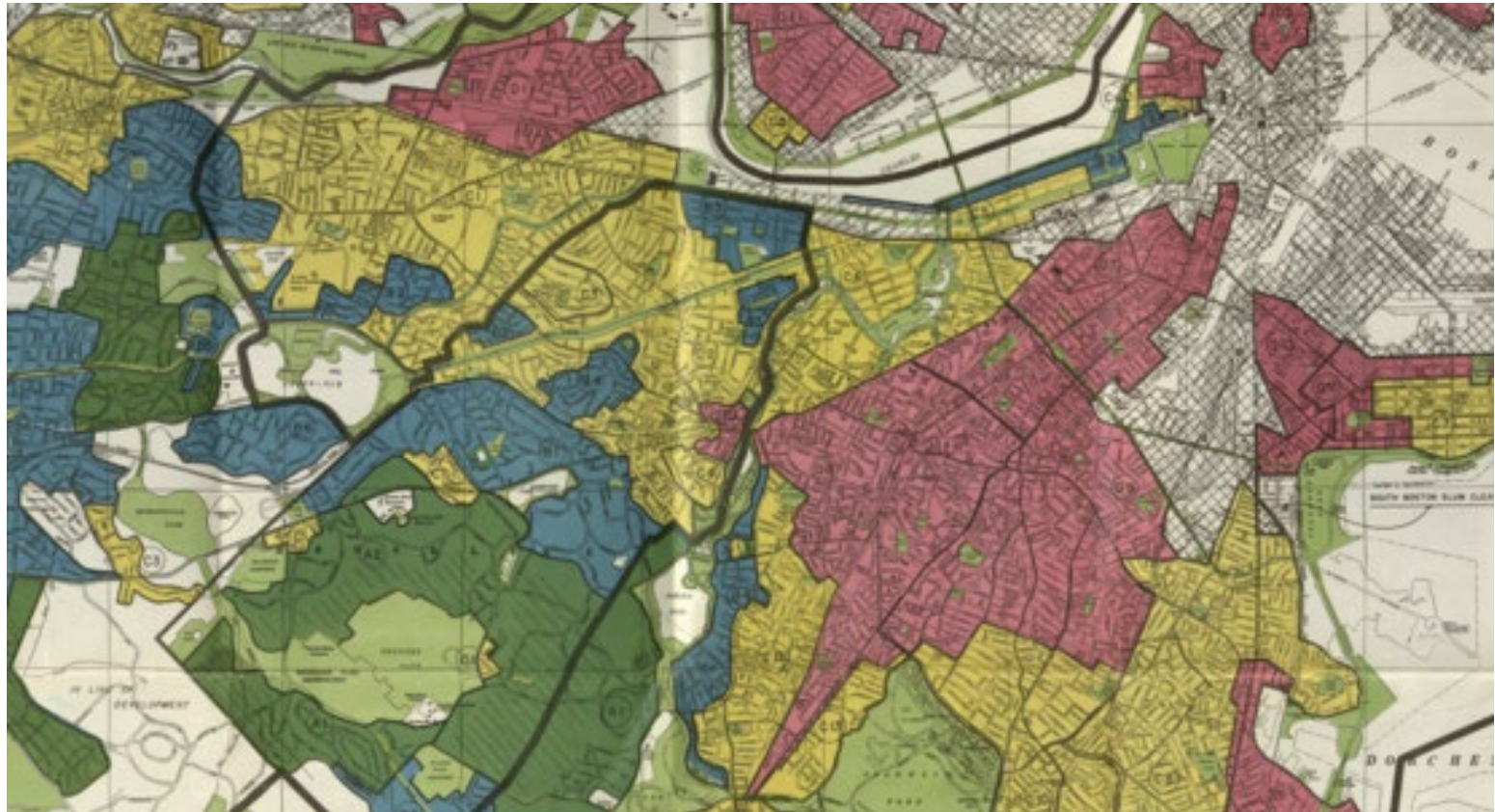
Without coordinated and systems-level investments, legacies of discrimination and disinvestment will be compounded by the health and economic effects of COVID-19. Residents will find themselves fenced off from the paths to prosperity previously afforded to those privileged by society.



DATA SOURCE: Boston Public Health Commission, Boston Surveillance System (Jan. 1, 2020 to May 7, 2020, 1:32pm); Massachusetts Department of Public Health, Massachusetts Virtual Epidemiologic Network (Jan. 1, 2020 to May 7, 2020, 1:32pm); U.S. Census Bureau, American Community Survey, 2018 5-yr estimates (2014-2018)
 DATA ANALYSIS: Boston Public Health Commission, Research and Evaluation Office

Understanding how Structures created the disparities is the foundation for seeking long term solutions

Federal Housing Authority practice of redlining denied mortgages to African American and Low Income Populations



Best



Still
Desirable

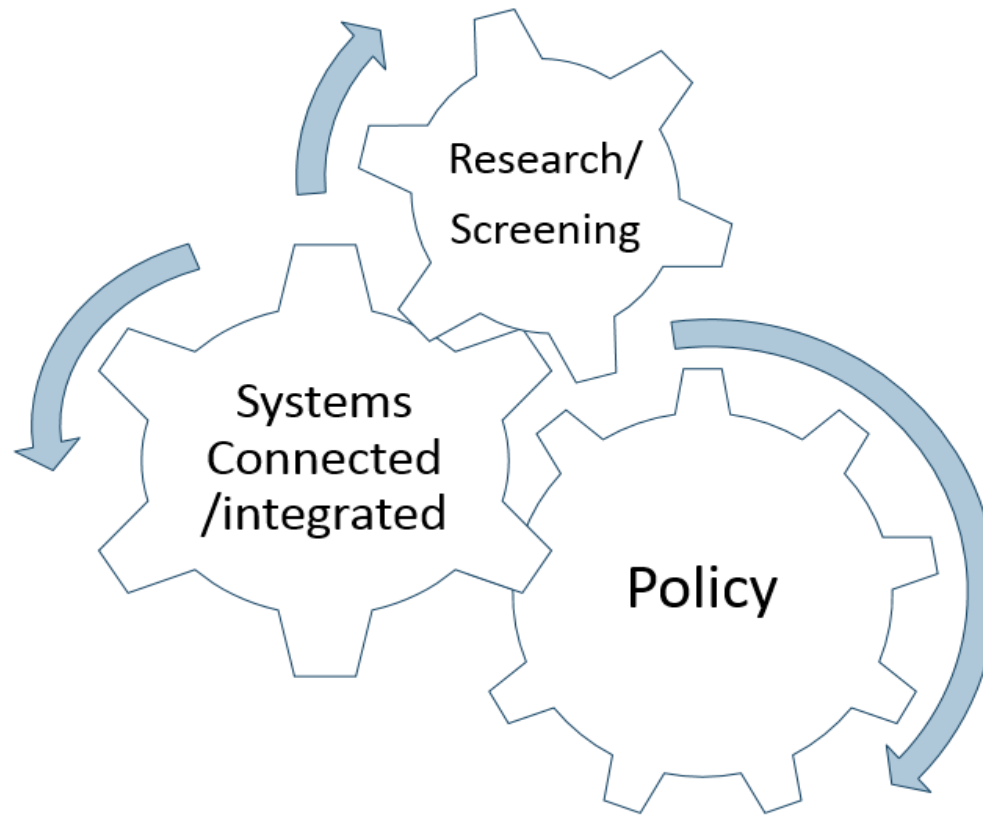


Definitely
declining




Hazardous

Changing the Social Risks and Increasing Access to the Efficacious Interventions



Promoting Health Equity Through Screening, Systems, and Policy work as Anchor Institution

Identifying and sharing SDOH needs is a critical component of our ACO work and the THRIVE Screener allows us to advance this effort











BMC Health System
THRIVE SCREENER
Addressing Social Determinants of Health










Place Patient Sticker Here

Please fill this out and give to the medical assistant when you are called into the exam room. Your answers will help your care team take better care of your health and connect you with resources. Thank you!

Please check “✓” your answers:

	<p>What is your living situation today?</p> <p><input type="radio"/> I have a steady place to live</p> <p><input type="radio"/> I have a place to live today, but I am worried about losing it in the future</p> <p><input type="radio"/> I do not have a steady place to live (I am temporarily staying with others, in a hotel, in a shelter, living outside on the street, on a beach, in a car, abandoned building, bus or train station, or in a park)</p>	
	<p>Within the past 12 months, the food you bought just didn't last and you didn't have money to get more.</p> <p><input type="radio"/> Often true</p> <p><input type="radio"/> Sometimes true</p> <p><input type="radio"/> Never true</p>	
	<p>Within the past 12 months, you worried whether your food would run out before you got money to buy more.</p> <p><input type="radio"/> Often true</p> <p><input type="radio"/> Sometimes true</p> <p><input type="radio"/> Never true</p>	
	<p>Is this an emergency, do you need food for tonight?</p> <p><input type="radio"/> Yes <input type="radio"/> No</p>	
	<p>Do you have trouble paying for medicines?</p> <p><input type="radio"/> Yes <input type="radio"/> No</p>	
	<p>Do you have trouble getting transportation to medical appointments?</p> <p><input type="radio"/> Yes <input type="radio"/> No</p>	
	<p>Do you have trouble paying your heating or electricity bill?</p> <p><input type="radio"/> Yes <input type="radio"/> No</p>	
	<p>Do you have trouble taking care of a child, family member or friend?</p> <p><input type="radio"/> Yes <input type="radio"/> No</p>	
	<p>Are you currently unemployed and looking for a job?</p> <p><input type="radio"/> Yes <input type="radio"/> No</p>	
	<p>Are you interested in more education?</p> <p><input type="radio"/> Yes <input type="radio"/> No</p>	

Please check “✓” the resources you want help with:

Housing / Shelter	Food	Paying for Medicine	Transportation to medical appointments	Utilities	Child care / Daycare	Care for elder or disabled	Job search/ training	Education
								
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

I do not want to answer these questions

© 2017 Boston Medical Center

The tool helps us **assess patients' needs** in the following domains:

- Housing
- Utilities
- Food
- Caregiving
- Affording medications
- Employment
- Transportation
- Education

The tool **engages patients** by asking if they want help connecting to resources and provides them with **immediate access to referral guides** available in six languages*

The screener & referral guides are **integrated seamlessly into the clinic's Epic workflow.**


- Positive screens prompt ICD-10 codes
- Requested referral guides print in the room

Systems can be Co-Located and Connected



BMC Food Pantry





BMC Health System
THRIVE SCREENER
Addressing Social Determinants of Health

Place Patient Sticker Here

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	Within the past 12 months, the food you bought just didn't last and you didn't have money to get more. <ul style="list-style-type: none"> <input type="radio"/> Often true <input type="radio"/> Sometimes true <input type="radio"/> Never true 	
	Within the past 12 months, you worried whether your food would run out before you got money to buy more. <ul style="list-style-type: none"> <input type="radio"/> Often true <input type="radio"/> Sometimes true <input type="radio"/> Never true 	
	Is this an emergency, do you need food for tonight?	<input type="radio"/> Yes <input type="radio"/> No
	Do you have trouble paying for medicines?	<input type="radio"/> Yes <input type="radio"/> No
	Do you have trouble getting transportation to medical appointments?	<input type="radio"/> Yes <input type="radio"/> No
	Do you have trouble paying your heating or electricity bill?	<input type="radio"/> Yes <input type="radio"/> No
	Do you have trouble taking care of a child, family member or friend?	<input type="radio"/> Yes <input type="radio"/> No
	Are you currently unemployed and looking for a job?	<input type="radio"/> Yes <input type="radio"/> No
	Are you interested in more education?	<input type="radio"/> Yes <input type="radio"/> No

Please check "✓" the resources you want help with:

Housing / Shelter	Food	Paying for Medicine	Transportation to medical appointments	Utilities	Child care / Daycare	Care for elder or disabled	Job search/ training	Education
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

I do not want to answer these questions

© 2017 Boston Medical Center

Three Sectors Address Social Determinants of Health in Silos

HEALTHCARE

treats illnesses
caused or
exacerbated by
SDOH.

LEGAL AID

ensures access to
benefits & services,
enforces laws that
keep people healthy.

PUBLIC HEALTH

tracks diseases on
population level,
addresses laws &
education aimed at
prevention.

The Medical-Legal Partnership Approach

TRAIN &
IDENTIFY
NEED

TREAT
PATIENTS

TRANSFORM
CLINIC
PRACTICE

IMPROVE
POPULATION
HEALTH

Developed by the National Center for Medical-Legal Partnership
www.medical-legalpartnership.org

Individual patient legal interventions are
*pathways to finding the policy interventions
for improving population health.*

CINCY URBAN APARTMENTS
1003 Lincoln Avenue
Cincinnati, Ohio 45206
(513) 221-1212
(513) 221-4121 FAX



NOTICE TO ALL RESIDENTS

May 24, 2010

At this time all residents are not permitted to install any a/c units for your apartment.

Anyone with an a/c unit will be evicted immediately.

Thank you
Management



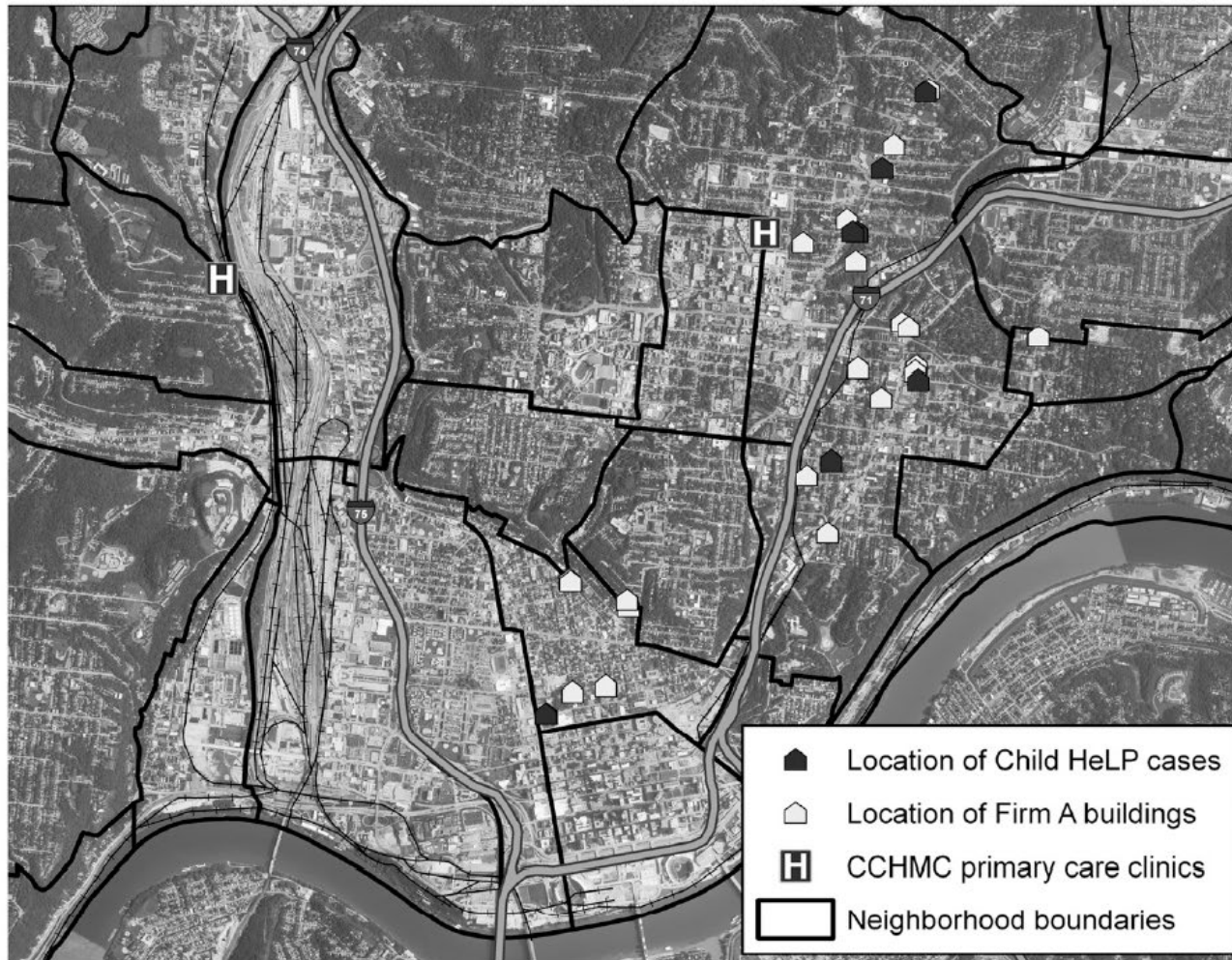


FIGURE 3
 Geographic distribution of the building complexes involved in the identified cluster of substandard housing. CCHMC, Cincinnati Children's Hospital Medical Center.

Community Builders Solution!



PEDIATRICS[®]
OFFICIAL JOURNAL OF THE AMERICAN ACADEMY OF PEDIATRICS

Identifying and Treating a Substandard Housing Cluster Using a Medical-Legal Partnership

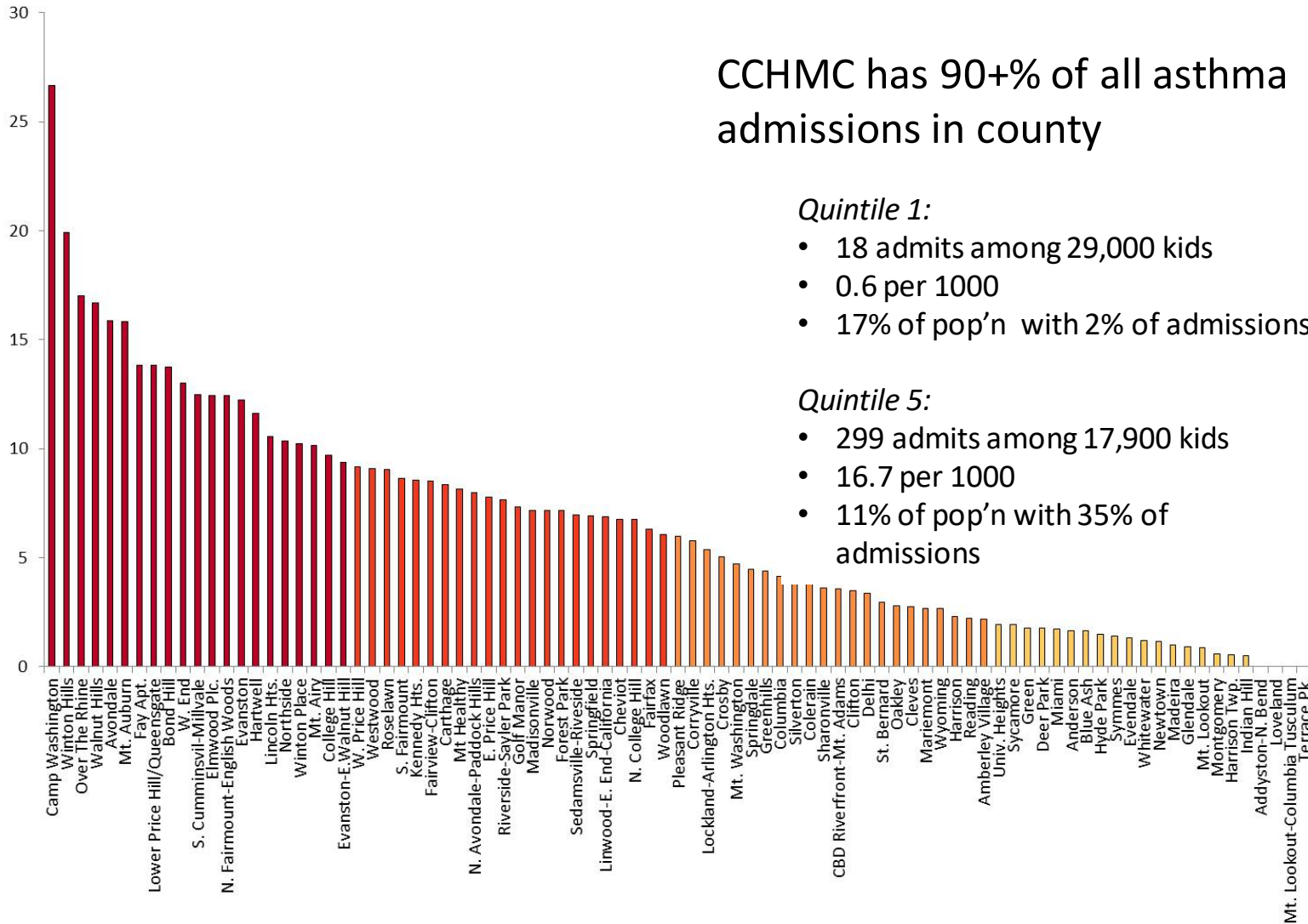
Andrew F. Beck, Melissa D. Klein, Joshua K. Schaffzin, Virginia Tallent, Marcheta Gillam and Robert S. Kahn

Pediatrics; originally published online October 22, 2012;
DOI: 10.1542/peds.2012-0769

Asthma admission rate per 1000 children, 3 year average (2010-2012)

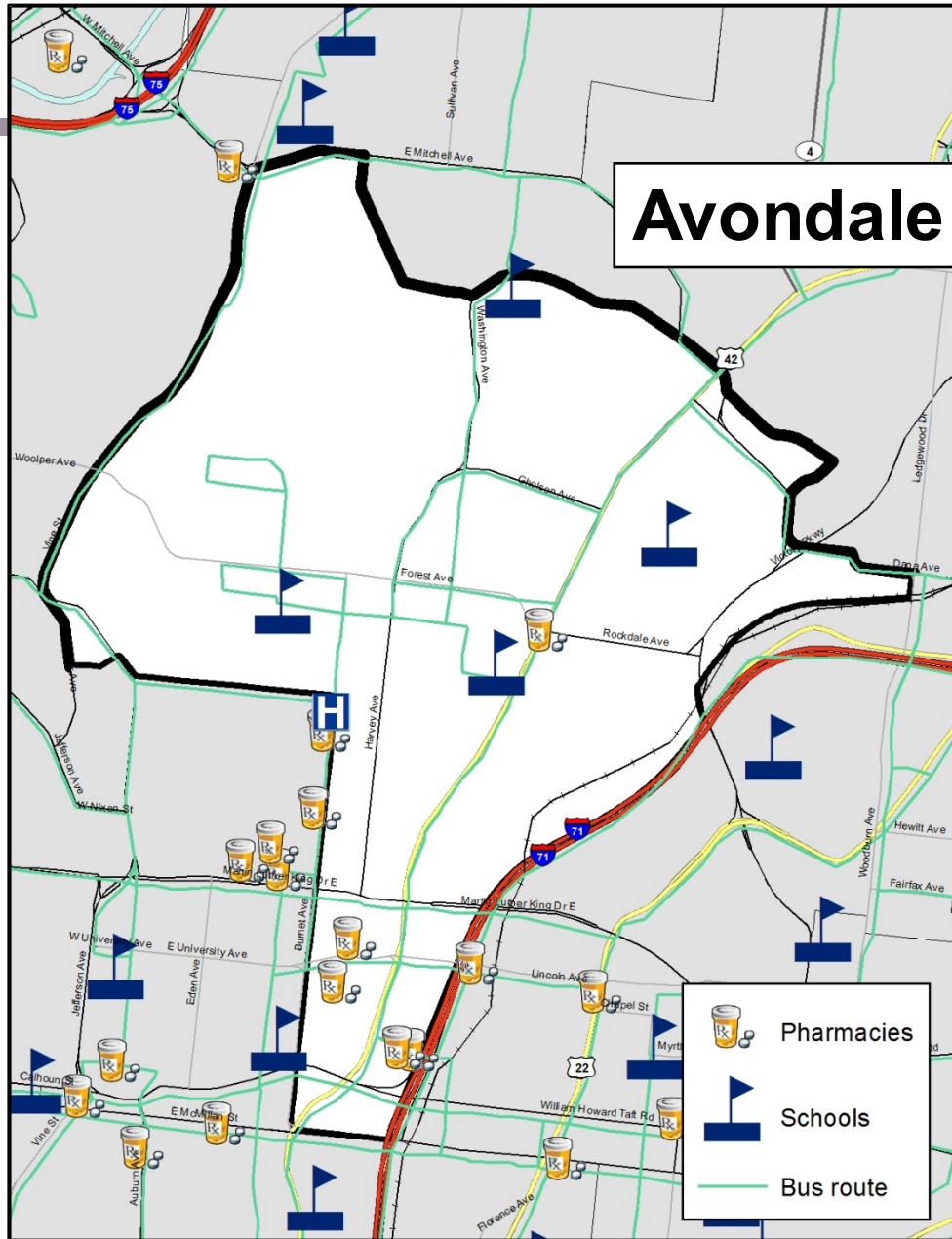


CCHMC has 90+% of all asthma admissions in county



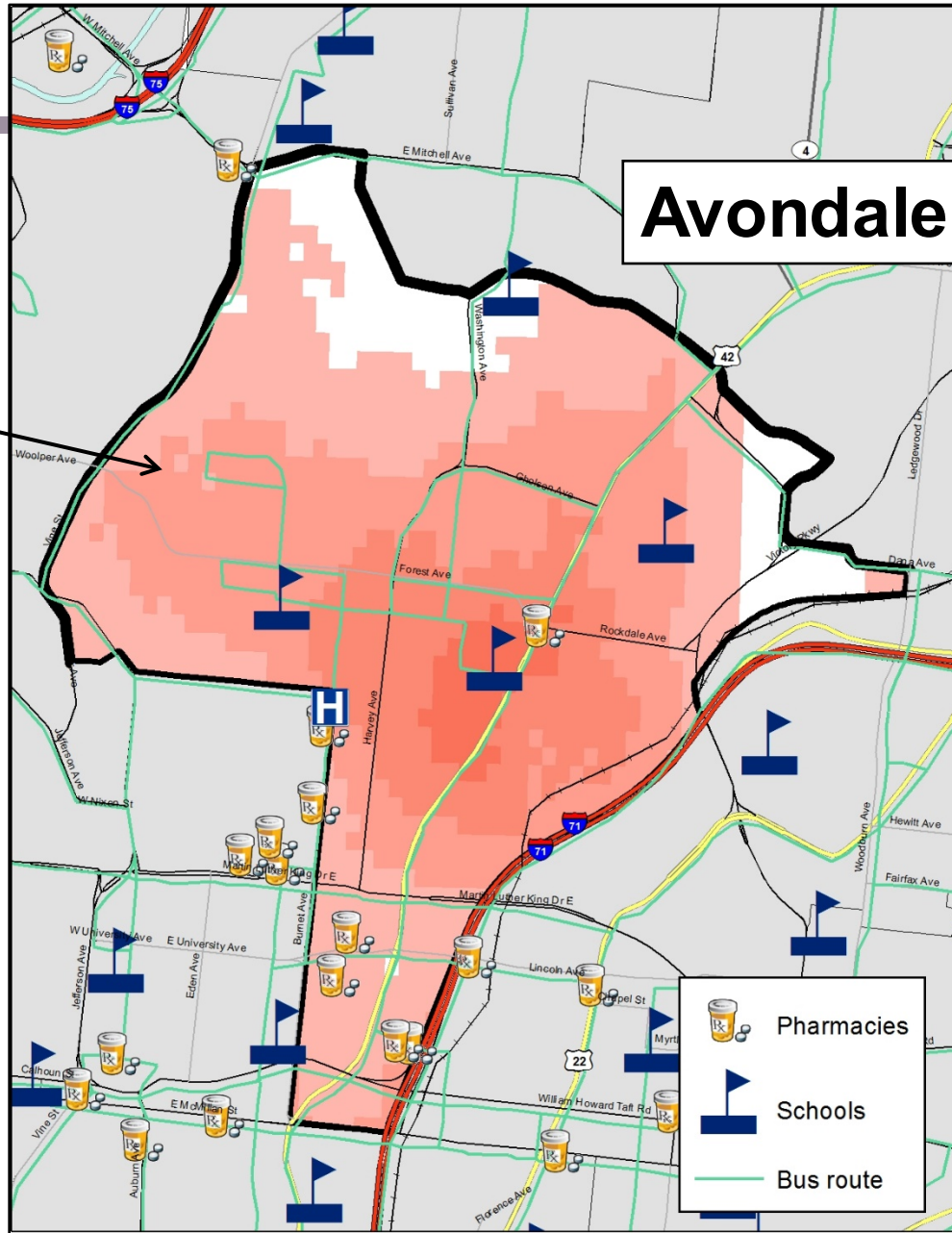
Beck (2013)





Beck & D. Jones (2014)

“Heat map” of building code violations



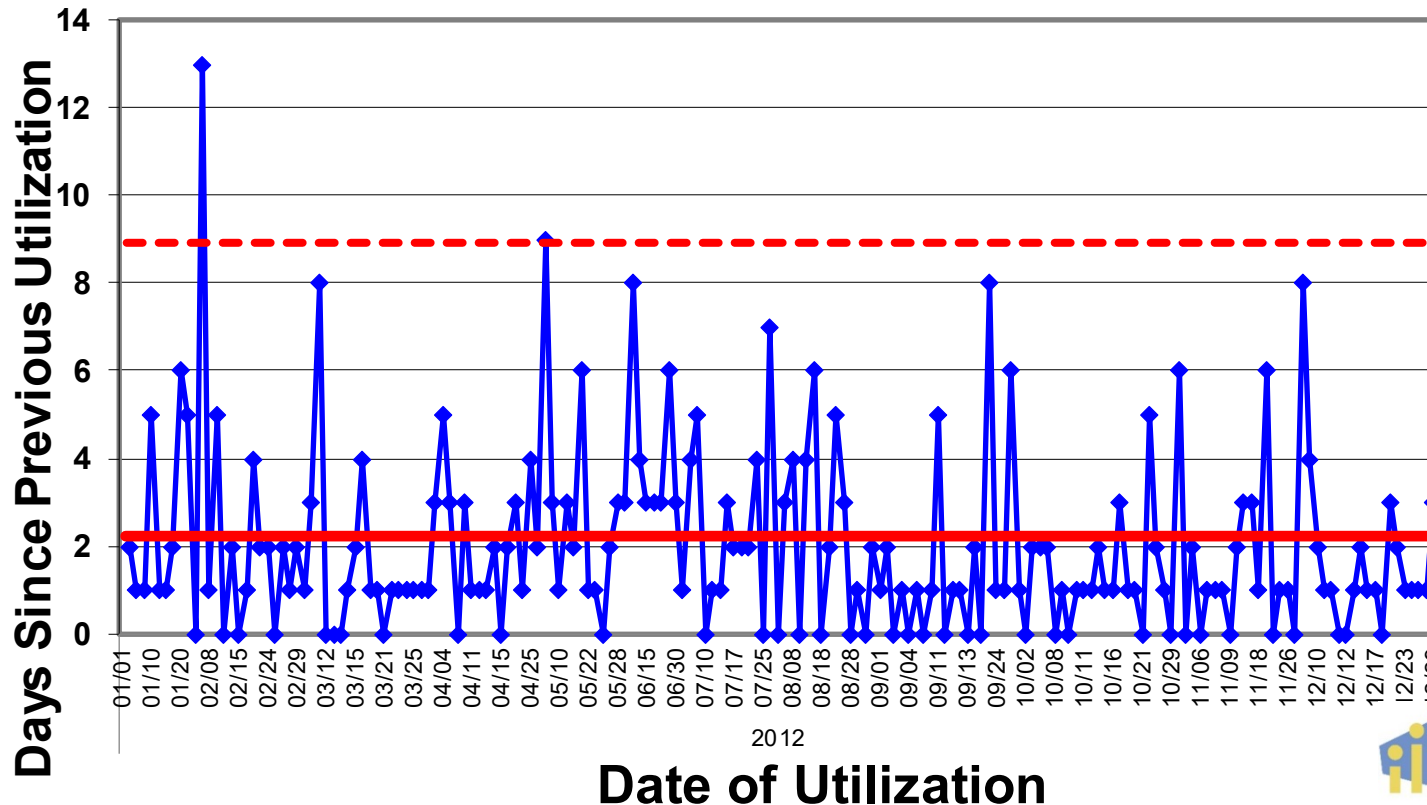
Beck & D. Jones (2014)

Avondale and Asthma – Neighborhood approach

Engaging Legal Aid: Child-Health Law Partnership



181 total utilizations – 130 ED visits, 51 admissions

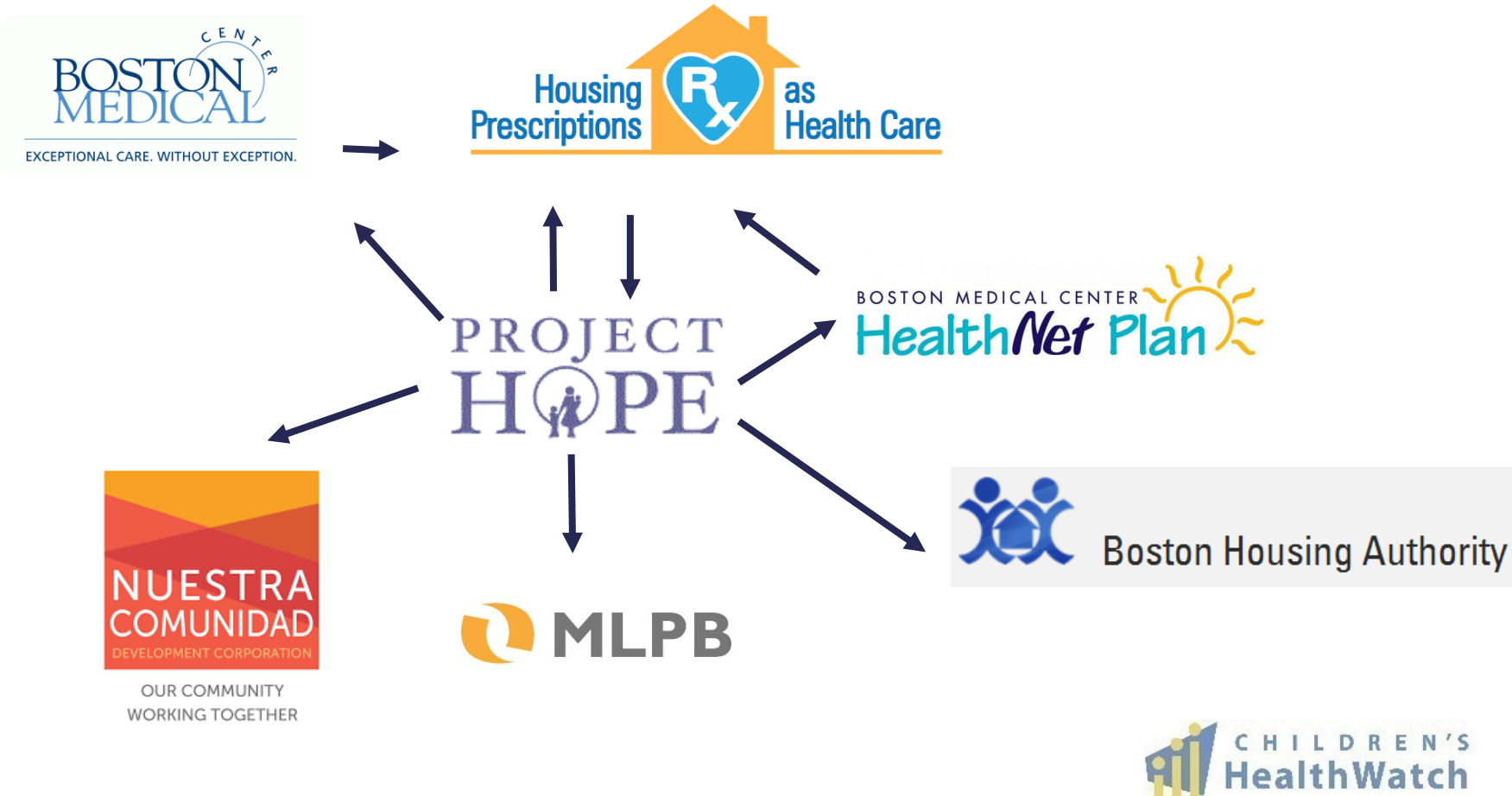


—◆— Days Since Previous Utilization
— Average Days Between Utilizations



Beck & D. Jones (2014)

Higher Dose Collaborations Targetting Medically Complex



Study Design and Participants

HealthAffairs

INTEGRATING SOCIAL SERVICES & HEALTH

By Allison Bovell-Ammon, Cristina Mansilla, Ana Poblacion, Lindsey Rateau, Timothy Heeren, John T. Cook, Tina Zhang, Stephanie Ettinger de Cuba, and Megan T. Sandel

Housing Intervention For Medically Complex Families Associated With Improved Family Health: Pilot Randomized Trial

- **Eligibility criteria:**
 - Families with child under age 11 receives primary care at BMC and eligible for Medicaid
 - Definition of medical complexity:
 - Child or adult with 3 or more ED visits in previous year
 - Child with medical conditions requiring 2 or more specialists
 - **Definition of housing instability:**
 - Homelessness in past year
 - Behind on rent in past year
 - Moved 2 or more times in the past year
 - Paying more than 50% of family income on housing costs
 - **Families interviewed at baseline and every six months for two years.**
 - Current study represents baseline and six months

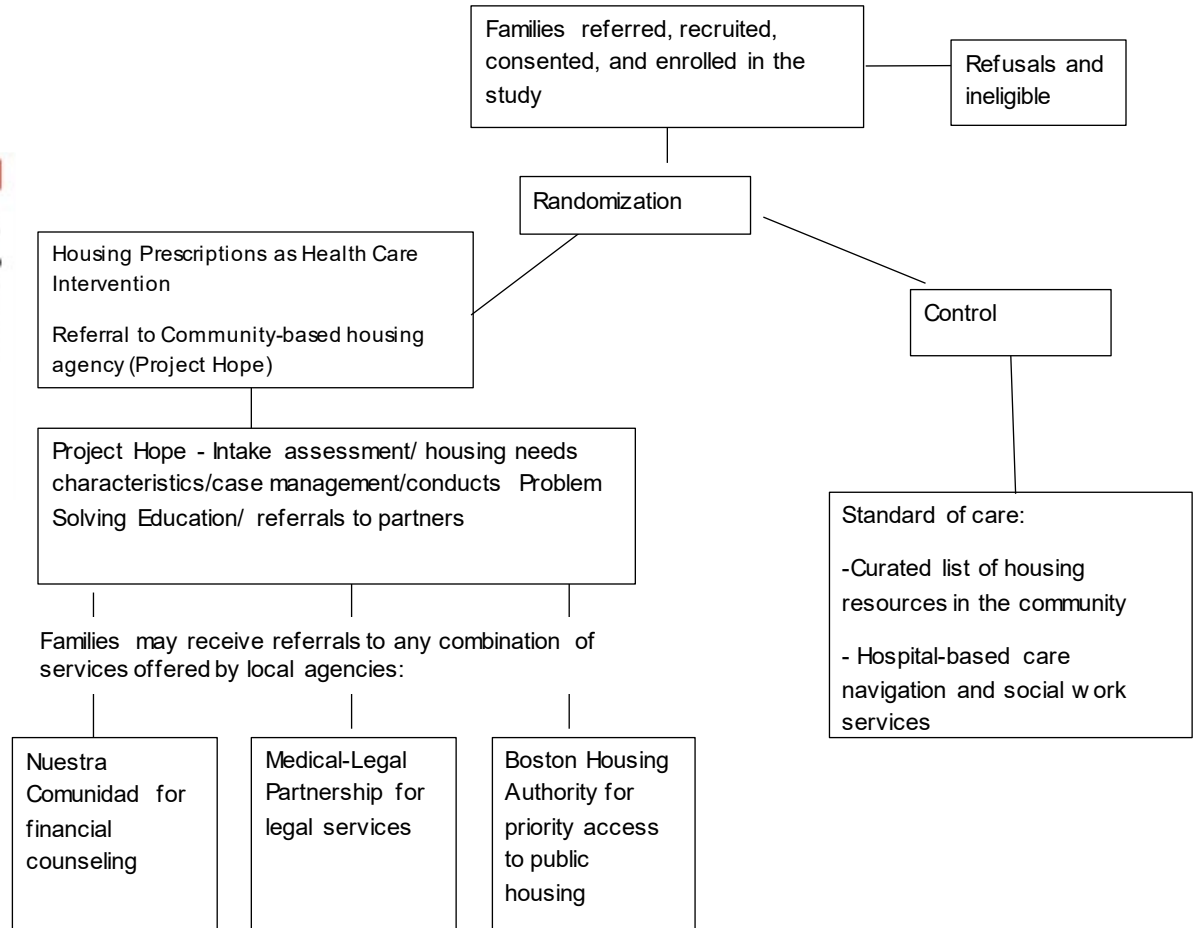
Study Design (cont'd)

HealthAffairs

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Key Findings

HealthAffairs

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Housing Intervention For Medically Complex Families Associated With Improved Family Health: Pilot Randomized Trial

Difference-in-differences in changes from baseline to 6 months between intervention and control groups, among participants in Housing Prescriptions as Health Care in Boston, Massachusetts

	Difference	95% CI
Behind on rent in past year	19 ^a	(-2, 40)
Two or more moves in past year	-9 ^a	(-11, 28)
Homeless in past 6 months	15 ^a	(-11, 40)
Child in fair or poor health	-32 ^{***}	(-59, -06)
In past 6 months, mean no. of child:		
Urgent care visits	-0.51	(-1.54, 0.51)
ED visits	-0.41	(-1.66, 0.83)
Hospitalizations	0.05	(-0.38, 0.49)
Mean GAD-2 score	-1.38 ^{**}	(-2.46, -0.31)
Mean PHQ-2 score	-1.04 ^{**}	(-1.95, -0.13)

Analysis demonstrated significantly greater improvements in child health status and parent anxiety and depression scores among those in the intervention group, compared to the control group.



Investing in Partnerships



Press Releases

Boston Medical Center to Invest \$6.5 Million in Affordable Housing to Improve Community Health and Patient Outcomes, Reduce Medical Costs

December 07, 2017

We are investing \$6.5M in housing initiatives in Boston's most underserved neighborhoods. Our first venture into housing is a key opportunity to partner with our community and impact population health

Partners

Funding

Housing Project Investments



\$2.2M

Housing Support Service



The Community Builder



\$0.9M

Hybrid Housing Project Investment



Pine Street Inn
Ending Homelessness



Boston Housing Authority

\$1.3M

Community Engagement & Housing Stability



\$1.7M

Social Impact Fund

HEALTHY
NEIGHBORHOODS
EQUITY FUND I LP

\$0.5M

- This fall, we innovatively guided Determination of Need obligated funding towards housing.
- We aim to support housing and wrap-around services our patients and use **Community Investment Tax Credits** to stretch dollars.
- We plan to test multiple approaches and have devoted \$0.65M to evaluation and oversight to determine the best approach.
- We look forward to working with other Boston hospitals to make similar investments and work collaboratively to improve community health.



Innovative
Stable
Housing
Initiative

\$3 million
pooled by 3
hospitals



INNOVATIVE
STABLE HOUSING
— INITIATIVE —



**Boston
Children's
Hospital**

Until every child is well™

BRIGHAM HEALTH



**BRIGHAM AND
WOMEN'S HOSPITAL**

The Healthcare Anchor Network is a national collaborative of more than 50 healthcare systems building inclusive and sustainable local communities

Network Participants:



CONNECT

A supportive, structured, and values-aligned network of peers to help you develop effective and impactful anchor strategies.



ADVANCE

The tools, strategies, case studies, and other practical resources you need to advance your institution's anchor mission.



LEARN

A shared—and expanding—base of research and knowledge to draw from, building off best practices in the field.



INNOVATE

A design laboratory where you can initiate and build innovative shared solutions with other institutions.



SHARE

Structured learning experiences where leading institutions can share candidly with you as a peer.



ADVOCATE

A networked, collective, and national platform to advocate for what matters to your institution.



LEAD

Recognition for your institution as an anchor leading the way towards healthy communities.



COLLABORATE

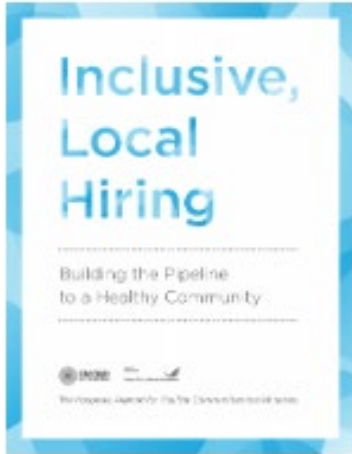
The networked services of a full-time team dedicated to creating productive opportunities to collaborate and share.

Current Participants in the Network Include:



The Healthcare Anchor Network focuses on local hiring; local sourcing, and place-based investing to drive change

*We can leverage our everyday business practices to **impact economic factors** that contribute to the overall well-being of our communities, and **create community wealth** through:*



Inclusive, Local Hiring: Building the Pipeline to a Healthy Community
This toolkit offers a guide for how to leverage hiring practices to advance inclusive, local job creation and career development for communities experiencing the greatest health and wealth disparities.



Inclusive, Local Sourcing: Purchasing for People and Place
This toolkit showcases examples of how hospitals and health systems are supporting diverse and locally owned vendors and helping to incubate new community enterprises to fill supply chain gaps and drive local economic growth in their communities.



Place-Based Investing: Creating Sustainable Returns and Strong Communities
This toolkit outlines place-based investing strategies that allow health systems to earn a financial return on their investments while producing a positive social, economic, or environmental impact within their geographical service areas.



Building Multi-Sector Coalitions: Steering Committee



OPPORTUNITY
STARTS AT HOME

www.opportunityhome.org



NATIONAL LOW INCOME
HOUSING COALITION

Center on
Budget
and Policy
Priorities



CHILDREN'S
HealthWatch



National Alliance to
END HOMELESSNESS



Catholic
Charities
USA



children's
defense fund
Leave No Child Behind



COMMUNITY CATALYST

FRAC
Food Research
& Action Center



NATIONAL
WOMEN'S
LAW CENTER
Justice for Her. Justice for All.



JLUSA



NAMI
National Alliance on Mental Illness



NATIONAL ASSOCIATION OF
Community Health Centers



NATIONAL
LGBTQ
TASK FORCE

be you.



N A S W
National Association of Social Workers

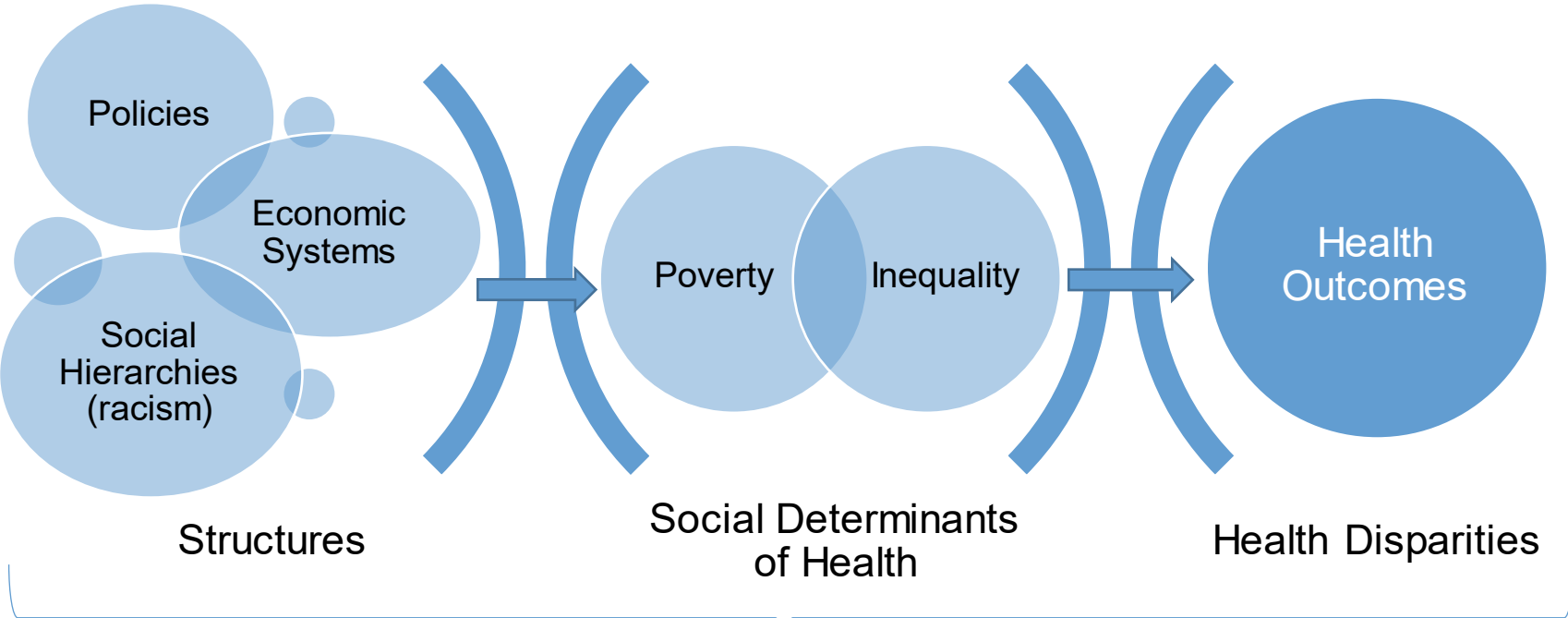
NLC

NATIONAL
LEAGUE
OF CITIES

UNIDOS US

STRONGER COMMUNITIES. STRONGER AMERICA.

Structural Competency includes understanding Structures, Social Determinants of Health and Health Disparities

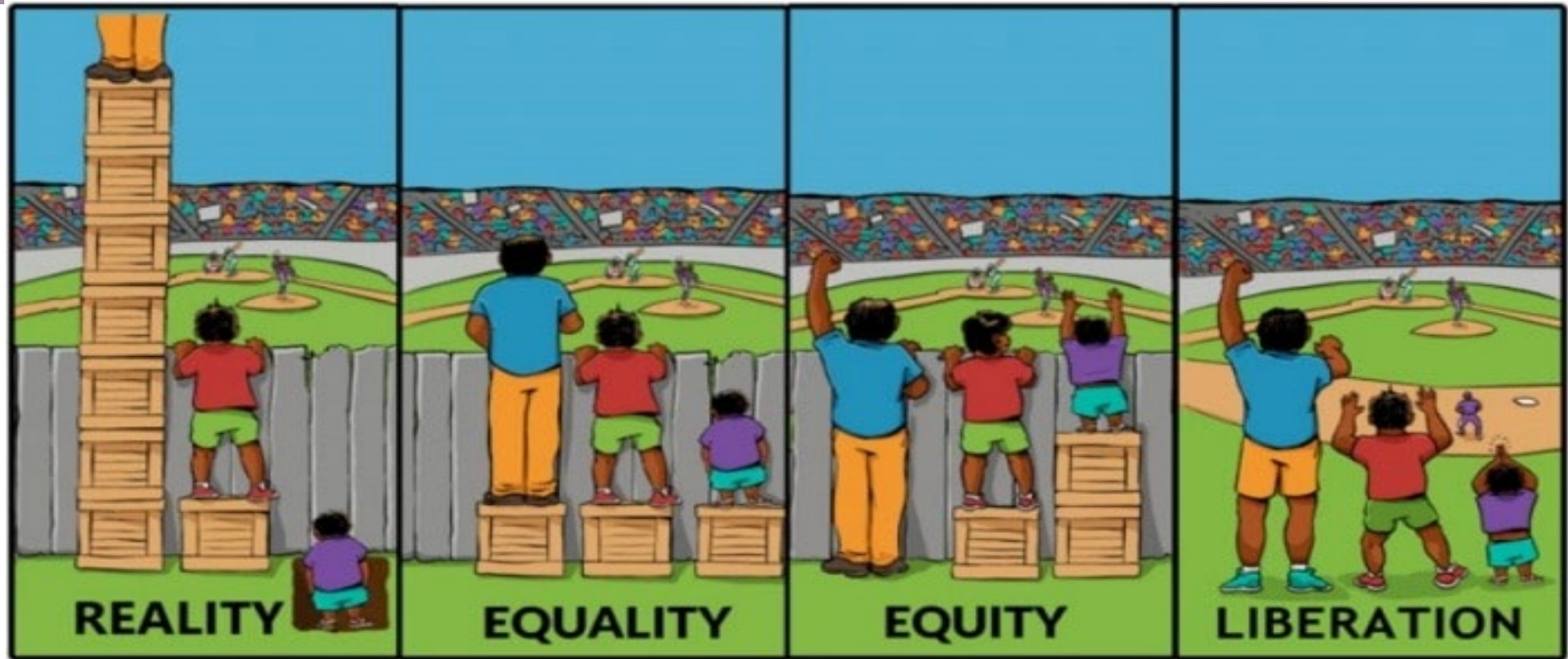


Metzl JM, Hansen H. 2014
Hansen, H et al 2017

Structural Competency



Move beyond addressing gaps temporarily towards true equity and beyond



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Equal Treatment:

- Assumption that all will benefit
- Starting point for many of our patients is different

Equitable Treatment:

Everyone given different supports to provide access. Filling gaps (often temporarily)

Equity and Beyond:

All have access without supports needed. Root cause of inequity addressed. Structural barrier removed.