

# The Hazards of a "Dam-Good" Intervention Threats to Well-intentioned Upstream Population Health Solutions

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## Objectives:

Introduction

The Healthy Neighborhood, Healthy Families (HNHF) experience

Overview the challenges and pitfalls of working "upstream"

Case study and lessons learned





Avondale, Cincinnati, Ohio

South Side, Columbus, Ohio



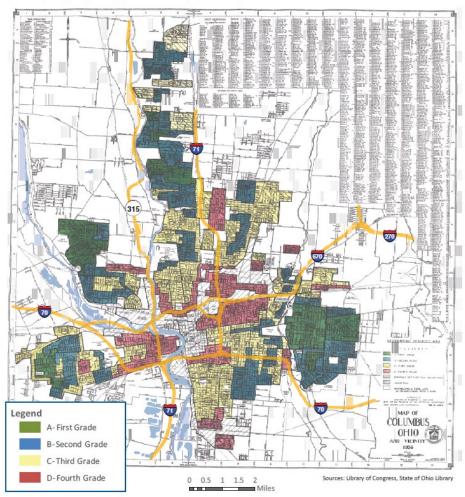


Avondale, Cincinnati, Ohio

South Side, Columbus, Ohio



Figure 8: 1936 Redlining Map (Areas C and D were considered to be areas at high risk for mortgage insurance, often due to the racial or ethnic makeup of these neighborhoods, leading to higher mortgage rates and discouraging investment.)

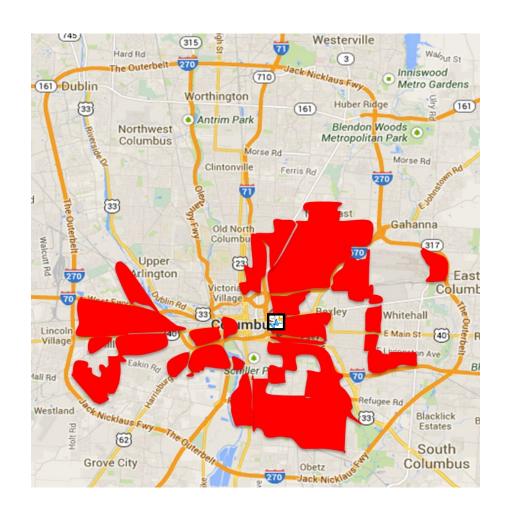


# Redlining map of Franklin County (circa. 1936)

Modern interstate highways super-imposed



http://kirwaninstitute.osu.edu/reports/2013/2013-Franklin-County-Childrens-Report.pdf



# Franklin County: Child Opportunity Index Map

#### **Educational Opportunity**

Student poverty rates in local schools
Student math/reading proficiency
Early childhood education index
High school graduation rates
Adult educational attainment

#### **Health and Environmental Opportunity**

Proximity to health facilities
Retail healthy food environment index
Proximity to toxic waste sites
Volume of nearby toxic release
Housing vacancy rates

#### Social and Economic Opportunity

Foreclosure rates
Poverty rates
Unemployment rates
Public assistance rates
Proximity to employment



http://kirwaninstitute.osu.edu/reports/2013/2013-Franklin-County-Childrens-Report.pdf

# Early 2000s: \$80 million expansion

The single largest children's hospital in America

### Mid-2010s: \$730 million expansion

Largest behavioral health hospital in America
One of the largest pediatric research centers in the world

# If you live in a blighted neighborhood anchored by a prestigious children's hospital, what's not to love about that?

# Please, DON'T you be my neighbor!

Infrastructure
Traffic/Parking
Gentrification
Lack of jobs for local
residents

Lack of investment in local businesses



#### 20

### **Approach to the Unhealthy Child:**

**Defining Patient Information Chief Complaint History of Present Illness Past Medical History** Physical Exam, Diagnostic Tests Assessment and Plan



So if by learning to intervene early we can improve outcomes for our patients...



... what would happen if we treated our neighborhood – the people, not the property – as our most important patient?



OFFICIAL JOURNAL OF THE AMERICAN ACADEMY OF PEDIATRICS

# The Healthy Neighborhood, Healthy Families Initiative

Kelly Kelleher, MD, MPH, a Jason Reece, PhD, b Megan Sandel, MD, MPHc



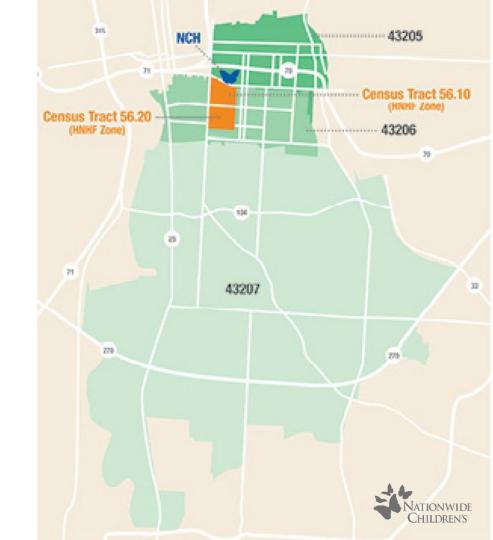
# Approach to the Unhealthy Neighborhood: <u>Neighborhood Effect Syndrome</u>

Concentrated Poverty
Racial Segregation
Trauma
Violence
Environmental Toxins
Low Social Cohesion and Support
Poorly Performing Schools

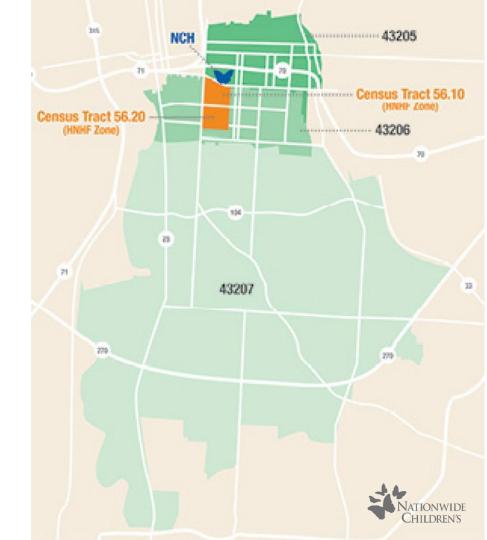


#### Southern Orchards was hit hard by housing 2008 housing crisis:

- 1 in 4 residents lived in poverty
- 23% of the population were children
- More than half of residents reported being "housing-cost burdened" (housing costs > 35% of income)
- 1 in 5 homes foreclosed
- 1 in 3 homes abandoned, derelict, or vacant (peak rate)



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- Nationwide Children's Hospital chose the Southern Orchards neighborhood as the target for a community intervention.
  - Proximity & connectivity to the hospital
  - Active neighborhood leadership
  - Political will to address foreclosures.



Kelleher, K., Reece, J., & Sandel, M. (2018). The healthy neighborhood, healthy families initiative. *Pediatrics*, 142(3), e20180261.







# HEALTHY NEIGHBORHOODS HEALTHY FAMILIES





AFFORDABLE HOUSING



**HEALTH & WELLNESS** 







#### Education:

- SPARK Kindergarten Readiness monthly educational home visits for 80 children
- NCH-partnered mentoring program
- Upward Bound Math and Science summer camp

#### Safe and Accessible Neighborhoods:

- Neighborhood beautification and crime patrol
- South Side Leadership Academy

#### Health and Wellness:

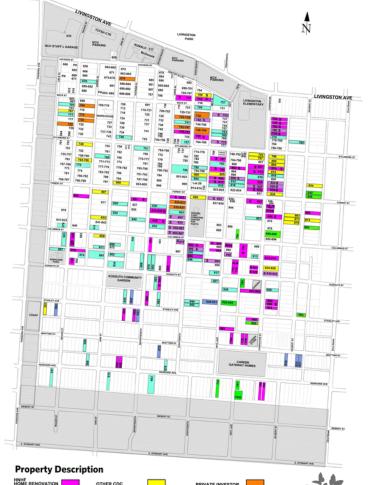
- Care Connection school-based health services at over a dozen area schools
- Early childhood classroom consultation and support

#### Affordable Housing:

- Healthy Homes More than 350 homes impacted from full renovations to home repair grants
- Residences at Career Gateway 58-unit community with on-site career development facilities & training

#### Job Opportunities:

- Transitional job model and job fairs
- Career Gateway Academy FREE job training workshops in community for tenants and South Side residents in 43205, 43206, 43207











### **Challenges to engineering upstream solutions:**

Clinical
Operational
Financial
Ethical



#### **CLINICAL CHALLENGES:**

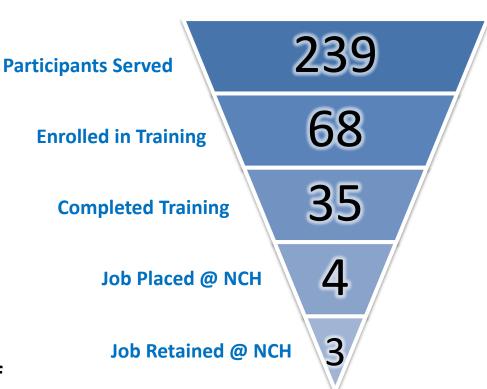
- Building trust, overcoming history, and setting expectations:
  - The legacy of injustice and discrimination: what's old is now new, again
- Accessibility:
  - Proximity ≠ access
- Duplication of services:
  - Other organizations are working in the same spaces, but are we coordinating our efforts?
    - E.g. school-based health services
- Value of services provided:
  - Value is deeply personal
  - Rural vs. urban value divide





#### **OPERATIONAL CHALLENGES:**

- Who are we serving exactly?
  - Developing a customer and community service approach
- Teaching the culture...
- How will we measure success?
  - What are we measuring?
- Are our metrics aligned well with the expectations of the community?
  - Anchor = "retained employee, 3+ years"
  - Client #1 = "a full-time job"
  - Client #2 = "\$100 to survive this month"
- Creating a system that talks with itself
  - Full integration = community engagement team, hiring managers, and supervisors/program directors





#### **FINANCIAL CHALLENGES:**

#### • Fee-for-service model<sup>1</sup>:

Reverse-alignment of incentives for population health

#### • Capitation model<sup>1</sup>:

 Medicaid offers new incentives for population health, but delayed return on investment

#### Competition for resources:

 Population-health initiatives often compete for scarce\* resources

#### Fair and equitable hiring practices:

 Often institutional decisions are responsible for determining who takes advantage of economic opportunity

#### Local financial impact (e.g. buying from local business):

The promised economic impact often doesn't live up to the hype

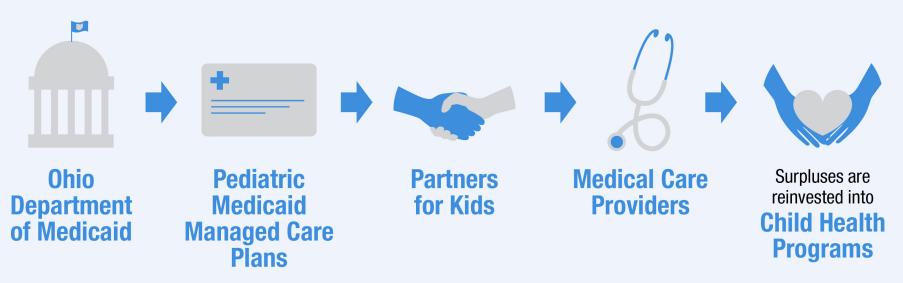






### **Partners For Kids Flow of Funds**

Partners For Kids receives funds for each child in the program for the child's medical care.



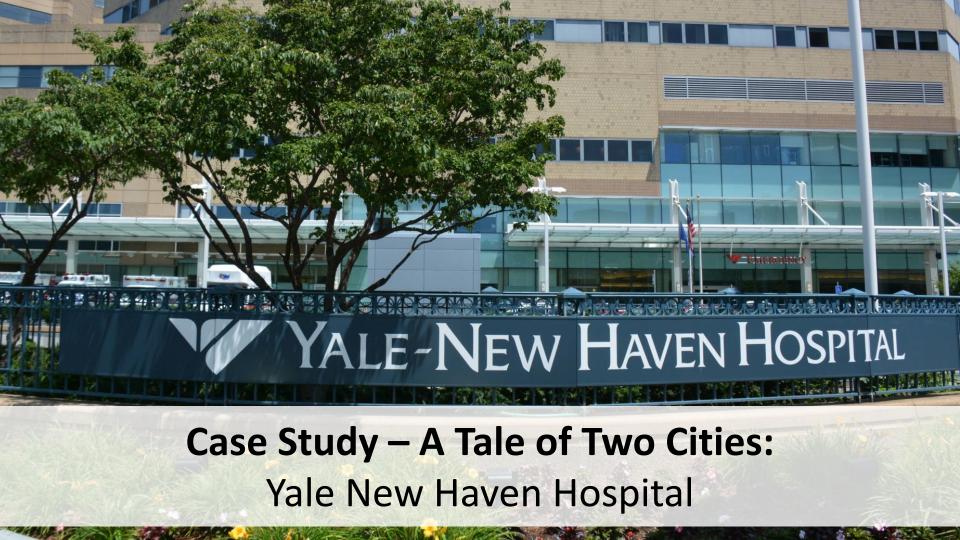
Nationwide Children's Hospital began assuming the risk for children on Medicaid in 2002, and expanded the program in 2008 to include 300,000 children in the community.

#### **ETHICAL CHALLENGES:**

- Balancing institutional expertise with community expertise:
  - Solutions to adverse community health conditions must not be paternalistic
  - Coming alongside, leading from behind
- Improving community infrastructure while avoiding gentrification:
  - HNHF has a complex formula that includes 1)
     balance of properties for sale and rent, 2) and
     plans for sale of future housing stock
- The "community elder conundrum" cultivating a steady supply of wellequipped community leaders:
  - "What do we do when Mr. Tony leaves?"
  - Neighborhood Leadership Academy







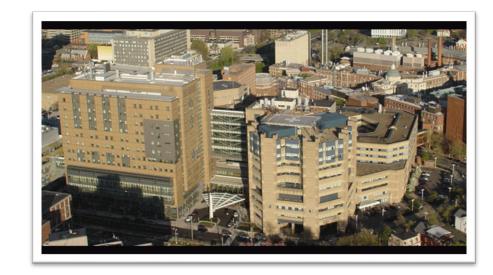
#### **HEALTH CARE**

### A tarnished hospital tries to win back trust

Yale New Haven Hospital, once reviled for hounding low-income patients for money, wants to be a model for community outreach.

By DAN DIAMOND | 12/31/2017 07:43 AM EST

- Article: 12/31/2017
- Hospital leaders struggled to rebuild trust with the community:
  - Yale New Haven Hospital dominates the economic landscape of an impoverished community
  - Several years of un-realized promises regarding economic investment and job opportunities within the community
  - Community elected leaders often hesitate to criticize such a powerful community entity







#### HEALTH CARE

### A tarnished hospital tries to win back trust

Yale New Haven Hospital, once reviled for hounding low-income patients for money, wants to be a model for community outreach.

By DAN DIAMOND | 12/31/2017 07:43 AM EST

- Yale New Haven Hospital worked hard to restore the trust:
  - Significant investments in Habitat for Humanity and other organizations
  - \$2 million New Haven Promise college scholarship for qualifying student-residents
  - Increased publicity of community benefit
  - \$500,000 for in homelessness initiatives
- Community leaders touted efforts as big steps toward improving trust and community impact







# **2017 Foster G. McGaw Prize**American Hospital Association

"Yale New Haven Hospital is passionate about public health. Beyond providing excellent care to their diverse communities, they see and nurture the connection between health and a stable neighborhood, good jobs, and home ownership."

- Nurturing Healthy Kids
- Educational Opportunities
- Revitalizing Neighborhoods
- Homelessness
- Working with local recruiters





**Valley Independent Sentinel** 

La Voz Hispana

**Yale Slammed On Local Hiring Promise** 

by CHRISTOPHER PEAK | Feb 22, 2019 8:58 am

- Yale is receiving renewed criticism this year from residents regarding perceived broken promises to the community:
  - 2015: Yale promised to hire 500 residents from "neighborhoods of need" over 3 years
  - During a city council meeting in February, report of 2590 new community jobs dramatically fell to 273 when numbers were reassessed.
  - Community members openly argued the numbers of new hires, challenged what jobs were being included in the final tally (e.g. full-time versus temporary)

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Valley Independent Sentinel

La Voz Hispana

#### **Yale Slammed On Local Hiring Promise**

by CHRISTOPHER PEAK | Feb 22, 2019 8:58 am

"What Yale actually owes the city is the hundreds of millions in taxes they owe. As it's structured now, New Haven is paying for Yale to be here, not the other way around."

-- Lorna Chitty, Yale Student, Ward Co-chair





### **Lessons to learn and pitfalls to avoid:**

Anchor institutions can be motivated to make population-level impact within communities

Investing in neighborhoods produces returns on investment beyond financial, but it often takes time to see the return

Community engagement at every step is vital to the success of upstream programs and initiatives

Truly sustainable upstream population health work is communitydriven and community-led

Measurable impact is key to proving value to the community

Maintained presence develops trust



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