Social Health Health Health Deter-Outcomes Care Behaviors minants ER visits for Infant Mortal Smoking/ Unemployed ambulatory cz Preventable Inadequate No health ins Obesity physical activi hospital stay Medicaid Inadequate physician % below poverty Diabetes nutrition availability Life Expectancy Illegal drug use Access to ffv elevated leav

Community Health Dashboard

Presentation to Health Services Research Seminar

Amy R. Sheon, PhD, MPH Executive Director, Urban Health Initiative CWRU School of Medicine

March 9, 2012



Introduction







RFA: 89-AI-21

P.T. 34; K.T. 0715008, 0710070, 0411005, 0760003, 0710030

National Institute of Allergy and Infectious Diseases

Anticipated RFA Availability Date: November 1, 1989 Anticipated Application Receipt Date: March 30, 1990

INTRODUCTION

The purpose of this announcement is to alert the scientific community to the proposed issuance of a Request for Applications (RFA) for international collaborations in AIDS research.

INQUIRIES

Because establishment of international collaboration anticipated to require several months of negotiations, applicants a commence discussions as soon as possible. Please direct ingu information to:

For Grants

Contracts

and

Amy R. Sheon, M.P.H. Epidemiology Branch Division of AIDS National Institute of Allergy and Infectious Dise 6003 Executive Blvd. Rockville, Maryland 20892 Telephone: (301) 496-6177

SCHOOL OF MEDICINE RESERVE UNIVERSIT

U.S. DEPARTMENT OF HEATTH

enalty for Private Use, \$300 The NIH Guide announces

natives and provides policy and

ional Institutes of Health Vol. 18, No. 31 September 8, 1989

trative information to indivind organizations who need to sept informed of opportunities anges in extra

Learning Objectives

- Understand context for a Community Health Dashboard
 - Case Western Reserve University
 - Other stakeholders
 - Data resources
- Understand strengths and limitations of aggregate EHR and hospital data for surveillance purposes
- Provide feedback on concept
- Increase awareness of how to participate



Session Outline

- Urban Health Initiative rationale & activities
- Community Health Data Dashboard concept and key partners
 - Health Alliance
 - Health Improvement Partnership-Cuyahoga
- Potential models
- Discuss potential for use of aggregate hospital & EHR data



Urban Health Initiative

Vision: Cuyahoga County is a place where all residents live, work, learn and play in safe, healthy, sustainable and prosperous communities.*

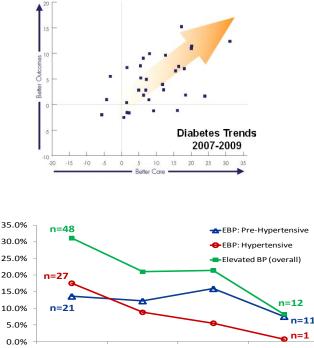
Mission: Foster improved health of community residents through strategically leveraging the research, teaching and services resources of Case Western Reserve University in partnership with community stakeholders.

*HIP-Cuyahoga



Urban Health Initiative Rationale

- Positive research results:
 - Better Health, Greater
 Cleveland: Better care & better outcomes
 - We Run This City: reduced BP in children
- We can do more

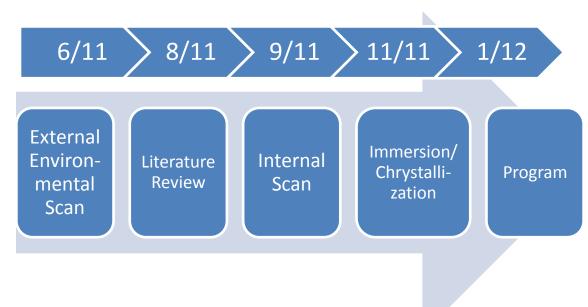


Yr 1 (pre-training) Yr 1 (post-race) Yr 2 (pre-training) Yr 2 (post-race



Creating UHI: The Plan

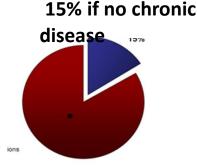
- Scan internal and external environment
- Literature Review
- Align needs and opportunities



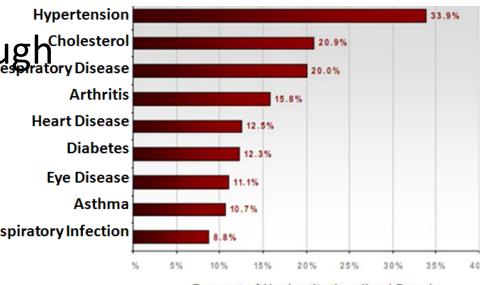


Literature Review

- Prevalent, chronic diseases drive health care costs.
- Can be prevented through Cholesterol Respiratory Disease
 behavior change.
- Care improvement and Diabetes Eye Disease patient activation for Asthma Chronic Respiratory Infection disease management.



Health Expenditures by Chronic Disease

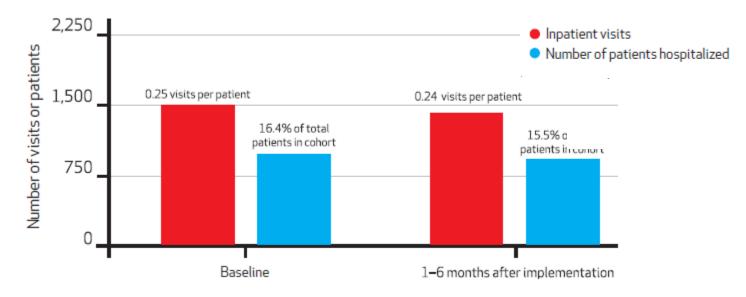


Percent of Noninstitutionalized People with Specific Chronic Conditions



Promising Interventions

Hospitalizations Of Patients With Diabetes, Asthma, Or Congestive Heart Failure, New York-Presbyterian Hospital, 2010-11



J. Emilio Carrillo, Nida Shabbir Shekhani, Emme Levin Deland, Elaine M. Fleck, Jaclyn Mucaria, Robert Guimento, Steven Kaplan, William A. Polf, Victor A. Carrillo, Herbert Pardes and Steven J. Corwin A Regional Health Collaborative Formed By NewYork-Presbyterian Aims To Improve The Health Of A Largely Hispanic Community Health Affairs, 30, no.10 (2011):1955-1964

doi: 10.1377/hlthaff.2011.0635

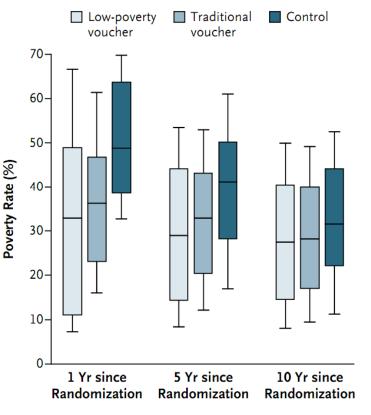


Promising Interventions

The NEW ENGLAND JOURNAL of MEDICINE

Neighborhoods, Obesity, and Diabetes — A Randomized Social Experiment

"The opportunity to move from a neighborhood with a high level of poverty to one with a lower level of poverty was associated with modest but potentially important reductions...in extreme obesity and diabetes. The mechanisms...remain unclear..."

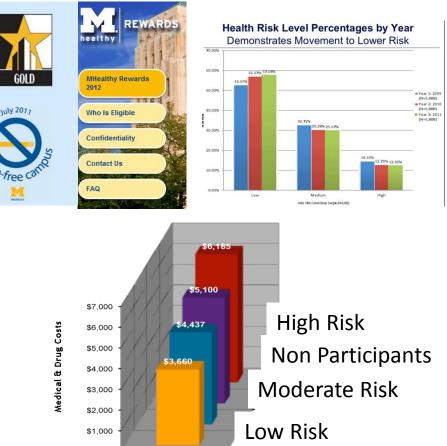


N Engl J Med 2011;365:1509-19.



Promising Interventions

- Evidence-based worksite wellness can show strong ROI
- Spreading in local area
- Smoking cessation is priority



Mhealthy Leadership Update http://www.hr.umich.edu/mhealthy/



New Surveillance Opportunities

- Surveillance and monitoring are being used to improve health
- Approach integrates social, behavioral, & access issues
- Strong local data are available

The Community as a Learning System: Using Local Data To Improve Local Health

> A Report of the National Committee on Vital Health Statistics



.S. DEPARTMENT OF HEALTH ND HUMAN SERVICES



HIP-Cuyahoga & Health Equity

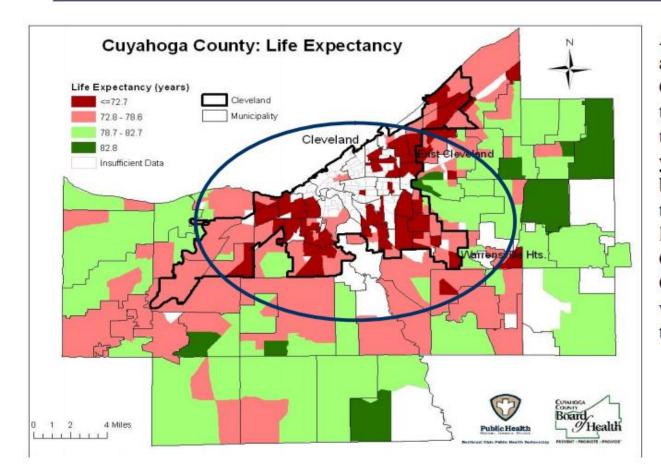
- According to the RWJ County Health Rankings, Cuyahoga County is ranked 69th (of 88 Ohio counties) in overall health outcomes
 - 81st in Physical Environment
 - **78th** in Morbidity
 - 67th in Social & Economic Factors
 - 57th in Mortality

http://www.countyhealthrankings.org/ohio/cuyahoga





HIP-Cuyahoga & Health Equity



A recent data analysis by CCBH revealed that there is a **twenty-four (24) year difference** between those that live the longest in Cuyahoga County and those whose lives are the shortest







- Improved research capacity through CTSC
- Growing institutional cooperation

MetroHealth







Department of eterans Affairs



Health Professional Education: SOM

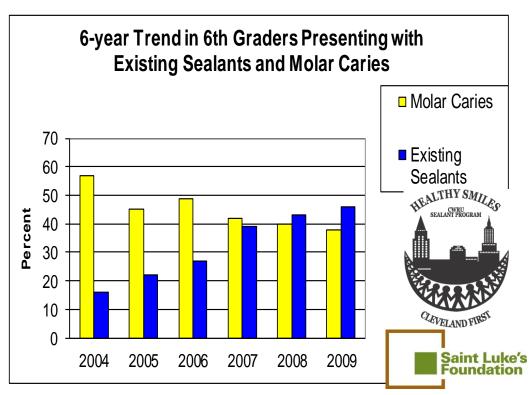
- Block 1
- Urban Pathway
- MPH Program
- Student-Run Free Clinic
- House Calls
- Interprofessional Training





School of Dental Medicine: Healthy Smiles Sealant Program:

- increasing sealants
- decreasing cavities
- Public Health dentistry program





- FPB Nurses in Schools benefits:
 - Trainees
 - Schools
 - Students
 - Families
 - Local & state policy-makers





Community Engagement Resources:

- Expertise in health promotion and prevention
- Food availability and physical activity
- Methods of community engagement
- Network of Community Advisors
- Risk assessment and surveillance
- Intervention & evaluation



Prevention Research Center for Healthy Neighborhoods at Cas- Western Berner



to Change Togethe





CASE WESTERN RESERVE

L SCHOOL OF APPLIED SOCIAL SCIENCES

ROPERTY DAT

Data and partnerships around social determinants of health

-Policy focused

–Engaged partners





POLICY



BRIDGE



SOCIAL AND ECONOMIC DATA



Owner: John Smith Address: 742 Evergreen Ter.

Build. Sq. Feet: 1,524 Prop. Sq. Feet: 10,378 Delinquent Taxes: \$0 Market Value: \$171,000

Trend Analysis Crime Housing

Mobility Vital Statistics

Maltreatment

Transportation

Survey Poverty Charting

Neighborhoods Mapping Research Employment Region Education Census Public Assistance

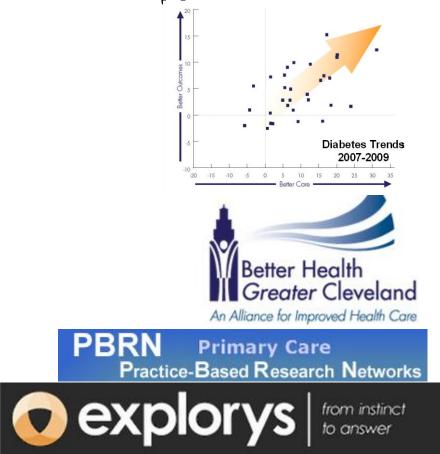
Births Mortgage Lending

Aggregate



Quality Improvement & Clinical data

- Clinical quality improvement network
- Regional Extension Center REC) signed up 1400+ providers for EHRs
- Practice-based research network
- Aggregation of clinical data
- Health Informatics and Comparative Effectiveness Research





Environmental Factors

Significant changes in local employment environment due to aggressive employee wellness efforts elsewhere

Get healthy or pay higher insurance rates, Cleveland Clinic employees are told

Published: Sunday, February 12, 2012, 9:00 PM Updated: Tuesday



By Evelyn Theiss, The Plain Dealer



DRIVING EMPLOYEE WELLNESS HOW CLEVELAND CLINIC CURTAILED EMPLOYEE HEALTH COSTS

Topics: Employee Engagement, Workforce, Health and Wellness, Benefits, Labor Expense, Cost Management, Margin Performance, Finance

Save in Library

October 21, 2011

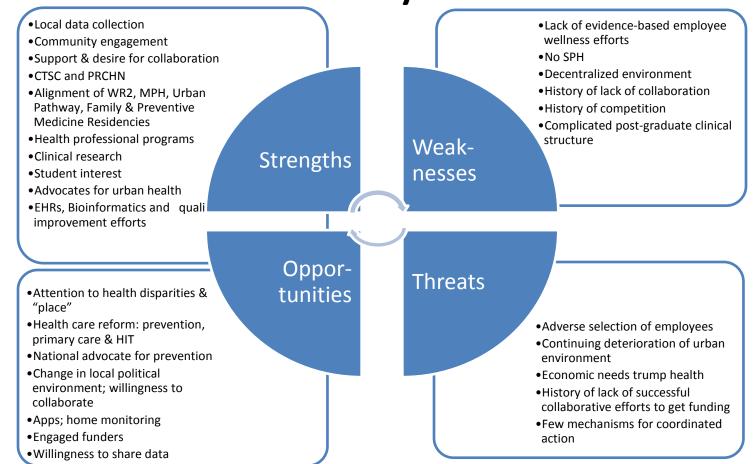


Hiring Non-Tobacco User Policy:

University Hospitals continually strives to provide the healthiest environment for our employees, physicians and patients. In kee mission, effective January 1, 2012, UH will no longer hire extern



SWOT Analysis



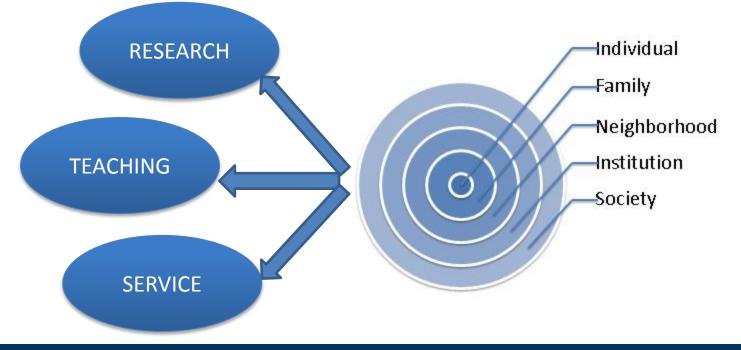


Interna

Externa

Strategies to Increase Impact:

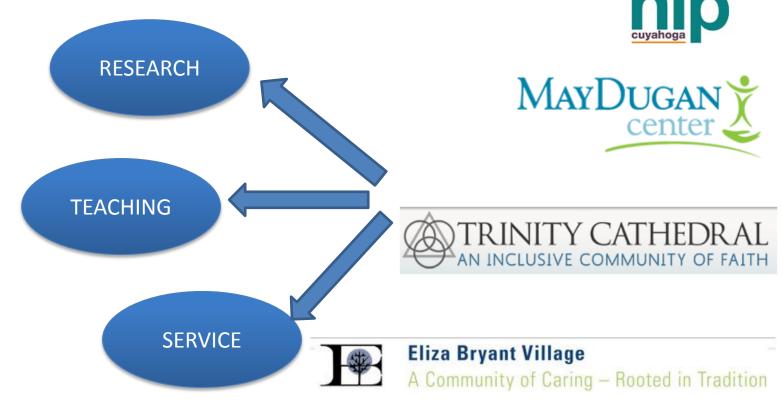
1) Infuse socio-ecologic awareness into research, teaching and service





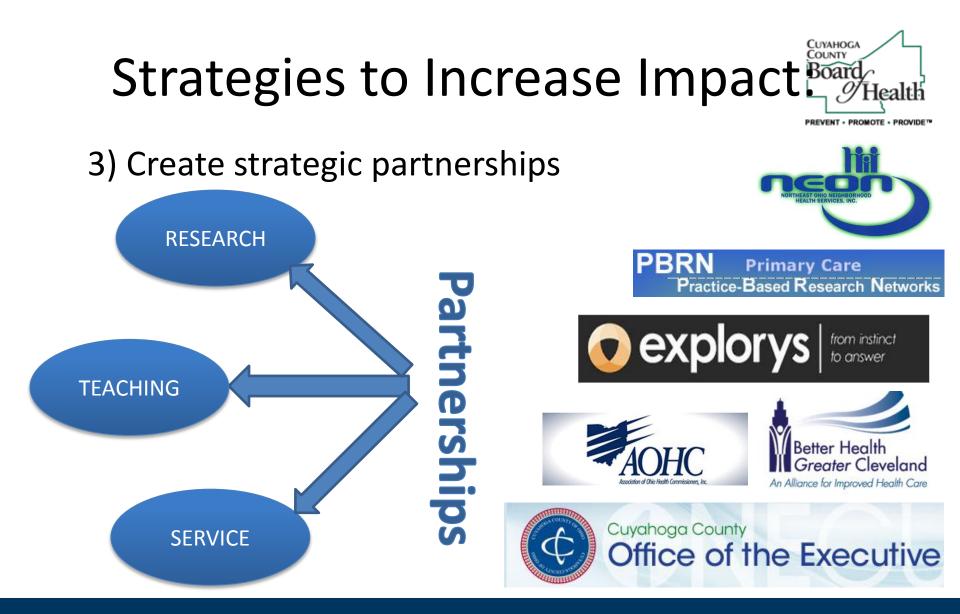
Strategies to Increase Impact:

2) Engage Community Perspectives

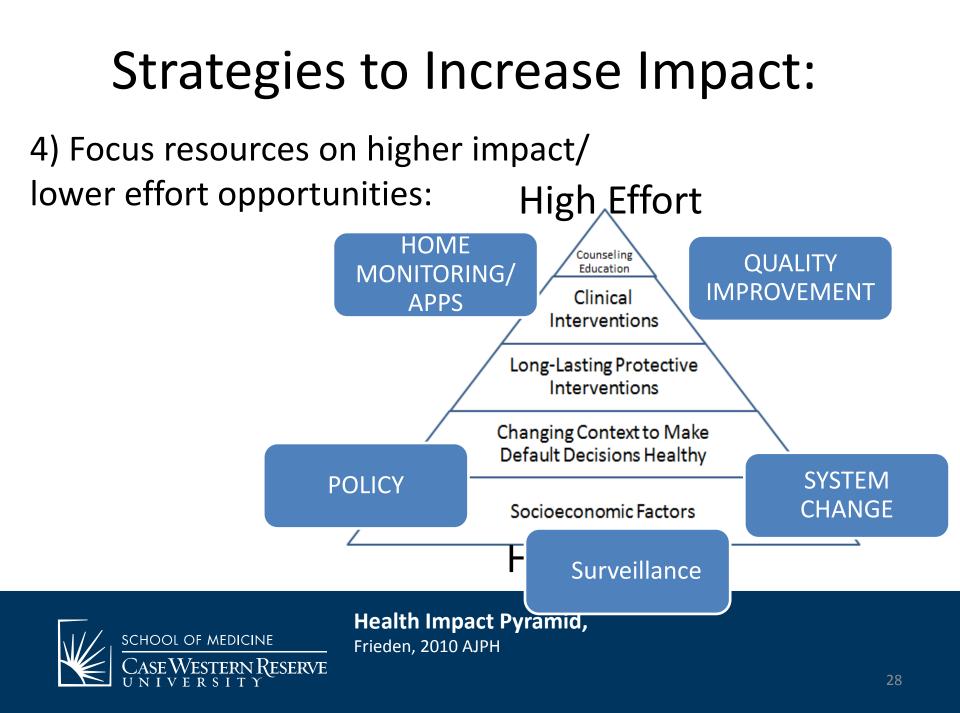




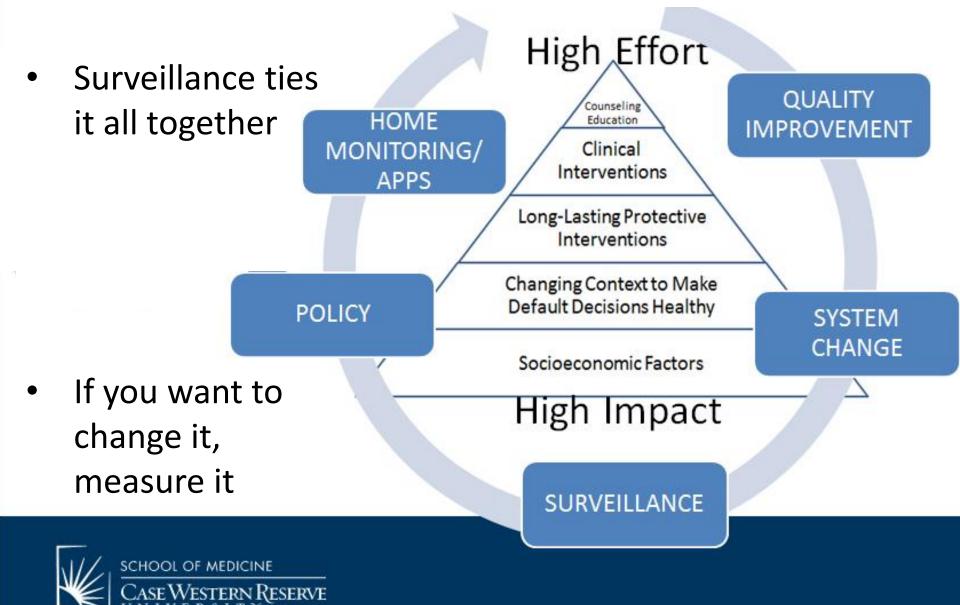
EALTH IMPROVEMENT PARTNERS







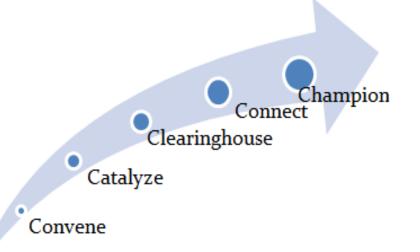
Strategies to Increase Impact:





Initial Activities

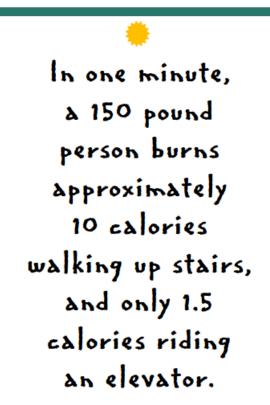
- Coordinating Committee
- Internal Support
- Pilot Grant Program (CTSC)
- Partnership Showcases
- Program Inventory
- Campus Wellness Initiative
- County Health Dashboard





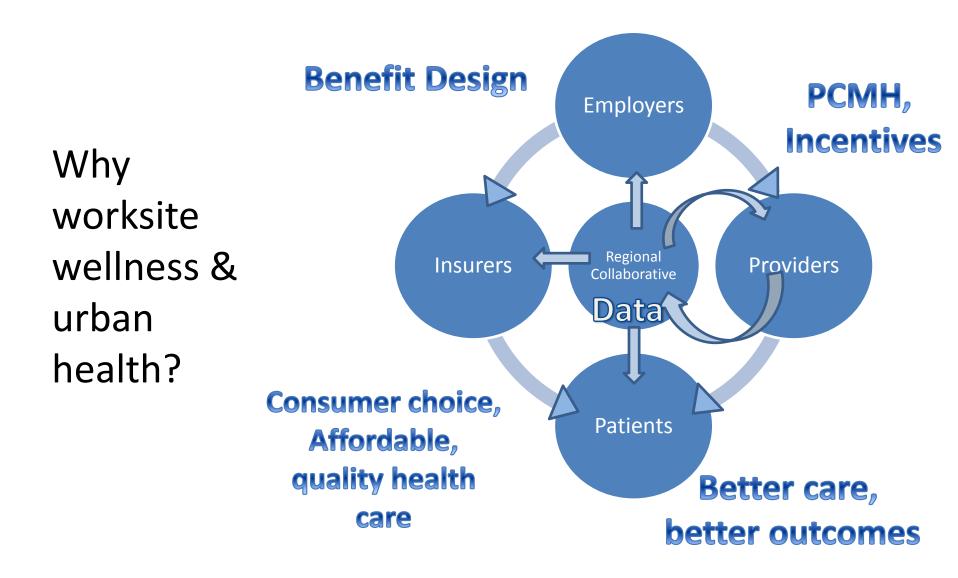
Case Comprehensive Workplace Wellness Rationale:

- Needed
- Possible
- Strategic
 - Impact on employees+ families+dependents
 - CWRU issues mirror community
 - Opportunity to connect with County initiative
 - Responsive to broader environmental trends



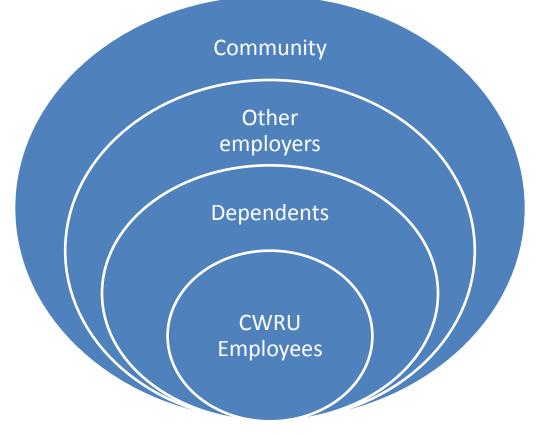








Health Alliance Leverages Impact of CWRU Worksite Wellness





Key Strategic Partnership: County Health Alliance

Cuyahoga County Health Alliance

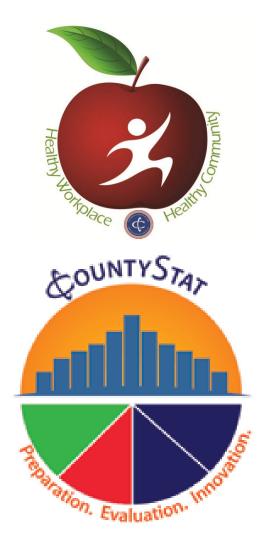
- Address health improvement through regional collaboration, innovation and accountability
- Pilot in 10 communities
- Focus on worksite wellness (Borawski)
- Data Dashboard (Sheon)





Community Health Dashboard

- Began as effort to evaluate impact of Health Alliance on population health
- Connect with County Stat performance measures





County Health Dashboard

- Connects with existing data, and
- Connects with required community needs
 - assessments

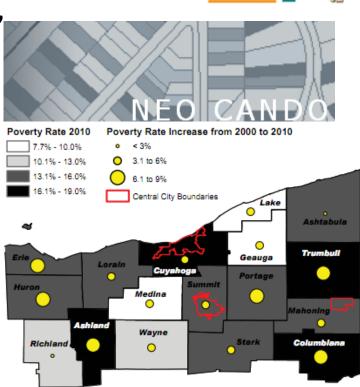
How Nonprofit Hospitals Must Prepare for IRS Changes

🖙 Comment 🛛 Email 📇 Print 🔊 RSS 🧲 ShareThis

Karen Minich-Pourshadi, for HealthLeaders Media, January 31, 2011

It shouldn't come as any surprise to healthcare financial leaders that when the Patient Protection and Affordable Care Act passed last year, legislators managed to work in a few provisions about requirements for

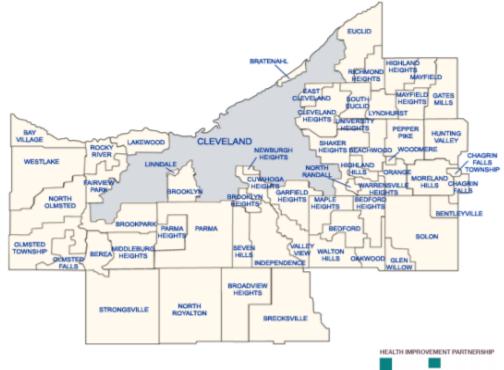




HEALTH IMPROVEMENT PARTNERSHIP

What is HIP-Cuyahoga?

HIP-Cuyahoga is a collaborative, countywide planning process focused on developing a comprehensive guide for improving the health status & quality of life for all people who live, work, learn, and play in Cuyahoga County, OH



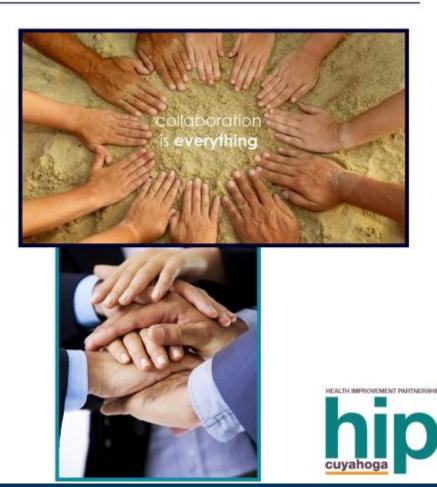




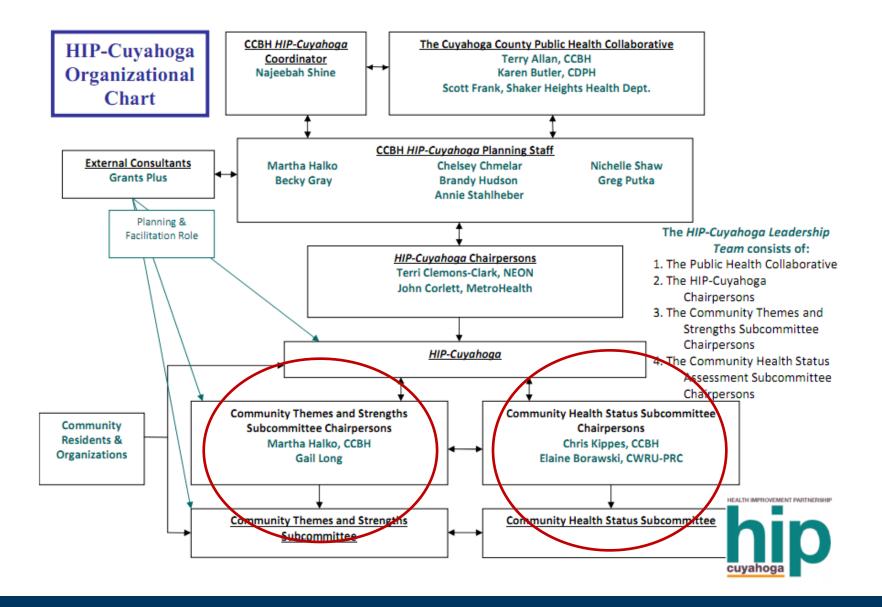
What is HIP-Cuyahoga?

The Players...

- Public Health Collaborative
- □ Core Team (Staff)
- □ Consultants
- Roughly 40
 Community Partner
 Organizations









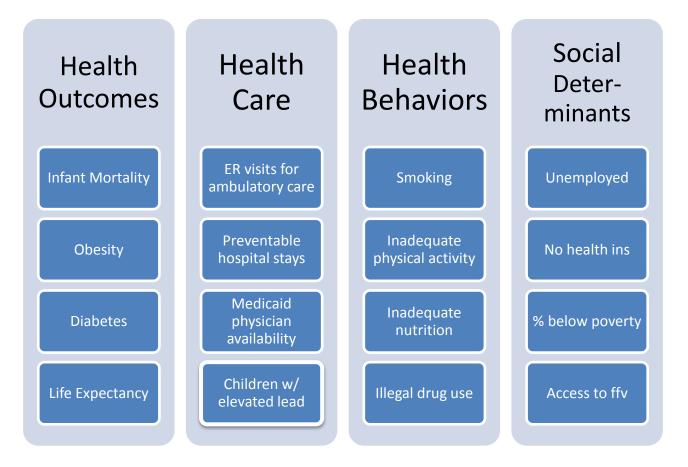
Preliminary Analysis for Cuyahoga County

- Top FIVE Health Issues
 - 1. Alcohol and Drug Abuse (44%)
 - 2. Overweight and obesity (41%)
 - 3. Mental health issues (31%)
 - 4. Violence (30%)
 - 5. Aging Issues (29%)
 - 5. Tobacco use (29%)

Trapnl, HIP-C presentation 3/12



CHD: What it is





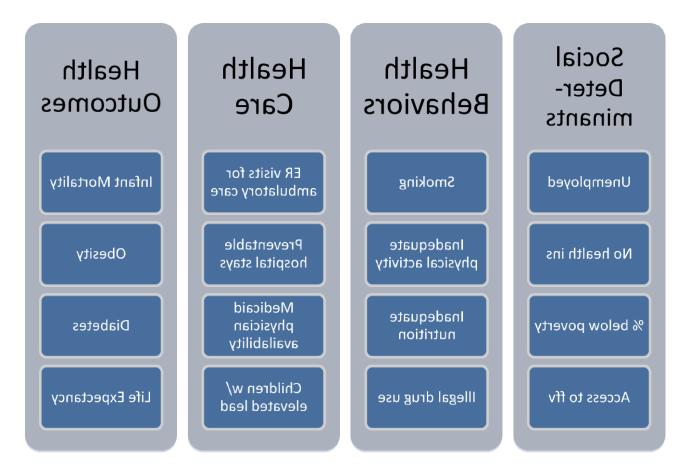
Main features

- Indicators prioritized by stakeholders
- Based on standard measures
 - County Health Rankings
- Routine updates
- Some demographic & geographic breakdowns
- Benchmarked
 - Healthy People 2020

Indicator	Potential Data Source (e.g. URL, contact person, etc)	Smallest Geographic Level Available
Average life	www.countyhealthranking	
expectancy	<u>s.org</u>	county
Medicaid physician		
availability: ratio	HRSA - HPSAs, MUAs	census tract
Access to healthy		
food	BRFSS through PRCN	
Proportion of		
persons satisfied		
with the quality of		
life in the		
community	BRFSS through PRCN	

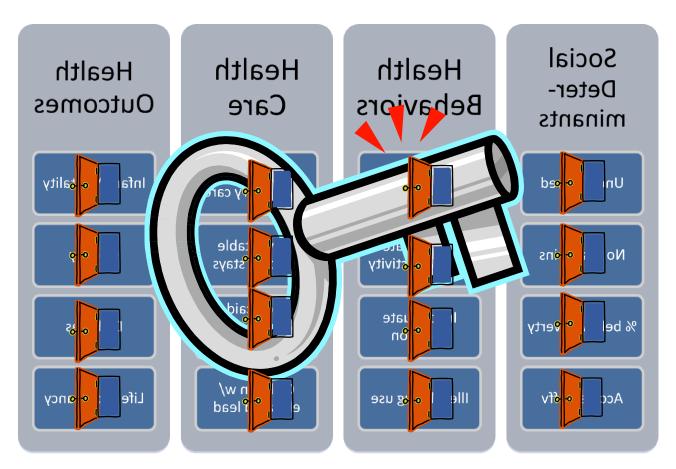


CHD: How it works



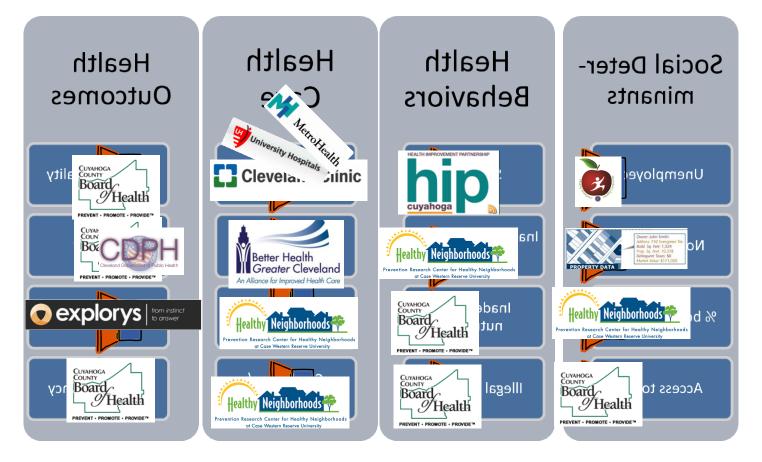


CHD: How it works



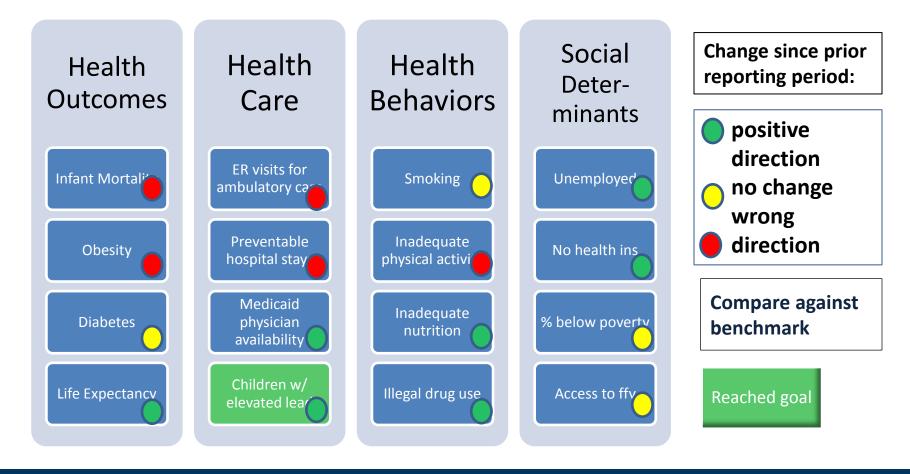


CHD: Where data come from





CHD: How it's used





Modeled on Existing Dashboards

- Include disparities another trends
 http://www.ewashtenaw.org/government/departments
 http://www.ewashtenaw.org/government/departments
 http://www.ewashtenaw.org/government/departments
- Include community resources
- Michigan Governmenttp://www.healthycommunitiesinstitute.com/
- Healthy Communities
 Network
 http://www.whatcomcounts.org/whatcom/index.php
- HIP-Washtenaw



Questions for discussion

- What are the biggest cost drivers in inpatient and outpatient care?
 - Of public funds?
 - What are the best indicators?
 - Health outcomes, treatment, costs
 - What are the best data sources?
- Are there indicators of health care quality to include?
- How to show we're making a difference?



Deeper Dive on Clinical Data

- What are the biggest cost drivers in inpatient and outpatient care?
 - What are the best indicators?
 - Health outcomes, treatment, costs, appropriate use
 - What data are already being tracked?
- Are there indicators of health care quality to include?
- How to show we're making a difference?





Ohio Live Births: Trimester of Entry into Prenatal Care By Year, County

		2008	
		Count	%
CUYAHOGA F	rst Trimester	8,978	65.9
S	econd Trimester	3,513	25.8
т	nird Trimester	935	6.9
N	one	193	1.4
Ohio.gov	Department	2,630	16.2



Thank You!

Join Data Dashboard Steering Group!

Urban Health Initiative CWRU SOM Office: 216-245-CWRU (2978) <u>urbanhealth@case.edu</u> <u>Urbanhealth.case.edu</u>

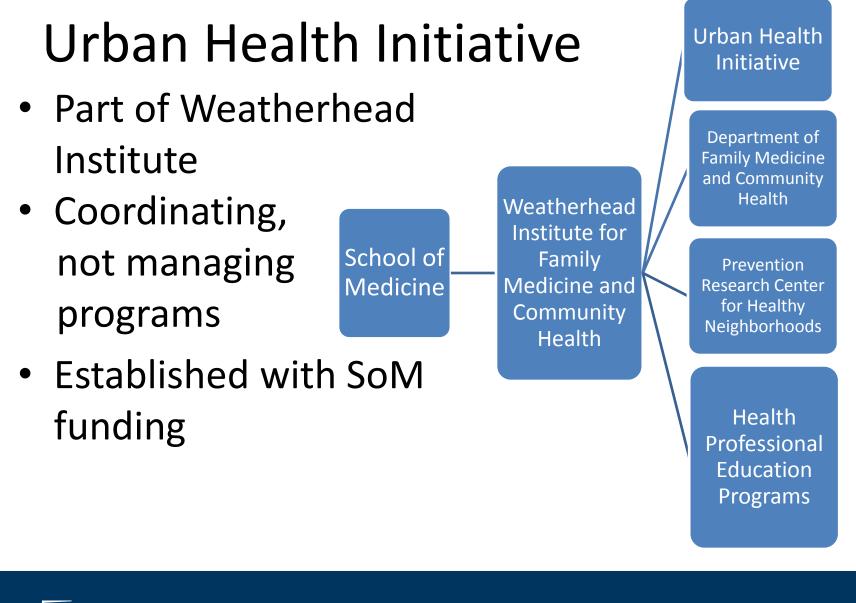






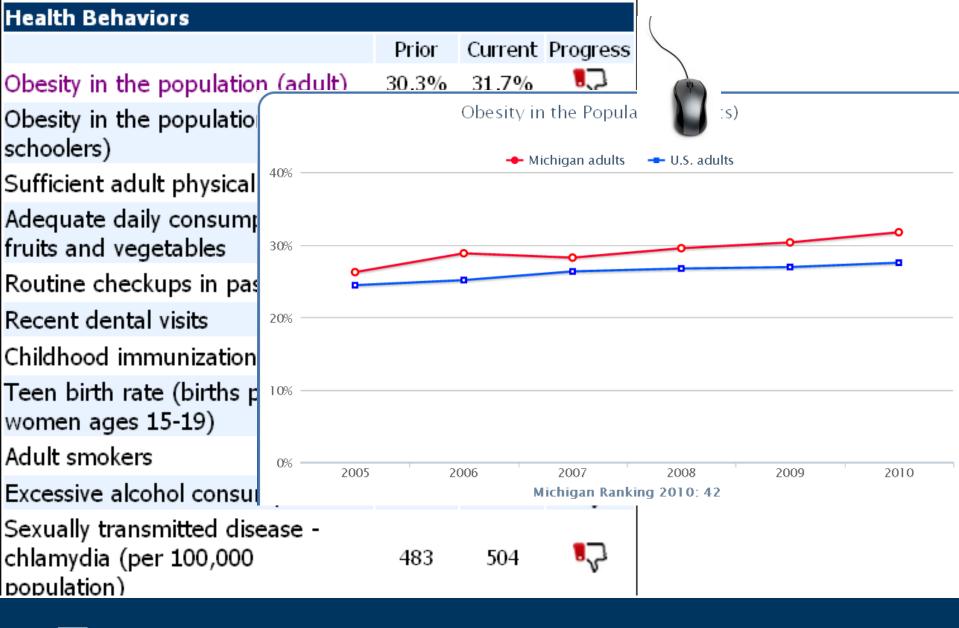
EXTRA SLIDES FOLLOW





L 228, 462		Access to Health Care					
24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8.73%		Prior*	Current*	Progress		
MI Dashboard	7.70N	Uninsured adults	12.7%	13%	5		
Education Dashboard	MICHIGAN.GOV	Primary care physicians (per 100,000 population)	115.2	117.8	<mark>د.</mark>		
Health & Wellness Dashboard	Michigan's Official Web Site	Veterans enrolled in Veterans Administration health care	26.5%	30.1%	<u></u>		
		Health Indicators					
Infrastructure			Prie	or Current	Progress		
Dashboard		Average life expectancy at birth Leading causes of death	77.	3 77.4	ئ		
Talent Dashboard		Preventable hospital stays (per 1000 Medicare enrollees)	73.	4 74.2	<u>。</u>		
Financial Health		Infant mortality (per 1,000 births)	7.6	5 7.7	5		
Measuring Michigan's Perf	formance	Attempted Suicide and self-inflicted injury	5,28	38 5,483	8 2		
Performance Key:		Healthy Communities	Prior	Current	Progress		
Performance improving = Performance staying about the same Performance declining		Percentage of schools selling healthy foods	-	33%	Frogress		
		Food stamp sales at Michigan's farmers markets	297,078	\$705 <i>,</i> 969	ئ		







ESERVE

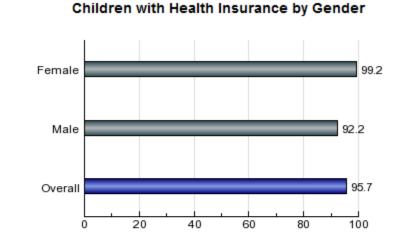
- Considering offthe-shelf software
- Standard metrics
- Progress toward goals

Health				
Access to Health Services				
Adults with Health Insurance	Comparison: WA Counties			High School
 Adults with Personal Healthcare Provider 	Comparison: WA Counties		NEW	Degree Incidence Rate
Adults with Unmet Medical Need	Comparison: WA Counties			See all indicators
Physicians per 1000 Population	Comparison: Prior Value	$ \rightarrow $		Did You Know?
Cancer				According to the Healthy
All Cancer Incidence Rate	Comparison: WA Counties		R	Youth Survey in 2006 in Whatcom County, 16.4% of 8th graders had consumed
Bladder Cancer Incidence Rate	Comparison: WA counties			alcohol in the previous 30 days.
 Breast Cancer Incidence Rate 	Comparison: WA Counties			Air Quality Index
Cervical Cancer Incidence Rate	Comparison: WA counties		100	Bellingham Current Conditions
Colon Cancer Screening	Comparison: WA Counties			
Colorectal Cancer Incidence Rate	Comparison: WA counties		;	Good Pollutant: Particles (PM2.5)
Liver and Bile Duct Cancer Incidence Rate	Comparison: WA counties		mall orange,	Observed at: 03/01/12 5:00 PST
Lung and Bronchus Cancer Incidence Rate	Comparison: WA Counties		r at filled d learn	<u>Air quality indicator</u> Detailed conditions
 Mammogram History 	Comparison: WA Counties			Provided by
Melanoma Incidence Rate	Comparison: WA counties			
Non-Hodgkin Lymphoma Incidence Rate	Comparison: WA counties			Quotes
 Oral Cavity and Pharynx Cancer Incidence Rate 	Comparison: WA counties			"This is a valuable community tool. This website can present
Pap Test History	Comparison: WA Counties			information in a way that engages people and can
Prostate Cancer Incidence Rate	Comparison: WA Counties			inspire them to informed action."
Diabetes				Regina Delahunt, Director,
 Adults with Diabetes 	Comparison: WA Counties			Whatcom County Health Department (2006)
Age-Adjusted Death Rate due to Diabetes	Comparison: WA Counties			
Exercise, Nutrition, & Weight				
10th Graders who are Overweight	Comparison: WA Counties			



• Disparities

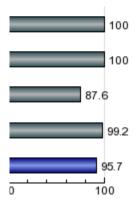
 Promising practices



Relay for Life - American Cancer Society

Category	Health / Cancer
Contact	Website: http://relay.acsevents.org/site/TR/RelayForLife/RelayForL
Organization Description	Relay for Life - 21 years of this race in our community; Relay For Life® signature event is a fun-filled overnight experience designed to bring together those who have been touched by cancer. People from within the community gather to celebrate survivors, remember those lost to cancer, and to fight back against this disease. Participants raise money and awareness to support the American Cancer Society in its lifesaving mission to eliminate cancer as a major health issue. Teams of people gather at schools, fairgrounds, or parks and take turns walking or running laps. The events are held overnight to represent the fact that cancer never sleeps. Through the survivors' lap and the luminaria ceremony, we honor the people who have faced cancer first hand, and we remember those who have been lost to this disease.

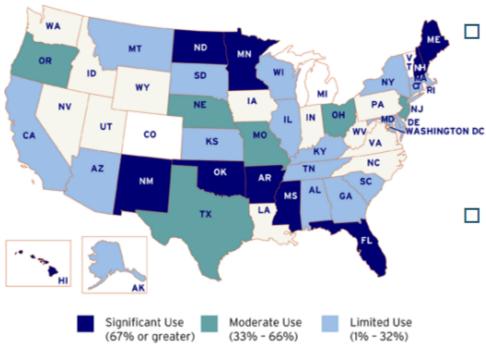
by Race/Ethnicity



Return to Local Resources Home



The Framework - MAPP



MAPP has been identified as a best practice for strategic community health improvement planning efforts

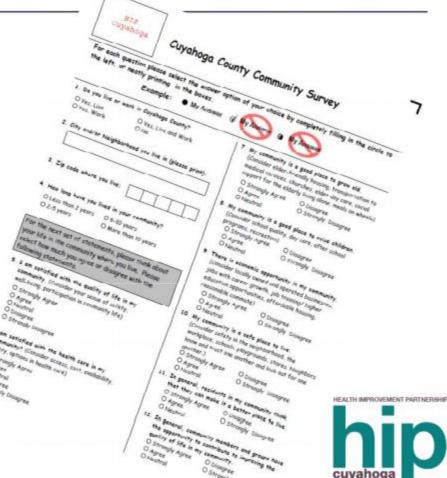
Hundreds of communities across the U.S. have used this model since its introduction in 2001

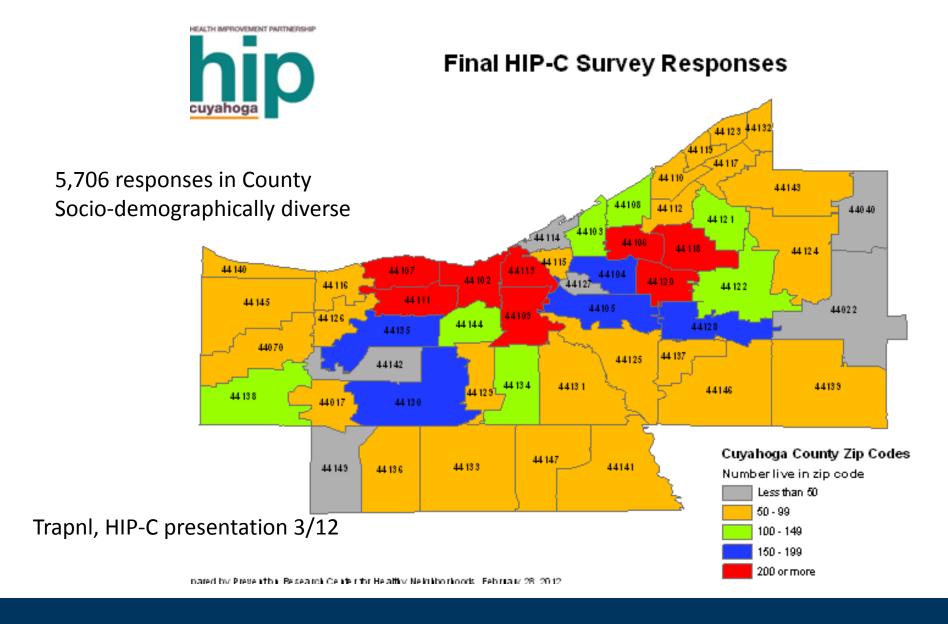


http://www.naccho.org/topics/infrastructure/MAPP/map/index.cfm

Accomplishments to Date (cont'd)

- Initial prioritization of health indicators (CHSA)
- Development of a quality of life (QOL) survey for community residents (CTSA)
 - Preliminary data just reported







Rank	What are the strengths of your community?	What could improve your community?
1	Responsive police, fire and rescue; Access to parks and recreation (44%)	Good job opportunities (52%)
2		Quality education and schools (37%)
3	Walkable, bikeable community (41%)	Safe neighborhoods (35%)
4	Affordable Housing (32%)	Programs, activities, support for youth in non-school hours (35%)
5	Quality education and schools (31%)	Low violence (27%)

Trapnl, HIP-C presentation 3/12

