Ijeoma Nnodim Opara, MD, FAAP, FAIM Co-Investigator, ACHIEVE-GREATER Asst. Professor, Internal Medicine-Pediatrics Department of Internal Medicine Wayne State University School of Medicine

Wayne Health

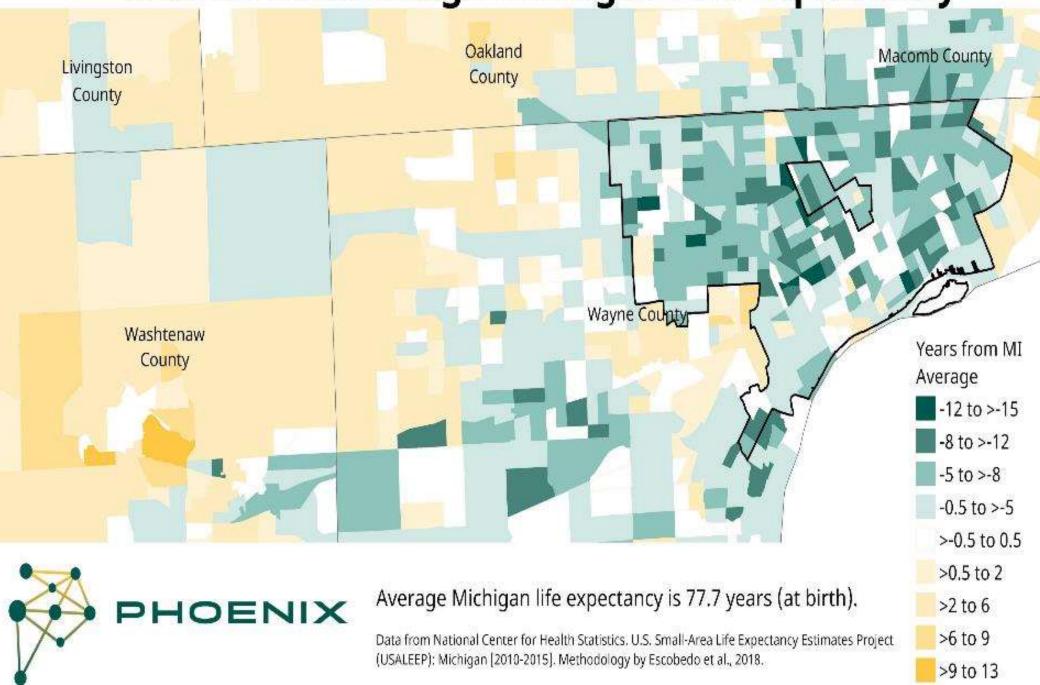


WHY?

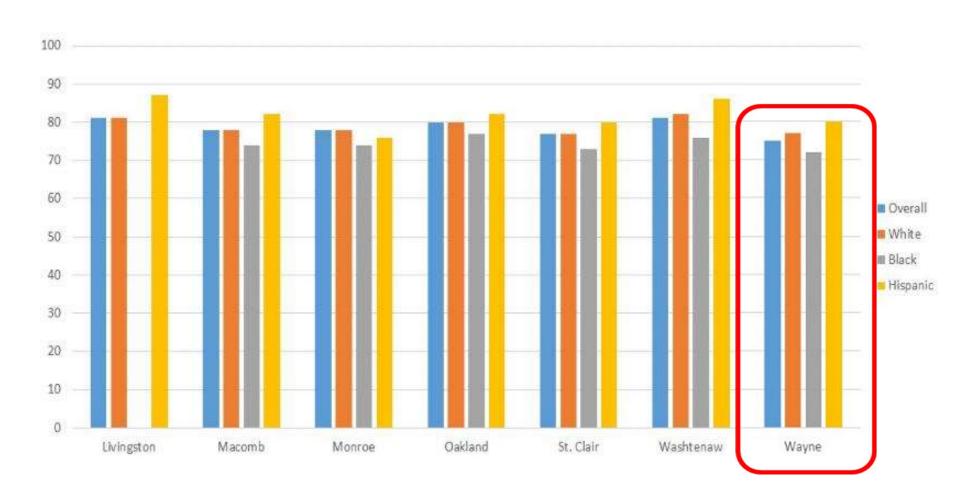




Years from Average Michigan Life Expectancy



Overall Life Expectancy in Southeastern Michigan 2019





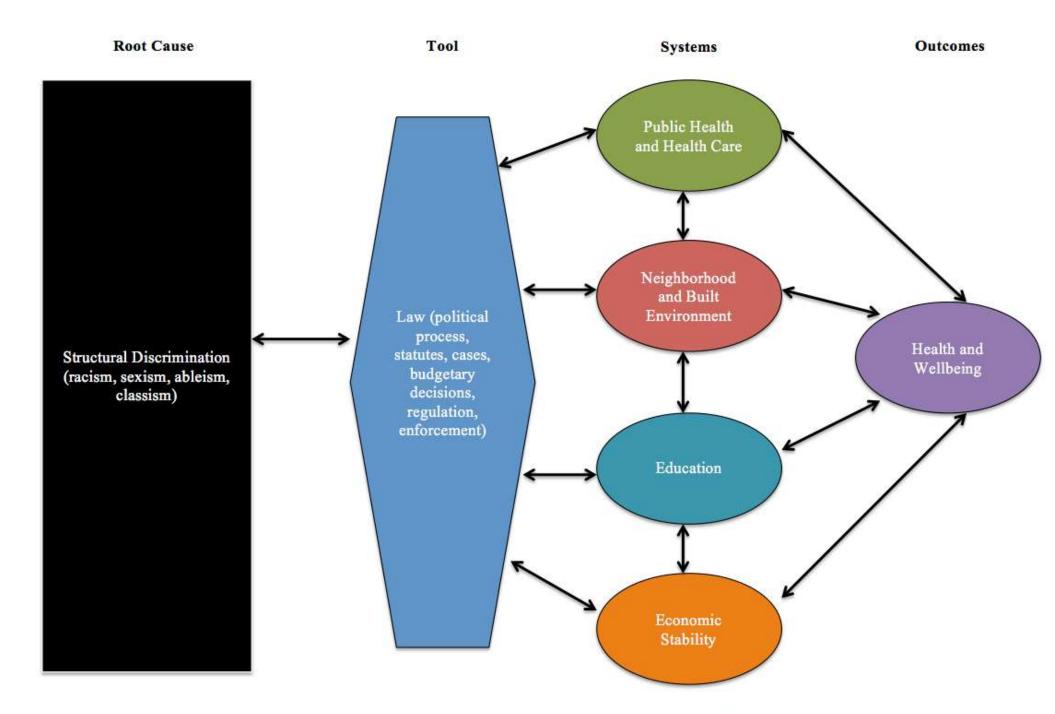


Black Detroiters are put at risk of dying prematurely. Preventable.

Urgont

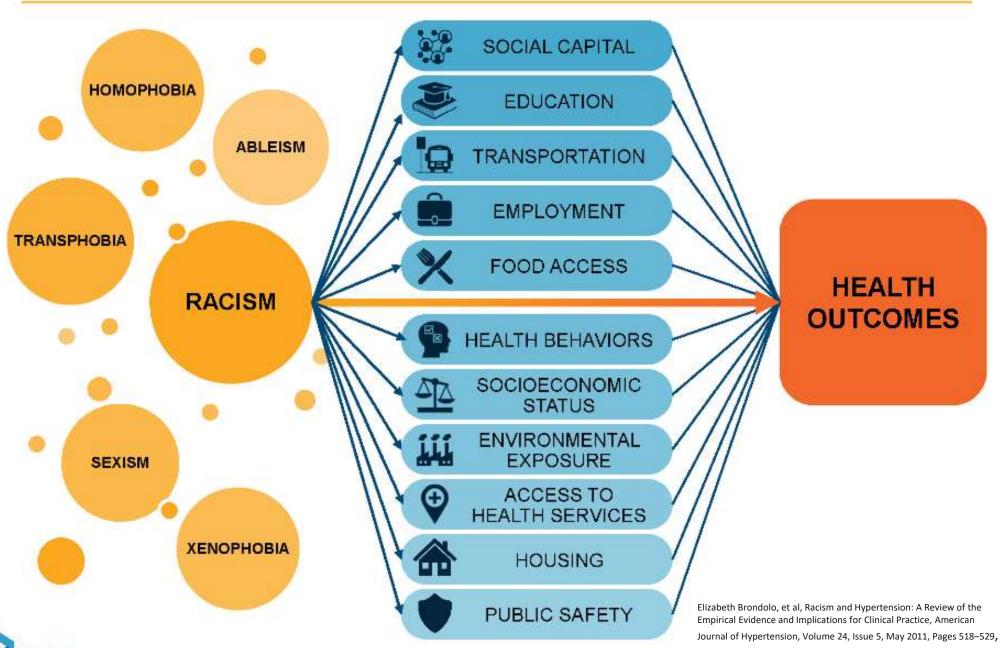




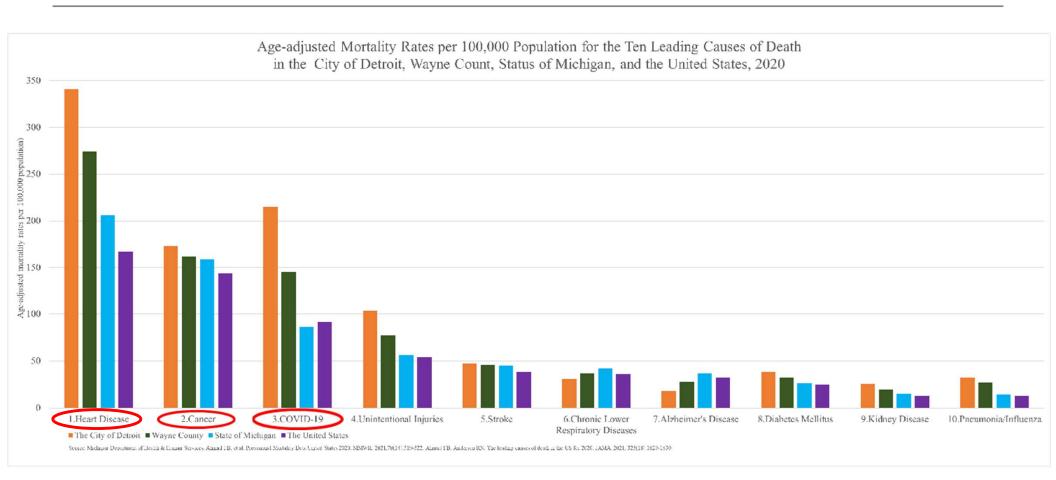


Revised SDOH Framework created by Ruqaiijah Yearby (2020)

Racism, Among Many Structural Inequities, Negatively Impacts Health Outcomes and Other Social Determinants of Health







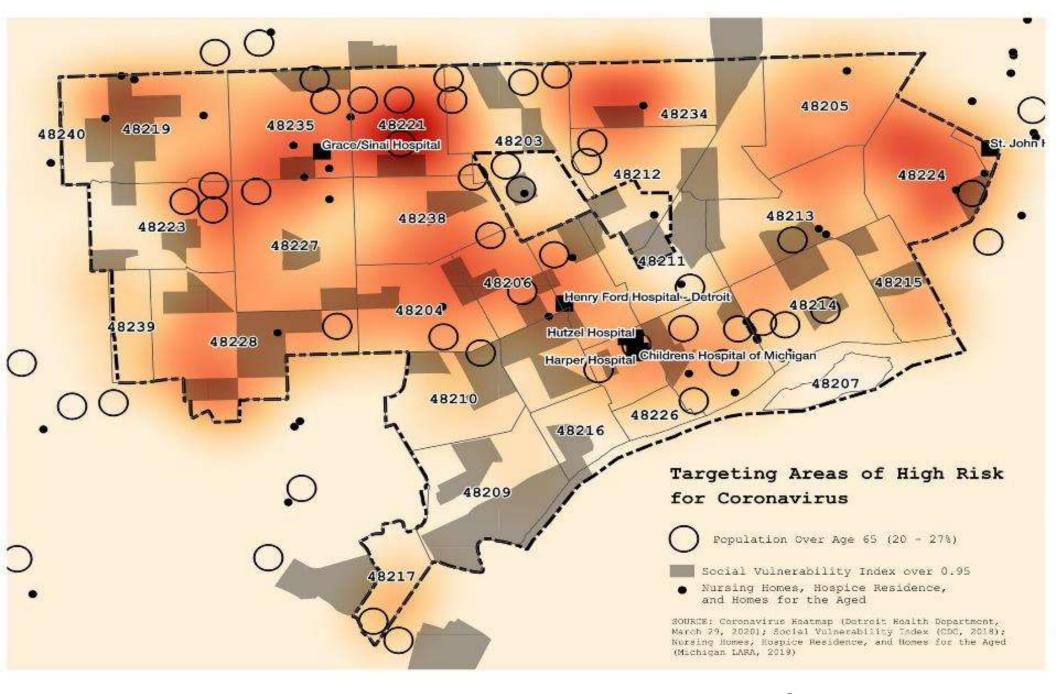






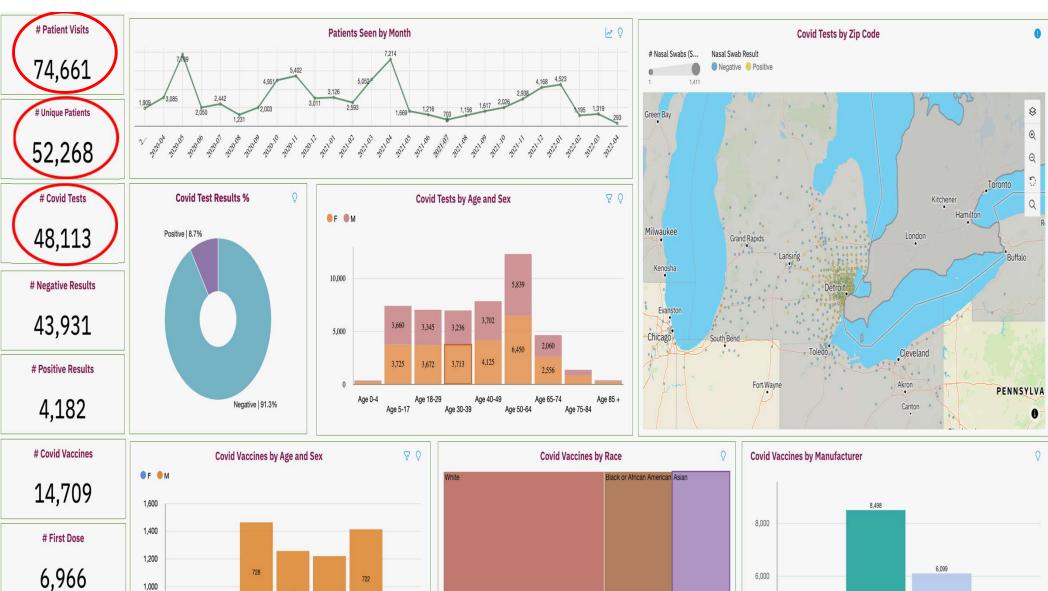


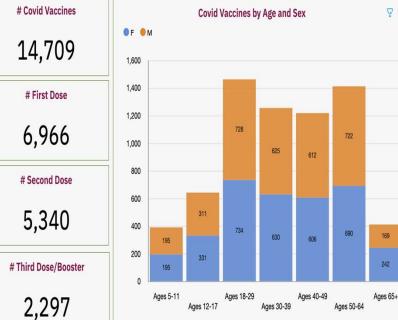


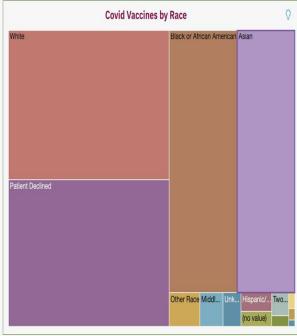


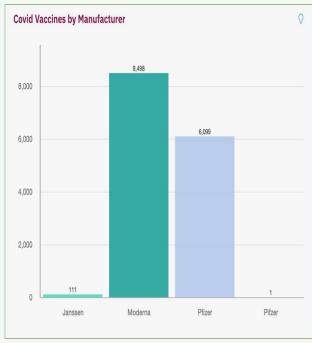












PLOS ONE



From pandemic response to portable population health: A formative evaluation of the Detroit mobile health unit program

Phillip Levy¹, Erin McGlynn₀^{1*}, Alex B. Hill₀¹, Liying Zhang², Steven J. Korzeniewski², Bethany Foster¹, Jasmine Criswell₀³, Caitlin O'Brien³, Katee Dawood³, Lauren Baird³, Charles J. Shanley⁴

1 Department of Emergency Medicine, Wayne State University School of Medicine, Detroit, Michigan, United States of America, 2 Department of Family Medicine and Public Health Sciences, Wayne State University School of Medicine, Detroit, Michigan, United States of America, 3 Wayne Health, Wayne State University, Detroit, Michigan, United States of America, 4 Department of Surgery, Wayne State University School of Medicine, Detroit, Michigan, United States of America



RESEARCH LETTER

Utilizing Mobile Health Units for Mass Hypertension Screening in Socially Vulnerable Communities Across Detroit

Robert D. Brook, Katee Dawood, Bethany Foster, Randi M. Foust, Catherine Gaughan, Paul Kurian, Brian Reed, Andrea L. Jones, Barbara Vernon, Phillip D. Levy

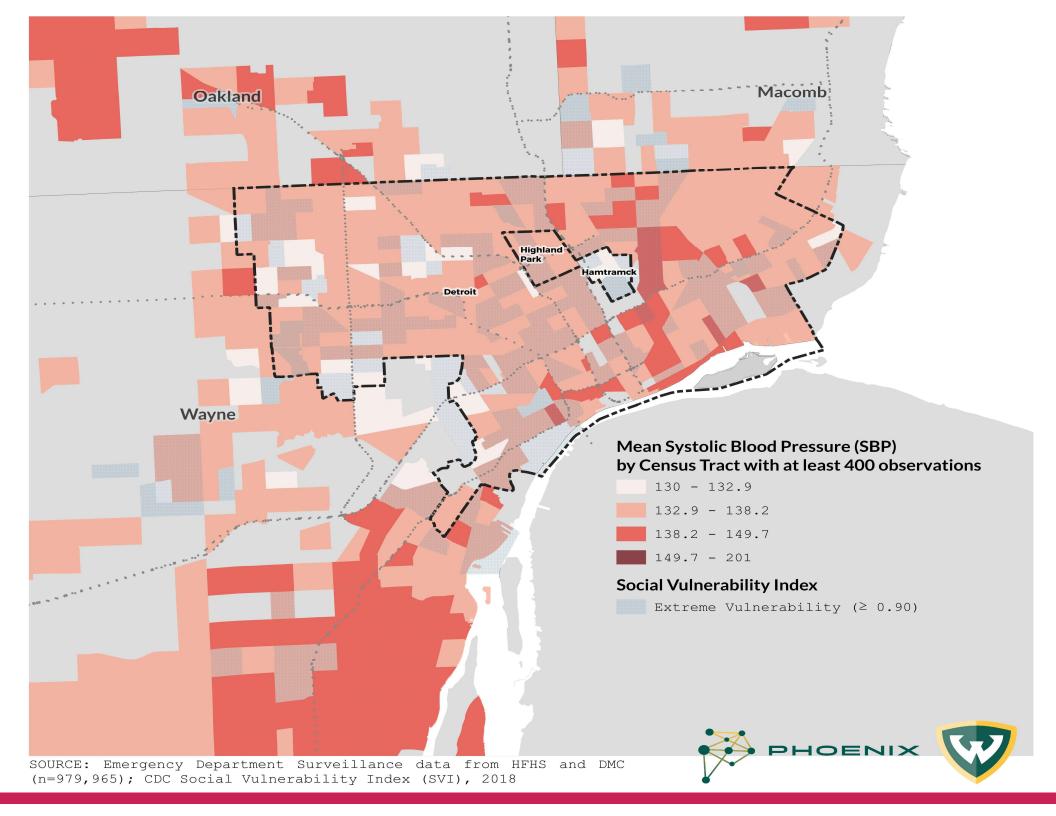




Categories	Number (%)	BP* (mm Hg)		
All patients	3,039	126.9 ± 23.1 / 76.8 ± 14.7		
Normal BP	1136 (37%)	105.5 ± 9.28 / 65.0 ± 8.34		
Systolic BP <120 and diastolic BP <80 mm Hg	1100 (01 70)	100.0 2 0.20 7 00.0 2 0.01		
High BP Categories**				
Elevated BP	306 (10%)	124.2 ± 2.8 / 70.1 ± 6.44		
Systolic BP 120-129 and diastolic BP <80 mm Hg	(1070)			
Hypertension categories***	1597 (53%)	142.7 ± 19.39 / 86.4 ± 12.43		
Systolic BP ≥130 and/or diastolic BP ≥80 mm Hg	1007 (0070)	112.12 10.00 / 00.12 12.10		
Stage I	629 (21%)	127.7 ± 8.73 / 80.3 ± 6.84		
Systolic BP 130-139 and/or diastolic BP 80-89 mm Hg	020 (2170)			
Stage II	968 (32%)	152.4 ± 18.15 / 90.4 ± 13.6		
Systolic BP ≥140 and/or diastolic BP ≥90 mm Hg	000 (0270)			

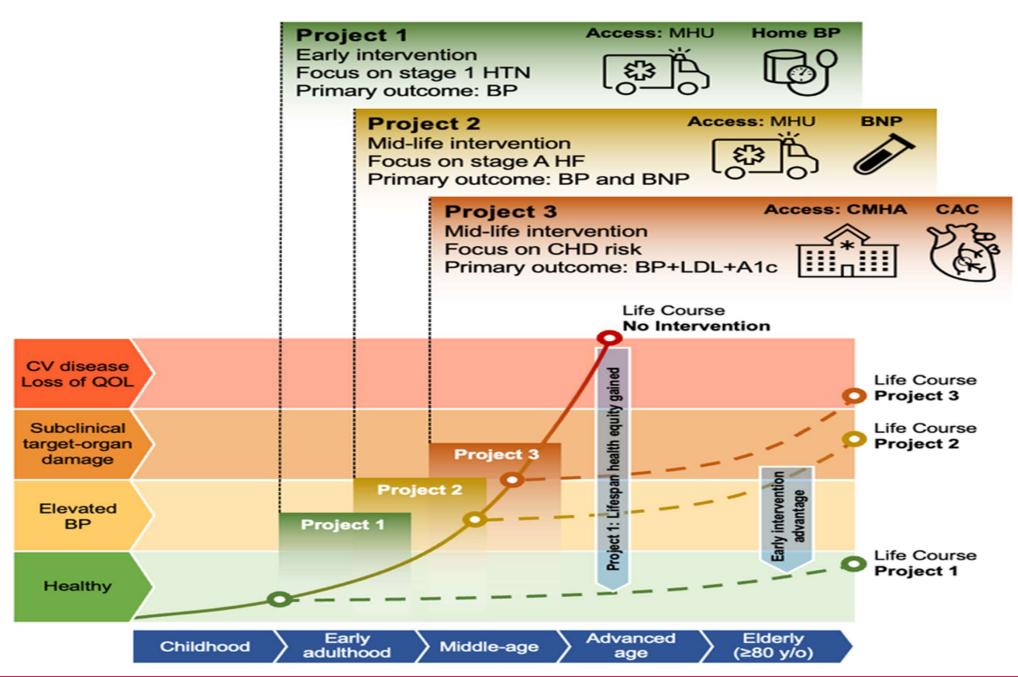


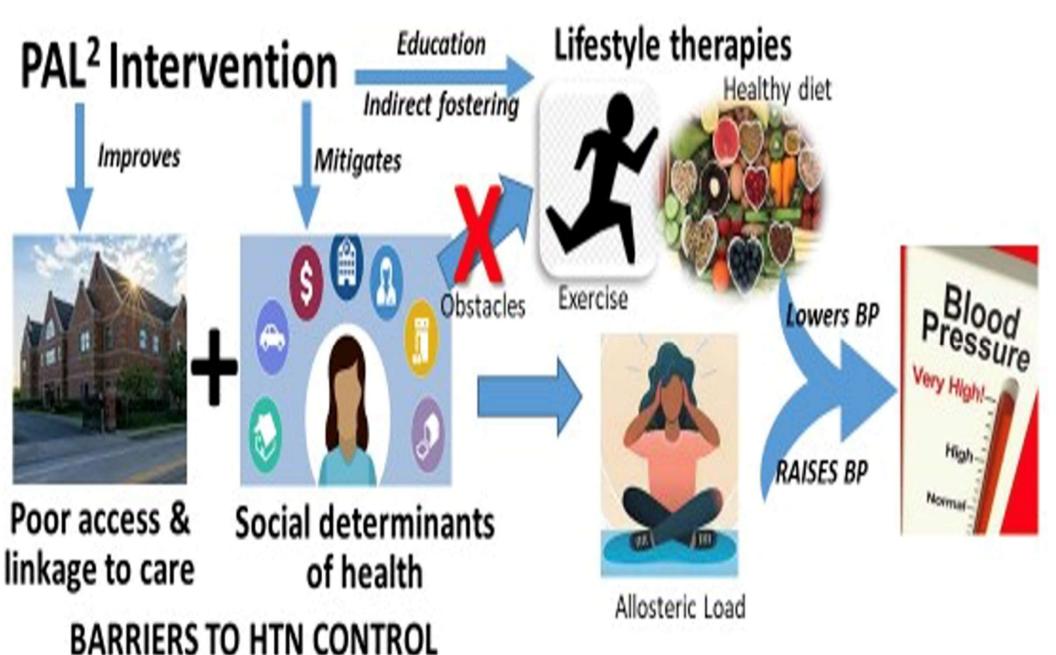




ACHIEVE GREATER

Addressing Cardiometabolic Health Inequities by Early PreVEntion in the GREAT Lakes Region







Setter Health Partnership

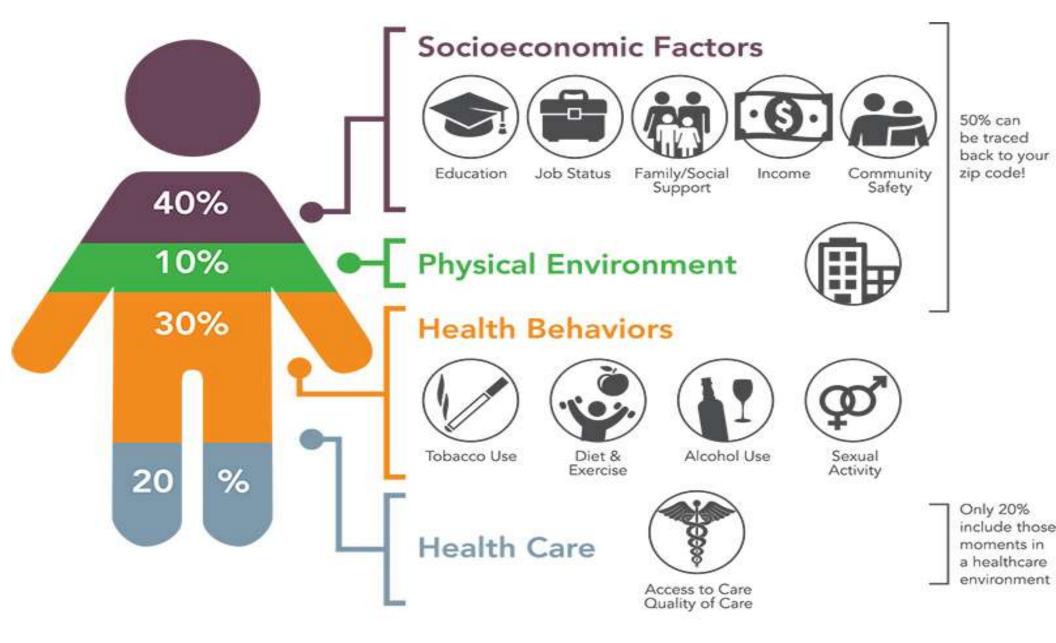
PAL₂

- PRAGMATIC
- PERSONALIZED
- ADAPTABLE
- APPROACH to
- LIFESTYLE &
- LIFE CIRCUMSTANCE

Engaging Focusing Evoking Planning







Source: Institute for Clinical Systems Improvement, Going Beyond Clinical Walls: Solving Complex Problems (October 2014)







COMMUNITY HEALTH WORKERS (CHWS)

- Review SDoH screener
- Connect to community resources
- Follow up
- Healthcare team leader: clinicians, case managers, pharmacists, and administrators
 - Care delivery,Reimbursable*





POPULATION HEALTH

Social and Economic Factors Drive Health Outcomes

Economic Stability	Neighborhood and Physical Environment	Education	Food	Community and Social Context	Health Care System					
Racism and Discrimination										
Employment Income Expenses Debt Medical bills Support	Housing Transportation Safety Parks Playgrounds Walkability Zip code / geography	Literacy Language Early childhood education Vocational training Higher education	Food security Access to healthy options	Social integration Support systems Community engagement Stress Exposure to violence/trauma	Health coverage Provider availability Provider linguistic and cultural competency Quality of care					
•	•	•	•	•	•					

Health Outcomes: Mortality, Morbidity, Life Expectancy, Health Care Expenditures, Health Status, Functional Limitations





Social Services Delivered

1								
Referral Category	Program Totals	2021 Total	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Number of Follow ups attempted	Number of Followups Completed
Number of individuals assisted with social service referrals onsite	2525	1259	662	291	214	92	2018	1211
Food Assistance	862	436	258	77	68	33	628	371
Public Benefits Assistance	429	193	137	34	15	7	324	170
Unemployment Assistance	359	153	110	33	8	2	289	161
Navigator Services (Health Insurance Navigation)	242	108	52	22	27	7	166	96
Utility Assistance	136	90	10	18	47	15	60	50
Voter Registration	47	10	5	5	0	0	35	25
PCP Referral *	116	94	9	18	39	28	50	49
Transportation Assistance	39	10	0	0	10	0	29	13





PAL2 Components

- Screen for SDOH needs and provide referrals
- Provide feedback on blood pressure from home blood pressure monitoring
- Provide and review educational handouts
- Make a "change plan" where goals and actions steps to accomplish them are set or review the success of a previous plan and update/revise
 - Motivational Interviewing





P1 PAL2

•For people with low risk, stage 1 hypertension and who are not on medication for HTN at the start of the study

Lifestyle changes may be enough to control/improve HTN
May start HTN medication during the study if BP does not improve
Medication will be managed by a study pharmacist

- •Intervention lasts for 2 years
 - **■**First twelve months= monthly sessions
 - **■**Second twelve months= quarterly sessions (4 times per year)





P2 PAL2

■P2 study: for people with Stage 2 HTN or Stage 1 HTN plus at least 1 risk for heart failure (diabetes or chronic kidney disease)

Will follow a standard protocol for managing HTN medications Medication will be managed by a study pharmacist

- •Intervention lasts for 2 years
 - **■**First twelve months= monthly sessions
 - Second twelve months= quarterly sessions (4 times per year)









Why Should I Limit Sodium?

professional to reduce the sodium, or salt, in your diet. Most people eat too much sodium, ofter without knowing it. Reducing the amount of sodium in your diet can help you lower or avoid high blood pressure.

regulated in the body by your kidneys, and it helps control your body's fluid balance. It also plays a key role in nerve and muscle function.

But too much sodium in your system cau body to retain (hold onto) water. This ma puffiness, bloating and weight gain.

How does too much sodium affect my heart health?

into your bland wrotes, increasing the amount of blood midd your bland would, before the definition of blood midd your bland would. With more bland flowing through your bland woulds, bland pressure investors. In some people, this wong lead to or raise high bland pressure.

Having less sodium in your diet may help you lower or as high-blood pressure, which is a major risk factor for heart disease and strake.

How much sodium do I need?

Nine out of 10 Americans consume too much sodium. The average American eats more than 1,400 reliigrams (mg) of sodium a day.

- 2,300 mg a day and an ideal limit of less than 1,500 mg p day for most adults, especially for those with high blood
- Even cutting back by 1,000 mg a day can improve blood pressure and heart health.



Pay attention to food labels, because they tell how much sodium is in food products. For example, foods with MP-map or less rodium per sorting one considered low in sadeum, Sodium Newlo of the same type of food can vary widely. Compare the Nutrition Facts tabels, and select the products with the leasest amount of sodium per serving.

What foods should I limit?

The best way to reduce sodium is to avoid prepackaged, processed and prepared foods, which tend to be higher

ANSWERS Dy heart Catedyle + Bult Reduction

How Can I Manage Stress?

It's important to learn how to recognize how stress affects you, learn how to deal with it, and doublen hostilly habits to paso your stress. What is stressful to one person may not be to another. Stress can come from happy events (a new marriage, job promotion, new home) as well as unhappy events (Bness, overwork, family problems)



What is stress?

Stress is your body's response to change. Vour body reacts to it by releasing advendine (a hormone) that can cause your herathing and heart rate to speed up, and your blood pressure to rise. These reactions help you deal with the situation.

The link between stress and heart discuse is not clear. But, over time, unbealthy responses to stress may lead to health problems. For instance, people usoner stress may overrunt, drink too much alcohol or smoke. These unhealthy behaviors can increase your risk of heart

Not all stress is bad. Speaking to a group or watching fun, too. The key is to munior your stress respects

How does stress make you feel?

- Stress affects each of us in different ways. You may
- . You may feel anery, afraid, excited or helpless. - It may be hard to sleep.

- . It can lead to habits like smoking, drinking
- body suffers from it.

- Taking steps to manage stress will help you feel more in control of your life. Here are some good ways to cope.
- "I can't do this," say "I'll do the best I can." . Take 15 to 20 minutes a day to sit quietly, relax, brouthe devely and think of something peaceful. Engage in physical activity regularly. Do what you enjoy — walk, swim, ride a bike or do yogs. Letting go of the tension in your body will help you feel a
- Try to do at least one thing every day that you enjoy, even if you only do it for 15 minutes.

- · You may not even feel it at all, even though your

How can I cope with it?

- . Try positive self-talk --- turning negative thoughts

Healthy for Good

How much physical activity do you need?



Move More, Sit Less et up and move throughout the day. Any o better than none, Even light-intensity acti feet the serious health risks of being seden



Add Intensity

Moderate to vigorous cerobic exercise is best. Your heart will beat faster, and you'll weathe harder than normal. As you get weathe harder than normal.





Feel Better

Move more, with more intensity, and sit less.

Find out how at heart.org/movemore.





11 EDUCATE YOURSELF

The first step to quitting smoking, septing and using tobacco is to understand the risks and health effects for you and your family.

- Smaking is the most preventable cause of death in the U.S. It's linked to about one third of all deaths from heart disease and 90% of lung cancers.
- Cigarettes, e-cigarettes and tobacco products contain many taxic chemicals, as do their smake, vapor and liquids.
- About half of U.S. children ages 3-11 are exposed to secondhand smake and vapor Tobacco use and nicotine addiction is a growing crisis for treens and young adults.
- You can be one of the millions of people who successfully quit every year.
- Within I year after quitting, your risk of heart disease goes down by half.



2 MAKE A PLAN TO QUIT

SET a quit date within the next 7 days.

CHOOSE a method: cold turkey or gradually. DECIDE if you need help from a health care provider, nicotine replacement or medicine.

PREPARE for your quit day by planning how to deal with cravings and urges.

OUIT on your quit day.

LEARN MORE AT HEART ORG/MYLIFECHECK AND HEART ORG/TOBACCO

11PS FOR SUCCESS





manage the stress and crasings when quitting. You'll feel better,







STICK WITH IT



How Do I Follow a **Healthy Diet Pattern?**

a healthy eating pattern that emphasizes vegetables, fruits and whole grains. It includes vegetables, firsts and whole grains, it includes skinless positing, this and legames (thorus, poos and lantility, contropical vegetable oils, and ruds and sends. Unit you inhale of leadings, seechs, segurasectaned because and red and processed meants. Everything you cat and drink is port of your dett pattern. Male healthy chaocs today and thay like add up to healthard temocross today and thay like add up to healthard temocross today and thay like add up to healthard temocross today and

- But a variety of colors and types, especially deeply colored regetables, such as spinach, carrots and be
- All wegetables count, including fresh, fraxon, conned or
- Examples of a purition per serving are: 2 cups raw leafly greens; 1 cup cut-up now or cooked vegetables labout the size of a field; or 1-cup 100% vegetable juice line soft

- Unsweetened faults are best. Eat a variety of colors and types, especially deeply coloned faults, such as peaches and bentes.
- enery wall rain be enturing in same julices. Examples of a parties per serving one: meedium half laboul the size of a baseledily. It may unswertened died half, it may look, from or cannot fault lancewritened factor or cannot in its own julice or water), or it cap 100% fault juice.

- At least half of your senings should be high fiber whole grains. Select items like whole wheat broad, whole grains crackers and beaven its, took at the ingendents list to see that the first ingendent is a whole grain. Am for about 25 grams of liber from foods each day. Check the fabrillian fracts label for destary liber cracked.
- Examples of a partion per serving are 1 slice broad, 16 cap hot comed, 1 cap coreal flakes; or 16 cap cooked rice or parts (about the size of a baseboll).

Protein foods

- His up-gour protein sources. Beyond fails, poultry and lean or extra lean meats, try eggs and say products, such as tofu.
- East at least 8 surces of non-fried fish (particularly fath) falt) each week. Fatty falt, such as salman, mackend, heming, take trout, sandines and albacore tune, are high in omega 3 fatty acids.
- Remove skin from possibly before entire
- Limit processed red meats, such as bacon, salami, ham, hot dogs and sausage.

















ACHIEVE GREATER

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