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Ohio Cardiovascular and Diabetes Health Collaborative



In partnership with:



Success Stories from the Field: Involving Community Health Workers in Team-based Cardiometabolic Care

June 9, 2021



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Welcome

Michael W. Konstan, MD
PI, Cardi-OH

Shari Bolen, MD, MPH
Co-PI, Cardi-OH

Case Western Reserve University School of Medicine

About Cardi-OH

Founded in 2017, the mission of Cardi-OH is to improve cardiovascular and diabetes health outcomes and eliminate disparities in Ohio's Medicaid population.

WHO WE ARE: An initiative of health care professionals across Ohio's seven medical schools.

WHAT WE DO: Identify, produce and disseminate evidence-based cardiovascular and diabetes best practices to primary care teams.

HOW WE DO IT: Utilize monthly newsletters and an online repository of resources at Cardi-OH.org, podcasts available on Cardi-OH Radio, and the Project ECHO® virtual training model.



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[Learn more at cardi-oh.org](http://cardi-oh.org)

Special Thanks



Special Thanks



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- **If joining as a group, please use the Chat feature to record names and emails of all attendees**
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 - Use the Q&A feature to submit questions at any point
 - Questions will be answered during the ‘Question and Answer’ portion of the program
 - Please specify which speaker should answer
- **Post Webinar Evaluation Survey**
 - The survey link will be shared at the end of today’s webinar and also sent by email
 - Please complete by COB Wednesday, June 16

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- 1.00 AMA PRA Category 1 Credit is available for this webinar
- You must complete the CME Evaluation and claim credits by Wednesday, June 23
- If you do not receive an email to complete your CME evaluation or need other assistance, contact Cathy Sullivan, csullivan1@metrohealth.org

Disclosure Statement:

- Adam Perzynski, PhD has reported a financial relationship with commercial interests.

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Agenda



Topics	Presenter(s)	Timing
Welcome and Overview	Michael Konstan, MD Shari Bolen, MD, MPH	5 mins.
Ohio Department of Medicaid: Introductory Remarks & Health Equity Framing	Donald Wharton, MD Chezré Willoughby	5 mins.
Introduction to Community Health Workers	Elizabeth Beverly, PhD Melissa Thomas, PhD	15 mins.
Clinic Site #1: OhioHealth Physician Group, Athens	Amber Healy, DO Margot Baker, CHW	5 mins.
Clinic Site #2: Heart of Ohio Family Health Centers, Columbus	David Brewer, MBA, MS, RD, LD Arcelia Herrera, CHW	15 mins.
Facilitated Question and Answer	Chris Bernheisel, MD All	13 mins.
Next Steps and Wrap-Up	Shari Bolen, MD, MPH	2 mins.

Speakers



Donald Wharton
Ohio Department of Medicaid



Chezré Willoughby



Elizabeth Beverly



Melissa Thomas



Amber Healy

Ohio University

Margot Baker



David Brewer
Heart of Ohio Family Health Centers



Arcelia Herrera



Chris Bernheisel
University of Cincinnati



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Ohio Department of Medicaid: Introductory Remarks & Health Equity Framing

Donald Wharton, MD

Assistant Medical Director

Office of Health Innovation and Quality

Chezné Willoughby

Health Equity Manager

Bureau of Health Research and Quality

Health Equity

The attainment of the highest level of health for all people. Achieving health equity requires valuing everyone equally with focused and ongoing societal efforts to address avoidable inequalities, historical and contemporary injustices, and the elimination of health and health care disparities.

-Healthy People 2030

Equality vs Equity

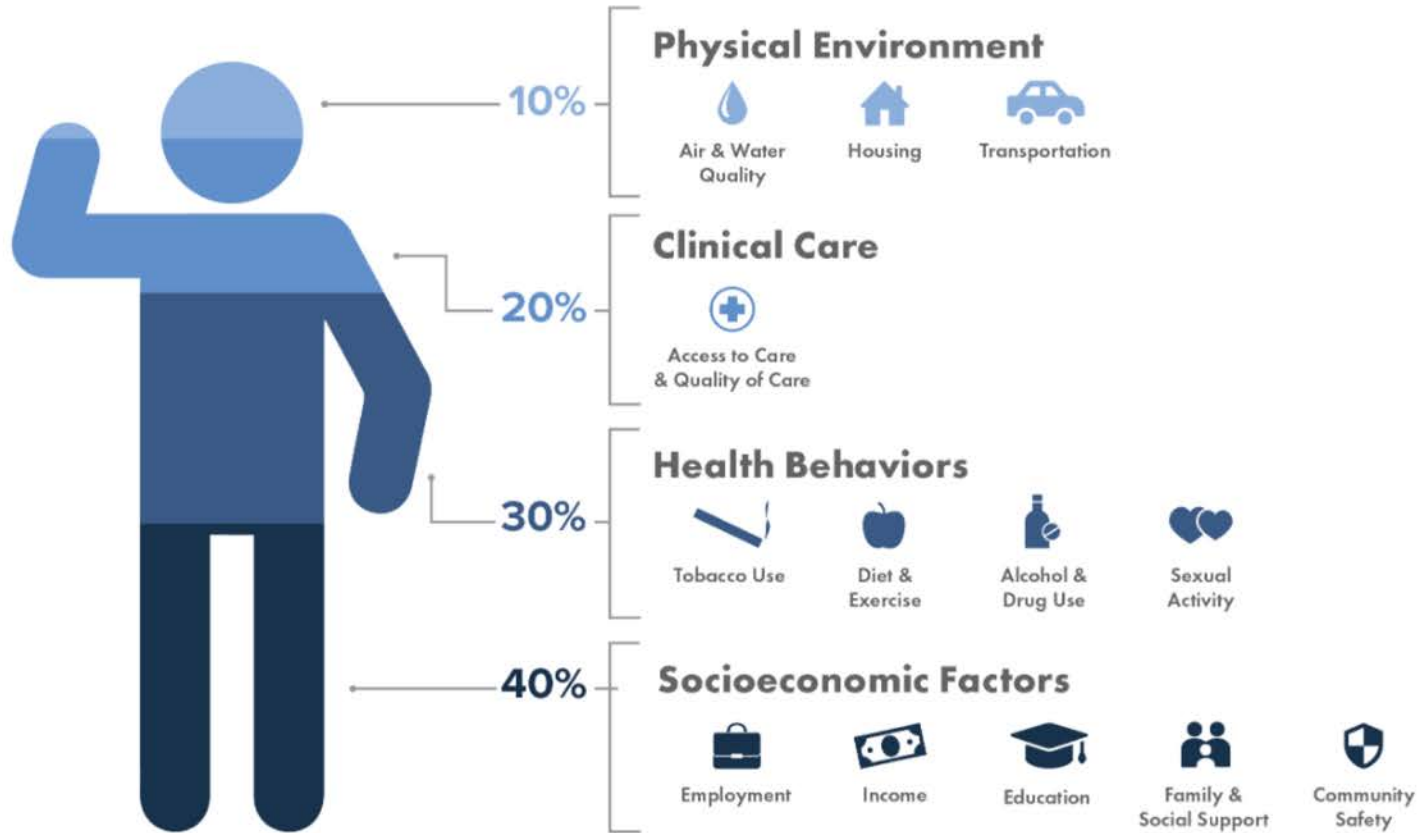


EQUALITY



EQUITY

Health Outcomes Length of Life (50%)
Quality of Life (50%)



Population Health- With an Equity Focus

- Person-focused
- Promotes better patient engagement
 - Patients feel empowered to manage their own health
 - Provide better patient satisfaction while improvement in entire groups as costs go down due to efficiencies
- Uses health data strategically
 - Identify and monitor improvement opportunities
 - Incorporate the member perspective into the design of strategic initiatives to address identified needs
 - Evaluate effectiveness of care to inform continued improvements



Improve Wellness & Health Outcomes



Support Providers in Better Patient Care



Emphasize a Personalized Care Experience



Improve Care for Children and Adults with Complex Needs



Increase Program Transparency and Accountability



Focus on the **INDIVIDUAL** rather than the business of managed care

We want to do better for the people we serve



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Introduction to Community Health Workers

Elizabeth Beverly, PhD
Site PI, Cardi-OH

Melissa K. Thomas, PhD, MSPH, MSA, MCHES[®], C-CHW

Ohio University Heritage College of Osteopathic Medicine

Objectives



1. Define the role of community health workers (CHWs).
2. Describe effective CHW strategies to improve cardiometabolic care and outcomes and reduce disparities.
3. List real world approaches to integrating or linking CHWs into team-based primary care.

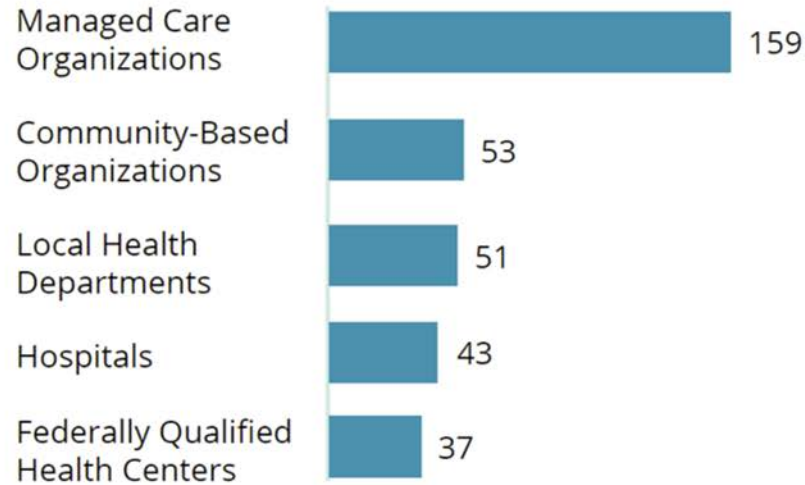
US Bureau of Labor Statistics



- **21-1094 Community Health Workers**

“Promote health within a community by assisting individuals to adopt healthy behaviors. Serve as an advocate for the health needs of individuals by assisting community residents in effectively communicating with healthcare providers or social service agencies. Act as liaison or advocate and implement programs that promote, maintain, and improve individual and overall community health. May deliver health-related preventive services such as blood pressure, glaucoma, and hearing screenings. May collect data to help identify community health needs. Excludes "Health Education Specialists" (21-1091)”

WHERE DO MOST CHWs IN OHIO WORK?



WHO DO CHWs IN OHIO SERVE?



OHIO CHWs BY THE NUMBERS

850*
Certified and non-certified

94%
Female

46%
African American

44%
Caucasian

100%
All Ohio Counties served

**The total number of CHWs reported is likely underestimated*

Diabetes Statistics in Ohio



- 13.5% of adults have diabetes (1.3 million)
- ~70,000 people are diagnosed with diabetes every year
- Medical expenses are 2.3 times higher for people with diabetes
 - \$9.1 billion direct medical expenses
 - \$2.9 billion indirect costs

Social Determinants of Health in Ohio



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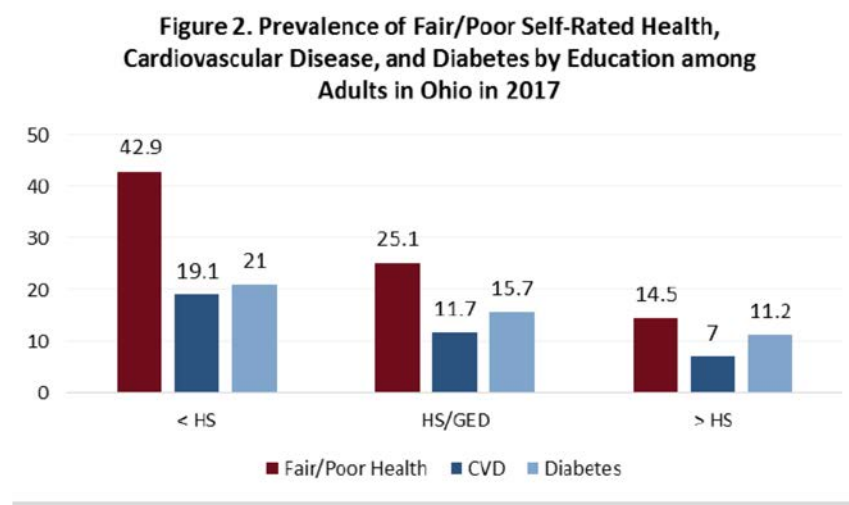
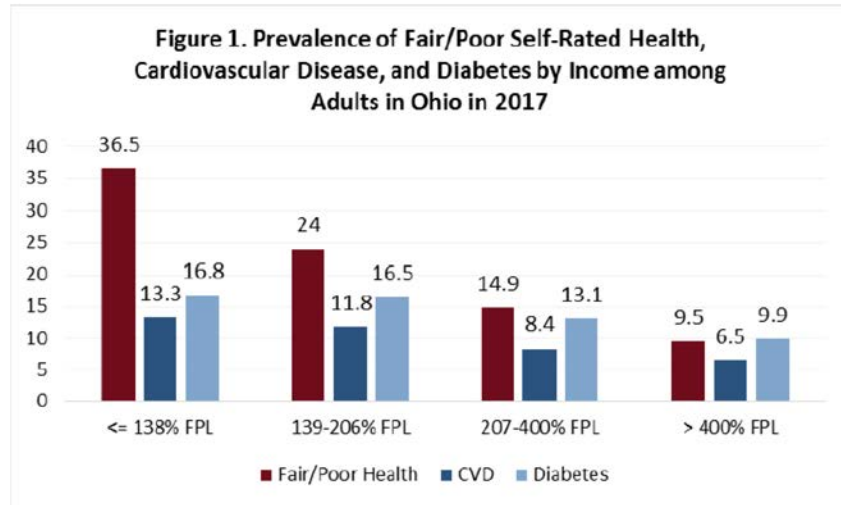
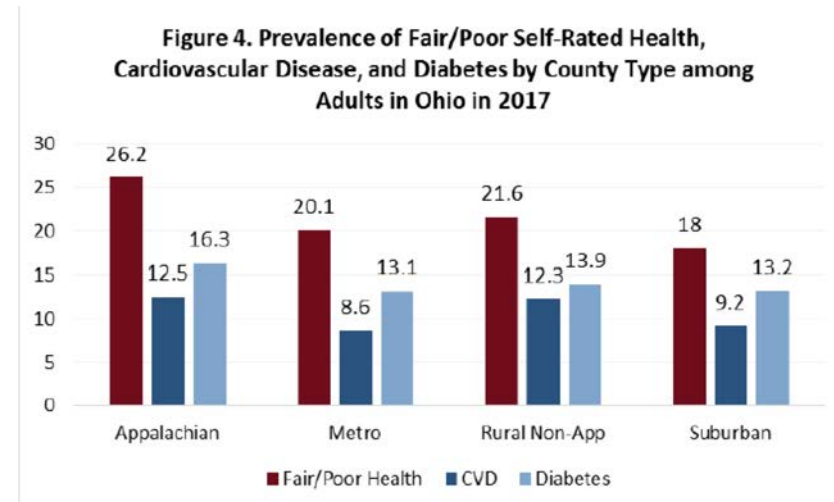
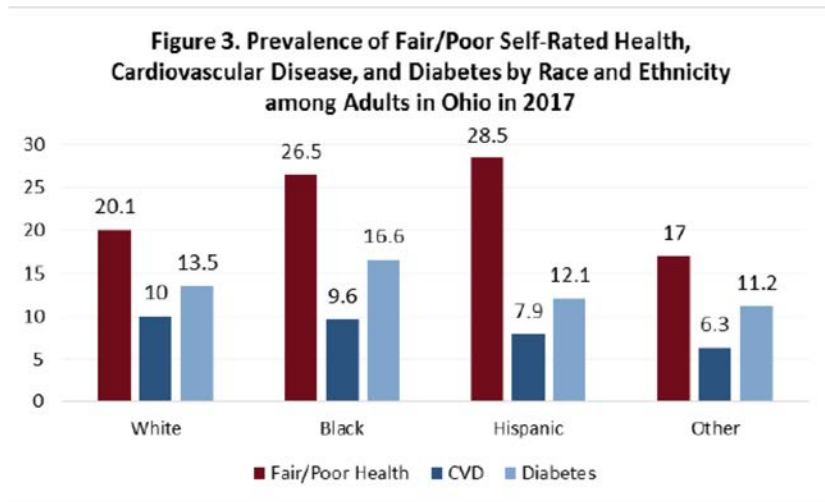


Figure 1. Income
Figure 2. Education
Figure 3. Race
Figure 4. County



CHWs and Health Disparities



- CHW Model is designed to address health disparities and improve outcomes by:
 - Connecting patients to and navigating them through the healthcare system,
 - Supporting adherence to screening and diagnostic services,
 - Providing emotional support and building trust, and
 - Providing financial and community resources.

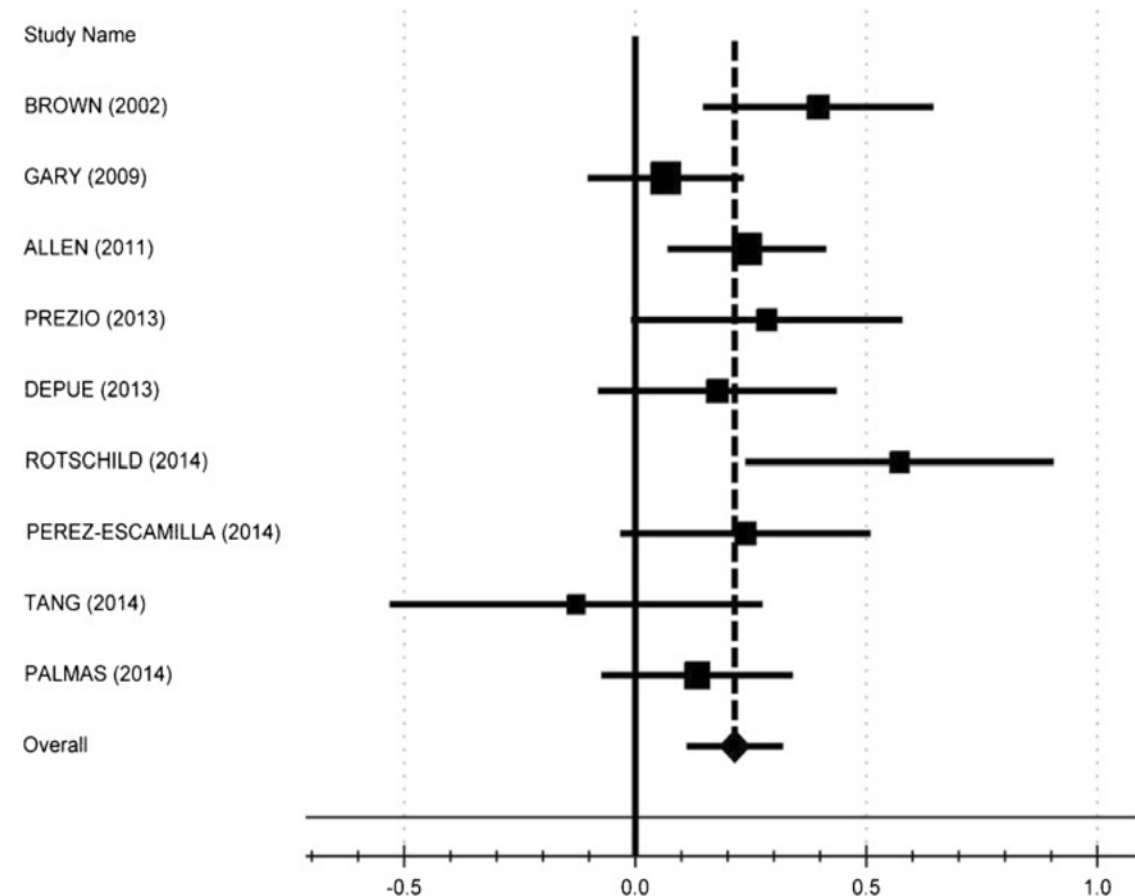
Role(s) of CHWs and Type 2 Diabetes



- Education: lay diabetes educators for Type 2 Diabetes (n=44)
- Support: provide emotional, appraisal, informational, and instrumental/tangible support (n=42)
- Advocacy: help participants communicate with providers and health care system(n=10)
- Coordination: (n=44)
 1. CHWs are coordinated by interventionists or researchers
 2. CHWs are coordinated by providers at healthcare practice
 3. Experienced CHW coordinates CHWs and communicates with practices

CHWs and A1C Reductions

- Meta-analysis of 9 randomized controlled trials showed a modest reduction in A1C=0.21% (0.11, 0.32%) lasting 12 months.
- Greater reduction in A1C achieved in populations with higher A1C at baseline.
- More visit-intensive CHW protocols may lead to great A1C improvements







CHWs and Self-Care Behaviors



- **CHW interventions improved diabetes knowledge** (Babamoto et al., 2009; Wagner et al., 2015).

- **CHW interventions improved self-care:**
 - **Medication-taking** (Babamoto et al., 2009; Batts et al., 2001; Heisler et al., 2014)
 - **Diet** (Babamoto et al., 2009; Batts et al., 2001; Kollannoor-Samuel et al., 2016; Rothschild et al., 2014)
 - **Physical activity** (Batts et al., 2001; Gary et al., 2003; Rothschild et al., 2014; Spencer et al., 2011).

CHWs and Mental Health

- CHW interventions demonstrated improvements in:
 -  **Self-efficacy** (Heisler et al., 2014; Rothschild et al., 2014).
 -  **Diabetes distress** (Heisler et al., 2014; Spencer et al., 2013; Tang et al. 2014).
 -  **Depressive symptoms** (Wagner et al., 2016).
 -  **Anxiety symptoms** (Wagner et al., 2016).

CHWs and Economic Benefits

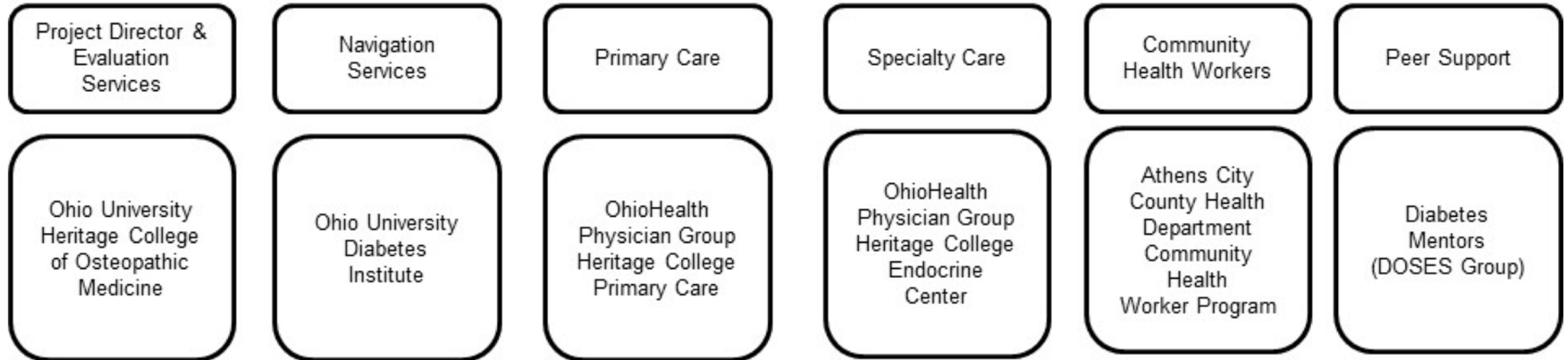


- To manage Type 2 Diabetes, the median change in healthcare cost was a reduction of \$72 per patient per year.
- The median cost per quality-adjusted life year (QALY) gained for CHW interventions to manage Type 2 Diabetes was \$35,837.
 - The U.S. values one QALY at \$50,000 - \$150,000

Southeast Ohio CHW Program



Diabetes Consortium



Southeast Ohio Navigation Program



- Patient Navigators and CHWs provide lay education, support, and advocacy for Type 2 Diabetes management.
- Patient Navigator coordinates with researcher.
- Experienced CHW coordinates CHWs and communicates with practices.
- The mean A1C of participants before receiving CHW services was 10.1%, and the mean after working with the CHW was 8.2% (mean improvement=1.9%, t-value=4.590, p=.004).



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Southeast Ohio Provider and CHW Experiences

Amber Healy, DO

Clinical Assistant Professor

Director, Diabetes Fellowship

Ohio University Heritage College of Osteopathic Medicine

Margot Baker, CHW

OhioHealth Physician Group, Athens

Provider Experiences



Real World Considerations

- Patient buy-in
 - Convincing the patient of the benefits

- Integrating CHWs as a part of a healthcare team
 - Health system buy-in
 - HIPAA
 - Establishing communication process

- Outcomes
 - Mostly positive
 - Occasional unreachable patient

Integrating CHWs as Part of a Team



- Cannot get direct access to the EMR due to HIPAA
 - Referral to Athens County Health Department for CHW
 - CHW faxes back intake notes and updates after meetings with patient
 - Calls with more emergent needs as needed

- Ask at appointments about support from CHW
 - If perceived as beneficial, then encourage continued utilization of support

CHW Experiences: Discussion

- What is the referral process?
- What has worked well?
- What would you change?





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Utilizing Community Health Workers to Improve Diabetes and Hypertension in a Federally Qualified Health Center

David Brewer, MBA, MS, RD, LD, CPHQ

Arcelia Herrera, CHW

Heart of Ohio Family Health Centers, Columbus



HEART OF OHIO
FAMILY HEALTH

About HOFH - Our Mission



Our mission is to provide high-quality, holistic, and compassionate care to meet the healthcare needs of everyone in our diverse community, one heart at a time.

About HOFH - Our Clinics



5969 E. Broad Street Suite 300, Columbus, Ohio 43213



675 S Yearling Rd, Whitehall, OH 43213



3601 Gender Road, Columbus, OH 43110 - Coming 2021



882 S. Hamilton Road, Columbus, OH 43213



2365 Innis Rd, Columbus, OH 43224



James B. Feibel Health Center - Coming 2021

9982 PATIENTS

53%

African American

16%

White

14%

Latino

12%

Asian

3%

Unreported

2%

Other

Our top 3 languages spoken by our patients are **Somali**, **Nepali**, and **Spanish**.

24% of our patients live below the poverty line.



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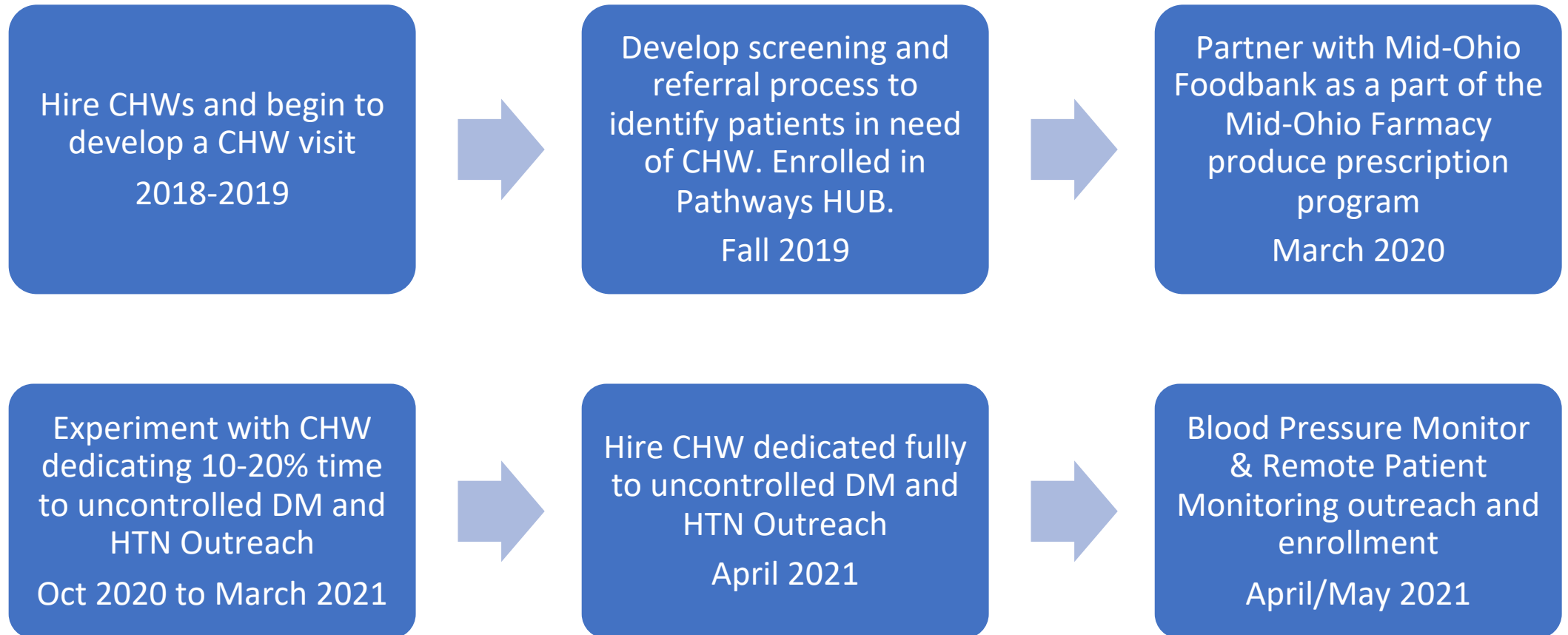
HEART OF OHIO
FAMILY HEALTH

Hypertension and Diabetes Care Team

- Physicians and CNPs
- Dietitians
- Clinical Pharmacists
- RN Care Coordinators
- Counselors
- Psychiatric CNPs
- Community Health Workers



CHWs at Heart of Ohio Family Health Centers



CHW Screening and Referral Process



- Medical Assistants screen ALL patients for SDOH every 3 months
 - Housing, transportation, employment, education, health insurance, clothing, legal help, bills, baby items, food, and social circle
- Medical Assistants are empowered to schedule the patient with the CHW after needs are identified.
- Medical Assistants can connect patients with the Mid-Ohio Pharmacy produce prescription program (>1,500 enrollees)
- 78% of patients in 2020 received at least one screening



CHW Visit Process

- CHW reviews SDOH screening and special notes in the referral.
- CHW assesses complexity of patient needs over the phone.
 - Complex patients: Enroll in Pathways HUB model for intensive case management
 - Patients with limited need: Connect patient to resources
- Always schedule a follow up before the end of the visit for home visit, clinic visit, or phone visit.



CHW Outreach to Uncontrolled DM and HTN



- Monthly spreadsheet generated from UnityPHM which includes:
 - Historical BP and A1c readings
 - Care team members who have seen the patient in the past 6 months
 - Upcoming appointments for PCP, dietitian, pharmacist, etc.
 - Recent missed appointments

- CHW would review the chart and call the patient to get them back in to services that they need and provide education



Results:

CHW Outreach to Uncontrolled DM and HTN

- 256 patients with HgbA1C > 8% called
 - 50 patients rescheduled
 - 127 voicemails left, texts sent, or patient will call back
- 140 patients with BP > 140/90
 - 23 patients rescheduled
 - 50 voicemails left, text sent, or “patient will call back”
- Various other outcomes
 - Patient connected to application specialist to apply for insurance
 - Patients no longer getting care at HOFHC
 - Concerns about high readings at home triaged with a nurse



Results:

CHW Outreach to Uncontrolled DM and HTN



- Learning experiences

- Identification of providers not following more frequent follow up guidelines for uncontrolled DM and HTN and education of providers.
- Identification of process problems leading patients lost to care (patient not being scheduled for follow up before leaving the office or before ending telehealth visit)
- Identification of providers not referring patients to beneficial ancillary services during telehealth visits.
- Automated text messages to patients who no-show.
- Why wait until monthly report to call patients when we could call the patient 1-2 days after no-show?
- Patients are generally thankful for this outreach



Next Steps:

CHW Outreach to Uncontrolled DM and HTN

- List of patients with DM/HTN who miss visits automatically emailed to our CHW the day after the missed visit to call to reschedule.
- Can we get more done in that phone call like connect patients to other needed services?



Results:

Connecting Patients with Home BP Monitors

- 700 patients sent a text message asking if they wanted a home BP monitor
 - Did not include patient name, identifying info or infer high blood pressure status
- 101 responded YES and were contacted by CHW
 - 26 scheduled for remote patient monitoring visit with dietitian or pharmacist
 - 7 scheduled with application specialist to get insurance
 - Others are pending information about insurance coverage, scheduled with Charitable Pharmacy to get BP cuff, or choosing to buy a BP cuff on their own (some seeing our pharmacist to learn how to use it)



Results:

Connecting Patients with Home BP Monitors



- Learning experiences
 - Unanticipated situations to account for in the future:
 - Patients who were only seeing GYN providers at our practice
 - Patients who were managed by cardiology who wanted RPM
 - Patients who had arm circumference too large for our RPM devices
 - Private insurance rarely covers home BP monitors
 - Lack of consistency in how insurance handles home BP monitors (pharmacy, DME supplier, Prior Auth, etc.)
 - There are sources of BP cuffs for low income patients (Charitable Pharmacy and maybe 340B)

Results:

Connecting Patients with Home BP Monitors

- Major Takeaway
 - Connecting patients with Home BP monitors can be complicated, especially for the disadvantaged patients served at an FQHC
 - Having a local expert to help providers and patients navigate the process



Next Steps: Connecting Patients with Home BP Monitors

- Referral process for home blood pressure monitors that involves CHW



From the CHW Perspective





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Question and Answer

Chris Bernheisel, MD

University of Cincinnati College of Medicine

Speakers

REMINDER: Submit questions using the 'Q&A' feature and specify which speaker should answer



Donald Wharton
Ohio Department of Medicaid



Chezré Willoughby



Elizabeth Beverly



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Ohio University

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Heart of Ohio Family Health Centers



Arcelia Herrera



Chris Bernheisel
University of Cincinnati



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Next Steps and Wrap Up

Shari Bolen, MD, MPH

Case Western Reserve University School of Medicine

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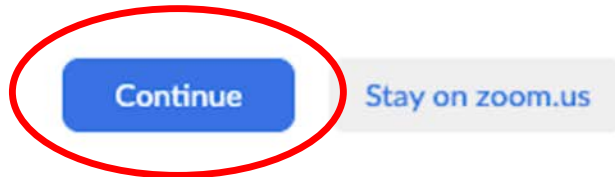


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you will be leaving zoom.us to access the external URL below

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Hit the **Continue** button in your new browser tab to access the evaluation survey.
The survey link will also be emailed to you.

Fall 2021 TeleECHO Clinic
September 16 to December 9, 2021
Thursdays, 8 - 9 a.m.



Your Patient with Diabetes at Risk for Heart Disease: A Series of Case Discussions

How Does it Work?

- Utilizes simple videoconferencing technology to conduct virtual clinics with community health care providers in Ohio
- Includes a brief didactic session followed by an interactive discussion of de-identified case studies
- Offers a whole-person approach to diabetes and cardiovascular risk management

Why Join?

- Improves cardiovascular and diabetes health outcomes
- Enhances professional development and retention
- Provides continued learning through the sharing of best practices
- Increases efficiency and joy of practice

Register now – [Cardi-OH.org](https://www.Cardi-OH.org)
CME credit provided at no cost.

THANK YOU!



Learn More!

To learn more about the collaborative and read up on the latest best practices, visit cardi-oh.org and follow us on Twitter [@cardi_OH](https://twitter.com/cardi_OH) and Facebook [@cardiohio](https://facebook.com/cardiohio).

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