Henry Ford Health Henry Ford Health Scholarly Commons

Quality Expo 2024

Quality Expo

3-12-2024

Project #51: Reducing Hypertension in Younger African American Men: Advancing Health Equity with a Multidisciplinary Express Blood Pressure Clinic

Mike Anderson Henry Ford Health

Michelle Buggs Henry Ford Health

Roberta Eis Henry Ford Health

DaWanna Jones Henry Ford Health

Sarah Kolander Henry Ford Health

See next page for additional authors

Follow this and additional works at: https://scholarlycommons.henryford.com/qualityexpo2024

Recommended Citation

Anderson, Mike; Buggs, Michelle; Eis, Roberta; Jones, DaWanna; Kolander, Sarah; Kumar, Sanjeev; Lang-Piontkowski, Carolyn; Little, Melissa; Lobkovich, Alison; Shabazz, Pamela; Solomon, Octavia; and White-Perkins, Denise, "Project #51: Reducing Hypertension in Younger African American Men: Advancing Health Equity with a Multidisciplinary Express Blood Pressure Clinic" (2024). *Quality Expo 2024*. 50. https://scholarlycommons.henryford.com/qualityexpo2024/50

This Book is brought to you for free and open access by the Quality Expo at Henry Ford Health Scholarly Commons. It has been accepted for inclusion in Quality Expo 2024 by an authorized administrator of Henry Ford Health Scholarly Commons.

Authors

Mike Anderson, Michelle Buggs, Roberta Eis, DaWanna Jones, Sarah Kolander, Sanjeev Kumar, Carolyn Lang-Piontkowski, Melissa Little, Alison Lobkovich, Pamela Shabazz, Octavia Solomon, and Denise White-Perkins

HENRY FORD HEALTH

Reducing Hypertension in Younger African American Men: Advancing Health Equity with a Multidisciplinary Express Blood Pressure Clinic Mike Anderson, CHW, Michelle Buggs, BA, MS, Roberta Eis, RN, MBA, DaWanna Jones, MA, Sarah Kolander, PharmD, Sanjeev Kumar, BDS, MHSA, Carolyn Lang-Piontkowski, MSN, RN, Melissa Little, CNP, Alison Lobkovich, PharmD,

BACKGROUND & AIM

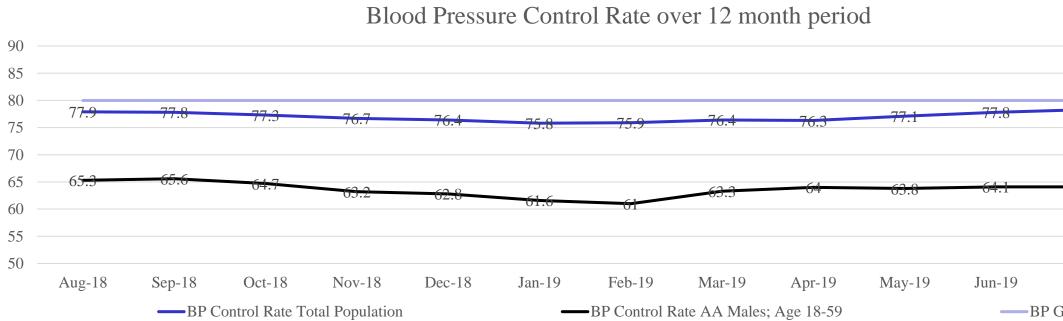
The African American (AA) population is disproportionately impacted by hypertension-related complications.⁽¹⁾ Compared to other races, AAs are at a significantly higher risk of mortality and a three-times increased risk of stroke.⁽²⁾ AA men have the highest hypertension-related mortality compared to any other race, ethnic group, or sex.⁽³⁾

In response to this challenge, the American College of Preventive Medicine (ACPM) collaborated with the Centers for Disease Control (CDC) to prevent, detect and control hypertension among AA men ages 35-64. Henry Ford Health was awarded a 5-year grant from the ACPM and CDC to address hypertension improvement for AA males. Strategies to create synergy and seamlessness between the existing RN BP recheck and Embedded-pharmacist teams were developed to capitalize on activities already implemented to improve BP control for the general adult population. Addressing specific disparities in BP control for AA men led to creation of the "Express Blood Pressure Clinic" (Exp BP) that focused on the following aims:

- Achievement of blood pressure goal in ~ 8 weeks ($\leq 140 / \leq 90$).
- Monitor medication adherence, BP control and program satisfaction.
- Assess & address Social Determinants of Health (SDOH) needs-focus on food insecurity.

PLAN: Current State

<u>Data review</u>: BP Control for our AA male population ages 18-59 was significantly lower than our System goal of 80% as evidenced by the trended data below.



<u>Current state</u>: Involved an assessment survey of existing activities to address blood pressure management including provider and patient surveys. It was found that:

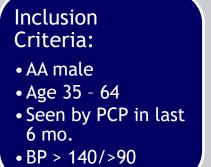
- Providers expressed a desire **for additional support** to manage HTN.
- Improved coordination between resources: RN BP Management program and Embedded Pharmacist program.
- Patients reported a desire to have a **role in self-management of BP** and closer follow up by the healthcare team

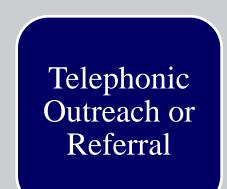
DO: Intervention

In August 2020, data gained from the comprehensive analysis of current practices was applied to develop an innovative, multidisciplinary Express Blood Pressure Clinic at two urban clinic sites to improve control for African American men.

- Multifaceted data analytics driven, team-based approach to improve HTN control using brief, flexibly scheduled, focused visits.
- **Eligibility criteria:** AA male, Age 35- 64 with uncontrolled HTN (most recent BP >=140/>=90) and seen in the past six months by their PCP.
- Create synergy and seamlessness between RN BP recheck team, Embedded-pharmacists, Medical Assistants (MAs), Community Health Worker (CHW) or Hypertension (HTN) Navigator and the Nutritional Consultant (RDN Master's Student) by utilizing support team to maximum of licensure/skill set.
- Match patients to services based on needs: timing of HTN diagnosis; number/severity of comorbidities; medication regimen complexity; educational gaps; SDOH needs.
- **Engage patients** in home blood pressure monitoring by distribution of devices, education on use, and monitoring to track/act on readings.

Express Blood Pressure Program: Process Map





Patient Scheduled w/ PharmD or RN



Document visit

Pamela Shabazz, MSN, RN, Octavia Solomon, PharmD, Denise White Perkins, MD, PhD

Figure 1

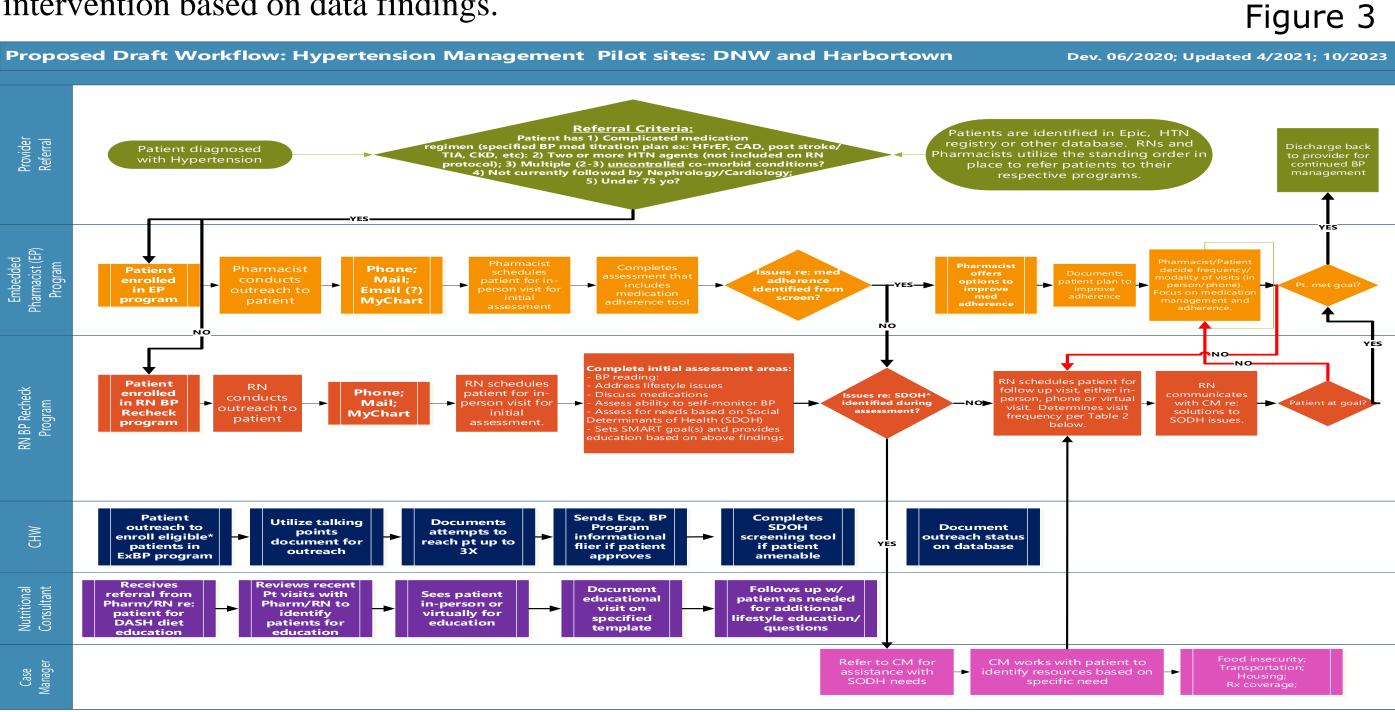
78.3	78 .4
64 .1	63 .5
Iul-19	Αμσ-19

Figure 2



DO: Intervention

To better delineate and coordinate team roles and responsibilities, a swim lane diagram (Figure 3) was created early in the process. It has been periodically adjusted to accommodate for role changes and additions over the course of the project. reflecting ongoing PDSA cycles to improve the intervention based on data findings.



CHECK: Metrics & Outcomes

Outreach and Patient Engagement: # of contacts made compared to number of eligible patients, # of appointments made and kept; # of patients lost to follow-up Figure 4 See Figures 4 and data analysis below:

800 -

600

- Patient engagement is expanded using CHW role and skills for outreach
- Outreach conducted to **1009 patients** meeting eligibility criteria
- 37% of outreach attempts resulted in patient enrollment (375/1009)
- 52% of enrolled patients are currently at goal (194/375)
- 30% active patients remain uncontrolled (113/375)
- **18%** lost to follow up (68/375)
- **5.8%** Food Insecurity Screening (22)

Blood Pressure control: Data for the ongoing effectiveness of BP control 6-12 months after completing the Exp BP program is illustrated in Fig, 5 with accompanying analysis. Figure 5 August 2020 to August 2021 **Blood Pressure Changes**

- Clinics vs. Compared Express BP Alternative Detroit-Based Clinic w/o Express BP service
- Approximately 54% of patients remained in control for 6-12 months post discharge from the Express BP clinics versus 48% from non-Express BP clinics
- 70% of patients given a BP cuff maintained BP control 6-12 months post-discharge versus 57% of patients without BP cuff

Medication Adherence: This metric was monitored to identify patient follow through with the medication regimes based on the interventions employed by the Pharmacist. (Fig. 6)

neurcation regimes based on un	e mierventions empr
Baseline (n=111), n (%)	Adherence Measures Addres
 Unclear (1) 1% No (57) 51% 	 Education Refilled blood pressure medications Switched medication du effects or cost

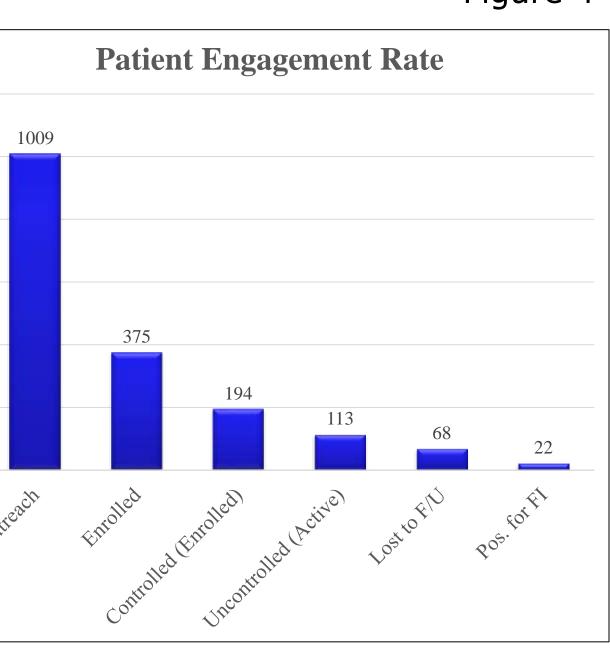
Yes (53) 48%

• Simplified regimen

• Enrolled in Pharmacy

Advantage

• Provided pillbox, pill packs



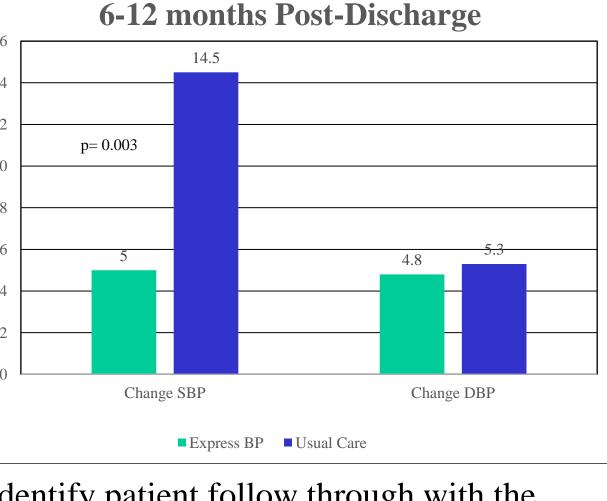
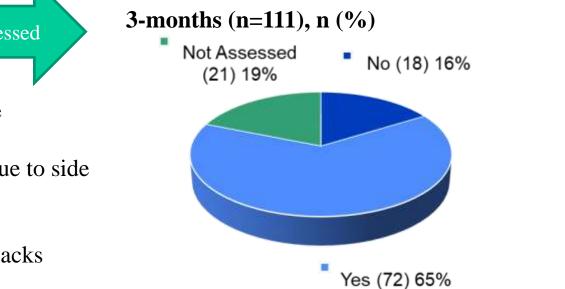
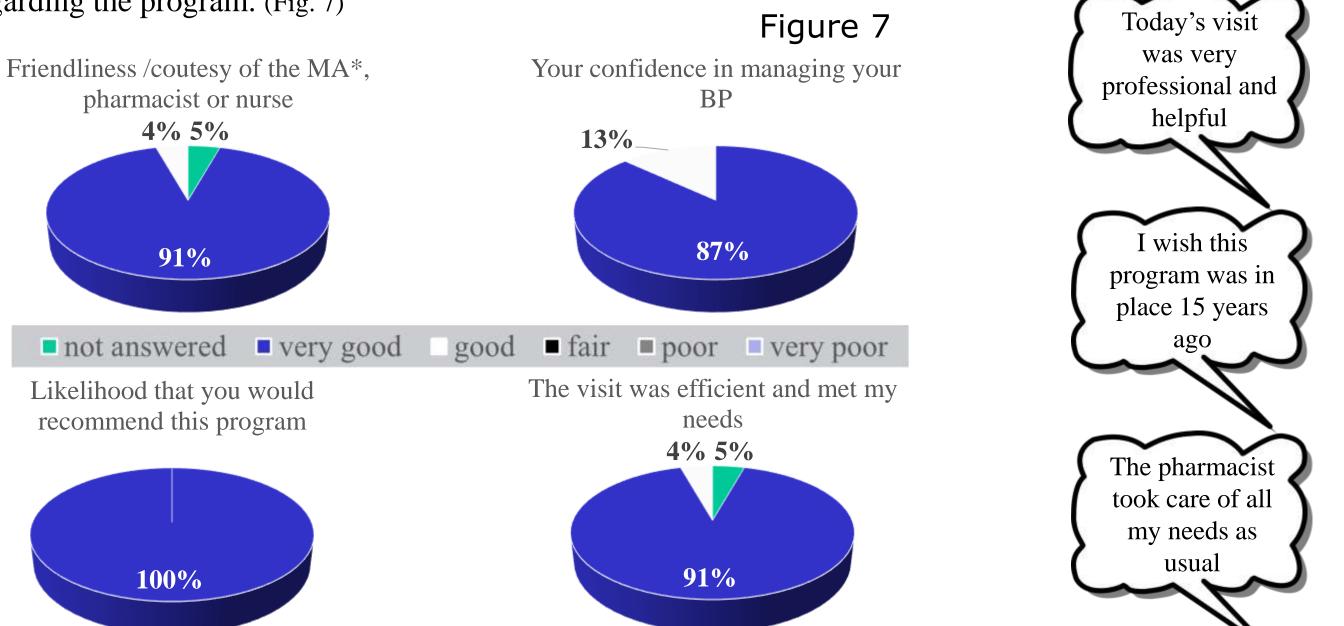


Figure 6



regarding the program. (Fig. 7) Friendliness /coutesy of the MA*,



Food Insecurity (FI): 2% of patients identified as positive for FI per the SDOH survey. Referrals were made to Case Management for help in locating healthy food sources from local pantries/banks.

A	ACT: C
Patient Engagement	 Cipher Health Automate 80 patien 86% (n=6) text mess 28% (n=7) was creat Based on terminate HTN Navigat following a state eligible patient Community patient
Blood Pressure Control	 Creating continue as well as home monor fund created by the second second
Med Adherence	• Expande
Expansion	• The prog

Spread and Sustainability

Next steps for the project include the development of a plan for **spread and sustainability**: • Convened a leadership team to discuss components of spread plan for System support • Finalize the plan for BP monitor distribution until insurance coverage is wider.

- Expand sites and populations, adding female patients.

Finally, A Patient's Own Story...Mr. Mark J. (right) was identified by telephonic outreach as meeting eligibility criteria for the Exp BP Program. His blood pressure was 179/109 at the initial visit. The Clinical Pharmacist discovered that he was not taking his meds. It took 2.5 months to achieve goal being seen every 2-4 weeks with two consecutive blood pressure readings < 130/80. He opted to remain in the program an additional month (two visits) to ensure that he maintained control. He was able to resolve adherence barriers, obtain needed education, and get to goal.

. Centers for Disease Control and Prevention. A Closer Look at African American Men and High Blood Pressure Control: A Review of Psychosocial Factors and Systems-Level Interventions. Atlanta: U.S. epartment of Health and Human Services; 2010 . Centers for Disease Control and Prevention. 2020. Chronic Disease Prevention and Health Promotion: Heart disease and stroke . Benjamin EJ, Blaha MJ, Chiuve SE, et al. Heart disease and stroke statistics — 2017 update: a report from the American Heart Association. Circulation. 2017. 135 (10):e146-e603.





CHECK: Measures & Results

Patient Satisfaction Feedback: Items were measured: Patient experience; patient confidence in selfmanaging their BP after participation. Anecdotal comments are also included to reflect patient perceptions

Changes Implemented

h technology was piloted:

ted, scripted phone call/texting features

nts were contacted in this manner in June 2023

=68) engaged with automated communication by either reading the sage or listening to the automated voice call

=19) indicated interest in Exp BP program. An informational flier ted to promote patient understanding/engagement in the program. the lower than desired level of engagement, the process was ed, and another automated outreach tool is being explored.

tor: Replaced the CHW role due to attrition. Site level MAs tandardized workflow and talking points to conduct outreach to nts on evenings/Saturdays.

partnership created with the Detroit Assn. of Black Orgs. (DABO)

a sustainability plan regarding BP monitor distribution to self-management activities. A "tiered" plan based on financial need as a partnership with the Home Care division of HFH with electronic onitoring device distribution. Primary Health Innovation & Equity reated as part of the Employee and Physician Giving campaign.

n of an RDN Master's student to serve as a nutritional consultant to DASH (Dietary Approaches to Stop Hypertension) diet education. desired more clarity about what to expect during a visit to the

BP clinic. An informational flier was created to provide specifics. tial mapping: Generated to help identify causative factors for lack of to screening calls and factors impacting blood pressure control.

ed pill box distribution to promote consistency in taking meds. gram was expanded to the Ford Rd. IM Clinic in 2023.

• Create a **universal database** for all support team members re: patient status

• Continue with periodic team meetings to ensure consistency in communication.