Ensure you've connected to audio!

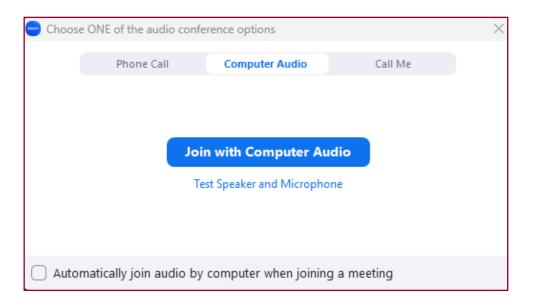
Option 1: "Call In"

Follow the process for the A) Phone Call or B) Call Me options

Option 2: "Use Computer Audio"

You must have computer speakers and microphone





After connecting, if you don't see a phone/headset icon next to your name in the attendee list, please attempt to connect your audio again!



www.nachc.org

Million Hearts® Self-Measured Blood Pressure Monitoring (SMBP) Forum

September 14, 2023

1:00-2:00 PM EST

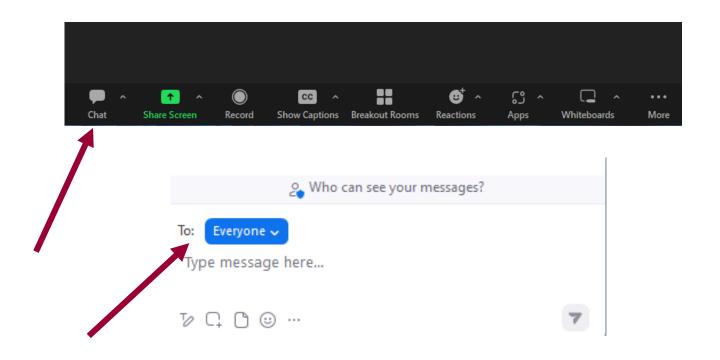


How to Chat

The chat feature is available to pose questions to the group or make comments anytime throughout today's webinar.

Submit to "**Everyone**" and click the send button.

Introduce yourself!
Where are you joining us from?
Share your questions!





Disclaimer

The opinions expressed by authors contributing to this project do not necessarily reflect the opinions of the US Department of Health and Human Services, the Public Health Service, the Centers for Disease Control and Prevention, or the authors' affiliated institutions. Use of trade names is for identification only and does not imply endorsement by any of the groups named below.



Agenda

- Welcome, Introductions, and Agenda Overview
- Featured Presenters
 - Laney Poye, Preeclampsia Foundation
 - Wendy Martinson, MSN, RN UConn Health SMBP for Pregnant Women
 - Breana Turner, MPH, CHES Huddle Up Moms
- Open Discussion
- Resources and Updates



Today's Objectives

- Highlight the importance of support to pregnant and postpartum women in managing hypertension.
- Discuss support that can be provided by community organizations.
- Hear from you all about tools, program, connections you may have in this space.



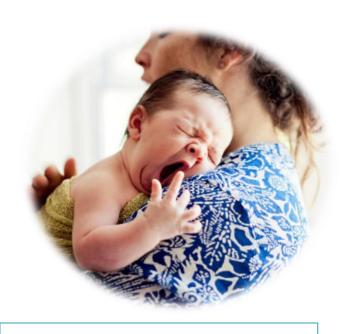


What does it take? SMBP Tasks by Role

Must Be Done by a Licensed Clinician	Can Be Done by a Non-licensed Person (e.g., medical assistant, local public health department, community health organization, community health workers)	Must Be Done by Patient
 Diagnose hypertension Prescribe medication(s) Provide SMBP measurement protocol Interpret SMBP measurements Medication titration Lifestyle modification recommendations 	 Provide guidance on home blood pressure (BP) monitor selection If needed, provide home BP monitor (free or loaned) Provide training on using a home BP monitor Validate home BP monitor against a more robust machine Provide training on capturing and relaying home BP values to care team (e.g., via device memory, patient portal, app, etc.) Reinforce clinician-directed SMBP measurement protocol Provide outreach support to patients using SMBP Share medication adherence strategies Provide lifestyle modification education Optional Tasks: Reinforce training on using a home BP monitor Reinforce training on capturing and relaying home BP values to care team Reinforce knowledge of behaviors that can trigger high blood pressure 	 Take SMBP measurements Take medications as prescribed Make recommended lifestyle changes Convey SMBP measurements to care team

WWW.NACHC.ORG TWITTER: @NACHC

The Cuff Kit™ Project







The Cuff Kit



June 2020-ongoing



Cuff Kit Project Goals

- Empower pregnant and postpartum patients to recognize and report symptoms and signs
- Educate patients and families on accurate self-measured blood pressure (SMBP)
- Support reduction of noted disparities and COVID-19 effects
- Support outpatient monitoring and management of BP
- Collect data to demonstrate efficacy and cost effectiveness
 - Diagnosis and management processes
 - Prenatal and postpartum care
 - Payor coverage



The Cuff Kit

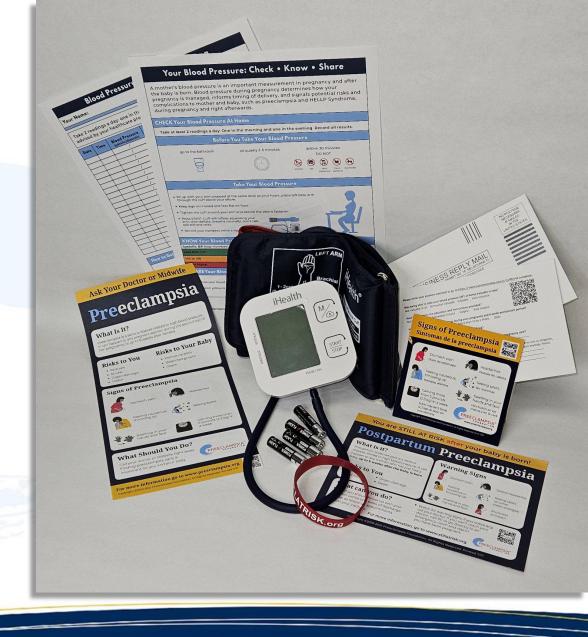


- BP Monitor & Batteries
- Instructions including link to online video and website
- Tracking Log
- Signs and symptoms education
- Postpartum preeclampsia information
- "Still at Risk" rubber bracelet
- Patient feedback postcard











Automated blood pressure monitor/cuff with batteries







Your Blood Pressure: Check • Know • Share

A mother's blood pressure is an important measurement in pregnancy and after the baby is born. Blood pressure during pregnancy determines how your pregnancy is managed, informs timing of delivery, and signals potential risks and complications to mother and baby, such as preeclampsia and HELLP Syndrome, during pregnancy and right afterwards.

CHECK Your Blood Pressure At Home

Take at least 2 readings a day: One in the morning and one in the evening. Record all results.

Before You Take Your Blood Pressure

go to the bathroom

sit quietly 3-5 minutes

Within 30 minutes









Take Your Blood Pressure

- Sit up with your arm propped at the same level as your heart, place left bare arm through the cuff above your elbow.
- · Keep legs uncrossed and feet flat on floor.
- · Tighten the cuff around your arm and secure the Velcro fastener.
- Press START. Cuff will inflate, squeezing your arm, then deflate. Breathe normally, don't talk, still still and relax.
- · Record your numbers twice a day





KNOW Your Blood Pressure

Systolic BP (top number)		Diastolic BP (bottom number)	
Less than 140	and	Less than 90	Normal
140 to 159	or	90 to 109	Call your healthcare provider
160 or higher	or	110 or higher	Seek immediate medical attention

SHARE Your Blood Pressure

- Discuss your blood pressure log at all prenatal and postpartum appointments.
- Act upon yellow or red zone numbers right away. Don't wait for a scheduled appointment





© 2020 Preeclampsia Foundation

*Also available in Spanish, French, Haitian Creole, Arabic, Burmese, Kirundi, Pashto, Somali, Swahili, Ukrainian

Blood Pressure Instructions and Log

Your Name:

Take 2 readings a day: one in the morning and one in the evening, or as advised by your healthcare provider. Record all results below.

Date	Time	Blood Pressure systolic/diastolic	Heart Rate (pulse)	Date	Time	Blood Pressure systolic/diastolic	Heart Rate (pulse)
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How to Get Help (record local contact information here)

Blank forms, an instructional video, and additional resources are available at www.preeclampsla.org/blood-pressure.

HEALTH CARE DISCLAIMER: This program, related materials and services do not constitute the practice of medical advice, diagnosis or treatment. The quality of an at home reading is dependent on both the method and equipment. Always talk to your health care provider for diagnosis and treatment, including your specific medical needs. If you have or suspect that you have a medical problem or condition, please contact a qualified healthcare professional immediately. If you are in the United States and experiencing a medical emergency, call 911 or call for emergency medical help immediately.



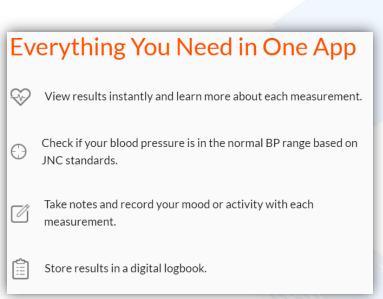
www.preeclampsia.org

Blood Pressure Log



iHealth App











Learn more and contact us



Laney Poye
Director of Communications and Engagement
Laney.poye@preeclampsia.org

cuffkit@preeclampsia.org

www.preeclampsia.org/the-cuff-project



Million Hearts

UConn Health SMBP for Pregnant Women
Wendy Martinson
wemartinson@uchc.edu



UConn Health background



UCONN Health's Maternal-Fetal Medicine practice is the only high-risk physician practice in the Hartford area, serving a large portion of low-income women.

Although Medicaid covers SMBP only 53.85% of our pregnant Medicaid population picked up their BP cuff at their pharmacy/DME provider.

Payers have varying coverage (cost cap/no coverage) for SMBP.

In 2021 our maternal population was:

- 44% Maternal population had Medicaid
- 26% High-risk
- 3,772 Pregnancies
- 1,663 Low-income Medicaid
- 745 Women declined to identify race
- 691 Women identified as Black, African American,
 Indian or Alaskan Native
 - These races are 2-3 times more likely to die from pregnancy related causes than white women, disparity increases with age
- 963 High risk pregnancies



Million Hearts Grant Proposal

In real-time provide Preeclampsia Foundation Cuff Kit™
to at risk and high-risk maternal women and offer
telephonic pharmacist consult for education and
counseling for maternal women with questions related to
aspirin or cardiac medications



SMBP project description

- Screening in Epic for at-risk/high risk maternal women who should have SMBP (inpatient/outpatient)
- If positive screening provide Cuff Kit[™] in real time along with education
- Telephonic pharmacist consult for maternal women hesitant to take prescribed ASA or BP medication to promote adherence
- Community Health Specialist to assist with SDoH

Screening questions:

- 1. Is the patient at risk for HTN, HTN, preeclampsia, post-partum preeclampsia?
- 2. Is the patient Black, African American, American Indian/Alaskan Native? (This population will receive a cuff kit regardless of diagnosis).
- 3. Did the provider identify another high-risk condition in need of a cuff kit?



Preeclampsia Foundation Cuff Kit™

Cuff Kit™ includes:

- 1 Bluetooth enabled monitor
- 1 Arm cuff, standard (8.6 16.5 inches) or extra large (16.5 - 18.9 inches)
- Welcome letter with QR code for instructional/informational video
- "Still At Risk" bracelet
- BP log, instructions form
- Preeclampsia Signs & Symptoms brochure
- Postpartum Signs & Symptoms brochure
- Feedback postcard
- *Everything in the kit is bilingual (English/Spanish)









EPIC Documentation & Tip Sheets



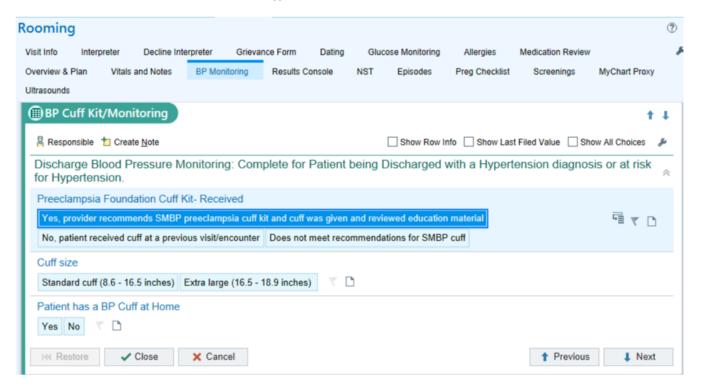
How to document in Epic - Cuff Kit was offered/given

If patient qualifies for BP Cuff Kit, document in the Rooming Tab → BP Monitoring Flowsheet



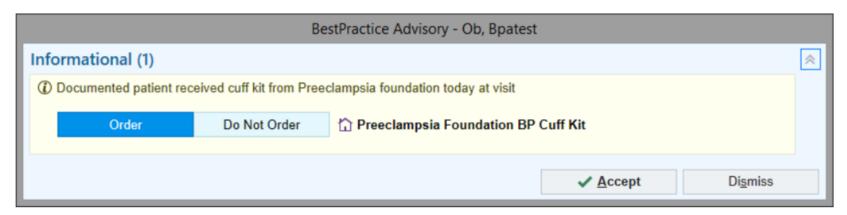


- 2) **Complete documentation**: (documentation is required for reporting to grant)
 - a. Document whether BP Cuff Kit was given, if yes document size of cuff
 - b. If patient was offered BP Cuff Kit, but declined because they already have a cuff at home, document *Patient has a BP Cuff at home: Yes.*

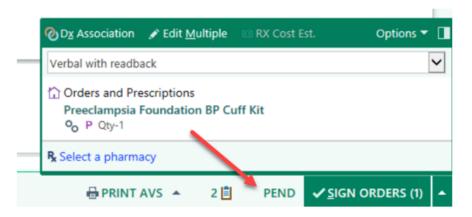




- 3) If BP Cuff Kit was given to patient is documented, BPA will fire to place order for BP cuff. This order will not route to a pharmacy. This is required for insurance purposes for quality programs.
 - Click accept; and Sign order.

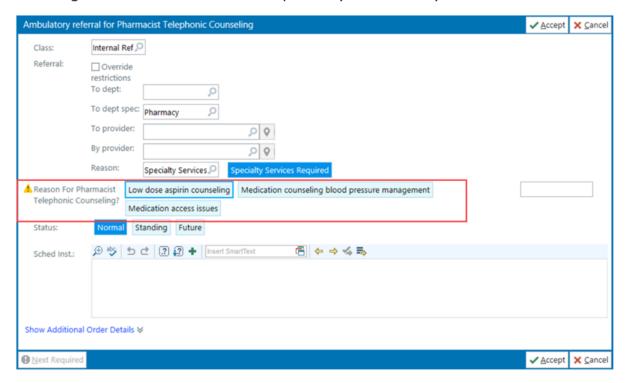


b. **if RN clicks the flowsheet row, the BPA will fire with order, and they will PEND order for physician to sign**



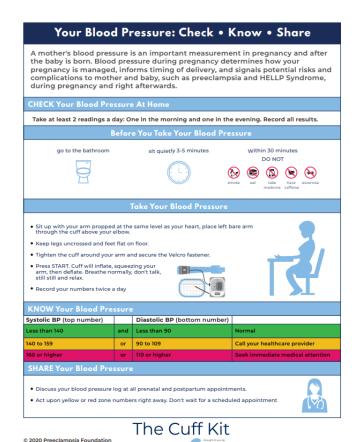


- 4) **New referral order** is available for a Pharmacist Telephonic Consult with Population Health Pharmacist Jillian Carey.
 - a. If clinician determines patient would benefit from a pharmacist consultation place order for Ambulatory referral for Pharmacist Telephonic Counseling
 - b. Select Reason:
 - i. Low dose aspirin counseling
 - ii. Medication counseling blood pressure management
 - iii. Medication access issues
 - c. Document any comments if necessary for pharmacist.
 - d. Sign referral. This order will route specifically to Jillian Carey.





Added to Epic English & Spanish



Blood Pressure Instructions and Log

Your Name:

Take 2 readings a day: one in the morning and one in the evening, or as advised by your healthcare provider. Record all results below.

Date	Time	Blood Pressure systolic/diastolic	Heart Rate (pulse)		Date	Time	Blood Pressure systolic/diastolic	Heart Rate (pulse)
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How to Get Help (record local contact information here)

Blank forms, an instructional video, and additional resources are available at www.preeclampsia.org/blood-pressure.

HEALTH CARE DISCLAIMERT This program, related materials and services do not constitute the practice of medical advice, diagnosis or treatment. The quality of an at home reading is dependent on both the method and equipment. Always talk to your health care provider for diagnosis and treatment, including your specific medical needs. If you have or suspect that you have a medical problem or condition, please contact a qualified healthcare professional immediately. If you are in the United States and experiencing a medical empergency, call \$10 or call for emergency medical help immediately.



www.preeclampsia.org





Results

- EPIC Report
 - -212 cuffs provided from April 2023-July 30, 2023
- Huge staff satisfier
- Convenience for patient
- 0 Pharmacist consults

American Indian or	
Alaskan Native	2
Asian	7
Black or African	
American	72
Hispanic or Latino	55
Other	5
Unknown	3
White	68

38	Total C-Section
30	38

Number
4
1
1
6

Twins	Result		
Delivered	6 sets of twin live births		
Pregnant	3		



Results to Date

- 212 total women enrolled
- 49 babies delivered at 37 weeks or earlier
- 97 women remain pregnant
- 117 live births to date

Week	Number	Result
11 weeks	1	Miscarriage
16 weeks	1	Fetal demise
19 weeks (termination)	1	Termination for congenital
22 weeks	1	Fetal demise
30 weeks	1	Live
31 weeks	2	Live (twins)
32 weeks	3	Live (1 set twins)
33 weeks	2	Live (twins)
34 weeks	3	Live
35 weeks	2	Live
36 weeks	8	Live
37 weeks	28	Live (1 set twins)
38 weeks	24	Live (2 sets twins)
39 weeks	29	Live
40 weeks	11	Live
41 weeks	2	Live
HIPAA-could not access record unsure		
of weeks	1	Live
Transfer to UConn Post Delivery-Baby		N/A-delivered at previous
needed our NICU	1	hospital
Currently pregnant	97	N/A
Live births	117	
Fetal demise/miscarriage/termination	4	Fetal demise



Challenges and pivots

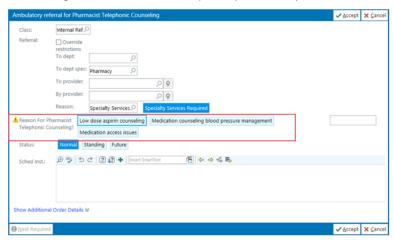
- Large volume of standard BP cuffs vs. large/xl
- Referrals for Pharmacist consult
 - Order in Epic
 - Epic tipsheet
 - 2 reminder emails sent to providers
- Report development
- Work around with DSS to capture BP Cuff given for quality P4P Program

OB and Womans Health

As part of the Million Hearts grant, if your patient has questions or needs additional education on their low dose aspirin or high-risk pregnancy related medications you can now order a telephonic pharmacist consult.

New referral order is available for a Pharmacist Telephonic Consult with Population Health Pharmacist Jillian Carey.

- a. If clinician determines patient would benefit from a pharmacist consultation place order for Ambulatory referral for Pharmacist Telephonic Counseling
- b. Select Reason:
 - Low dose aspirin counseling
 - ii. Medication counseling blood pressure management
 - iii. Medication access issues
- c. Document any comments if necessary for pharmacist.
- d. Sign referral. This order will route specifically to Jillian Carey.





Sustainability and spread

- Working with our Pharmacy Department to become a contracted provider to dispense BP cuffs
 - If payer covers will dispense cuff and charge insurance
 - If no coverage will provide free cuff
- Working with UConn Foundation for ongoing financial support



Lessons Learned

- Engaged Physician leader & Epic Analysts
- Leverage EMR
 - EPIC team (inpatient & outpatient)
- Order Cuff Kit[™] early
 - Delays from UConn and vendor due to workflows
 - Standard cuff size fits majority of our population
- Providers did not utilize telephonic pharmacist consult
- Frequent marketing follow up
- Happy staff



https://today.uconn.edu/2023/07/uconn-health-receives-50000-million-hearts-health-equity-grant,



Final thoughts

- Once Epic build and report was completed program ran efficiently
 - Make workflow simple
 - Strategic placement of documentation in the Epic flowsheet
 - Location should be with all screenings
 - No additional clicks or searching in Epic
- Workflow was easily adapted by the MA and RNs
- Simple process for providers to place Cuff Kit order



Thank you to the Million Heart Team for the grant funding and the ongoing support to make our program successful.









HUDDLE UP MOMS

EDUCATE | CONNECT | SUPPORT



Huddle Up Moms

Mission

To empower all mothers in the Roanoke and New River Valleys through education, meaningful connections, and community support.

Vision

A future in which all mothers have the support they need to be healthy, happy, and confident to flourish in all areas of their lives

HUDDLE UP MOMS

EMPOWER

EDUCATE

Educational Panels Workshops & Seminars

Monthly Blog Posts

Women's Resource Summit

SUPPORT

Mom Huddles

Mom Mentorship Programs

Community Donations

Scholarship Opportunities

CONNECT

Fuel Community Partnerships

> Resource Directory

Networking Events

Raise awareness and increase access to community resources

COMMUNITY



Our HER-Story

Huddle Up Moms key events



Huddle Up Moms Established

2020 Received 501c3 status

Began with virtual Huddles, which are support groups

2022 Awarded the VHHA grant to pilot Moms Under Pressure

Huddle Up Moms Impact



Mom Huddles

14

Mom Huddles – Inperson support groups that include LGBTQ+, Single Moms, etc. huddles



Formula Distribution

17k

Over \$17k distributed in baby formula for families since 2022



Women Summits

4

Women's Summits
aimed at empowering,
educating, and
supporting women
withing the Roanoke
region



Exchange Programs

4

Quarterly programs to offer a safe space for moms to explore hot topics in motherhood & beyond



Moms Under Pressure

Huddle Up Moms

Pregnancy & Hypertensive Disorders

- Hypertension is a common condition in pregnancy 1 in 12 pregnancies
- Preeclampsia occurs in 1 in 25 pregnancies
- HELLP Syndrome 1 in 1,000 pregnancies

Long Term Impacts

Those who don't have an early interventions are more likely to die of a cardiac-related episode later on in life

Moms Under Pressure helps preserve life for those who bare life





A Community Health Approach

1

Self-Enrollment

MUP program allows for pregnant persons and women to enroll themselves or we accept referrals

2

Education & Empowerment

Individuals enrolled will receive a cuff kit and access to educational materials and workshops

3

Community Engagement

Stakeholder involvement is essential to improving maternal health outcomes



MUP Program Flow

Referral into the program or self enroll



MUP participant receives registration material



MUP participant receives cuff kit



MUP participant will complete the pre-educational survey



Care coordinator maintains contact throughout the 4th trimester



Participant completes post educational survey

MUP Program Flow With Community Partners

Community Partner supplies the cuff kit and completes registration with pregnant person



MUP participant receives cuff kit and warm hand off to MUP program director is initiated



MUP program director makes connection with participant



MUP participant will complete the pre-educational survey



Care coordinator maintains contact throughout the 4th trimester



Participant completes post educational survey







Clinical Partnerships







Community Partnerships

Moms Under Pressure Community Outreach & Partnerships



The Motherhood Collective Partnership



Empowering Healthy Family's Roanoke Valley Partnership



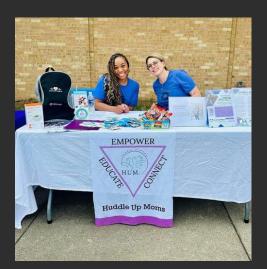
CHIP of Roanoke Valley
Partnership



Huddle Up Moms Women's Resource Summit



Casa Latina Partnership



Envision Center Outreach



Roanoke College Employee Wellness Fair



Roanoke Library Parent Resource Fair



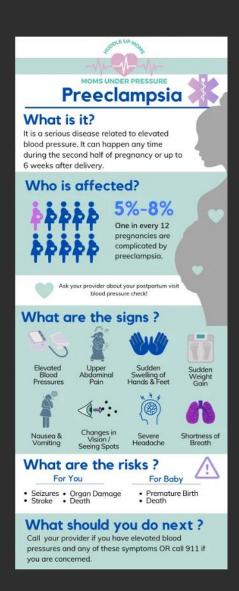
Moms Under Pressure

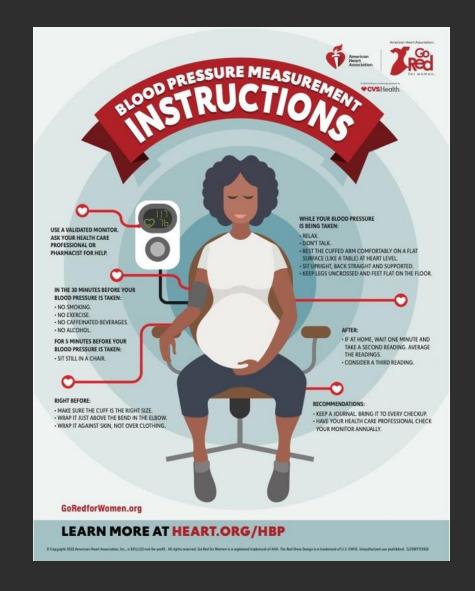
Establishing the Program: Surveys built (equity focus), cuff kits created, media push, educational materials, stakeholders meetings

Phase 1: Launched March 15th emphasis on self-enrollment

Phase 2: Community partnership emphasis & inclusion criteria pivoted to include anyone who is pregnant and not just diagnosed

Phase 3 Current Phase: Clinical emphasis and expansion











allysonfelix These are my teammates. We are Olympic champions. Three of us tried to give birth. Two of us experienced near-death complications. One of us died. We have to, and we will do more. Tori's death cannot and will not be in vain



U.S. Olympian Tori Bowie May Have Died From Eclampsia. What to Know



An autopsy report shows that track and field star Tori Bowie died during childbirth, citing eclampsia as a possible cause. Marco Mantovani/Getty Images

Importance of MUP

Original Research

Association of a Remote Blood Pressure Monitoring Program With Postpartum Adverse Outcomes

Adi Hirshberg, MD, Yifan Zhu, PhD, Aaron Smith-McLallen, PhD, and Sindhu K. Srinivas, MD, MSCE

Research article | Open Access | Published: 31 May 2022

Self-monitoring of blood pressure among women with hypertensive disorders of pregnancy: a systematic review

<u>Ping Teresa Yeh, Dong Keun Rhee, Caitlin Elizabeth Kennedy, Chloe A. Zera, Briana Lucido, Özge</u>
Tunçalp, Rodolfo Gomez Ponce de Leon & Manjulaa Narasimhan ⊠

BMC Pregnancy and Childbirth 22, Article number: 454 (2022) | Cite this article

2860 Accesses | 2 Citations | 3 Altmetric | Metrics

Abstract

Background

The World Health Organization (WHO) recommends self-monitoring of blood pressure (SMBP) for hypertension management. In addition, during the COVID-19 response, WHO guidance also recommends SMBP supported by health workers although more evidence is needed on whether SMBP of pregnant individuals with hypertension (gestational hypertension, chronic hypertension, or pre-eclampsia) may assist in early detection of pre-eclampsia, increase end-user autonomy and empowerment, and reduce health system burden. To expand the evidence base for WHO guideline on self-care interventions, we conducted a systematic review of SMBP during pregnancy on maternal and peopatal outcomes.

An autopsy report shows that track and field star Tori Bowie died during childbirth, listing eclampsia and respiratory distress as possible causes.

One of the CHIP nurses took the blood pressure cuff kit to a home visit with a pregnant mom, which saved the mom's and baby's lives that day. The mother had been concerned about her pregnancy health for weeks, and the doctor had not taken her concerns seriously. Then, during the home visit day, the nurse took her blood pressure and realized a significant problem. The Mom was rushed to the doctor's office, tests were run, they had an emergency delivery, and the baby had to be resuscitated. Both the mother and the baby are recovered now, and she is extremely grateful for the MUP cuff kit.

















"Hi Breana! It's been very helpful. It's helped confirm that my BP doesn't just go up when I go to see my practitioner, and it helped me determine that I needed to go in and get help after hours last week. It turns out I was just dehydrated, but being able to check my BP at home helped me narrow down the problem and get the help I needed."

"Hi! It's so simple and easy to use and has greatly helped me monitor my blood pressure, which thankfully has gone down! I appreciate you all!"



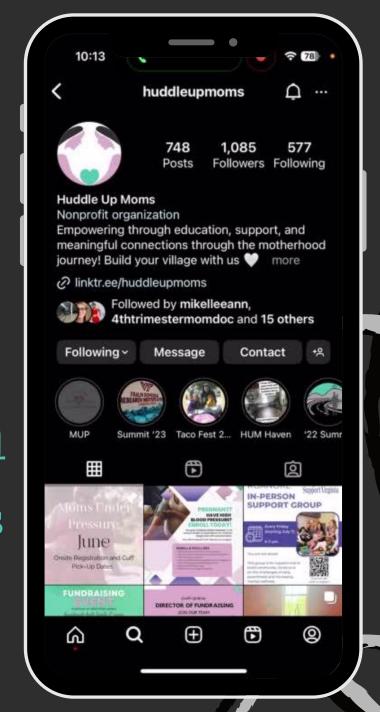
We were able to hand out a few of those kits during a couple of events at Casa Latina. One of them was on Mother's day where moms got nice haircuts, make-up, and nail polish. We welcomed two pregnant moms who, after being pampered by Casa Latina volunteers, also received blood pressure cuffs and HUM kits as a 'present.' The moms were really excited and grateful since high blood pressure has been a serious concern during their pregnancies. Now, they would be able to monitor their blood pressure and stay healthy!



MUP Social Media

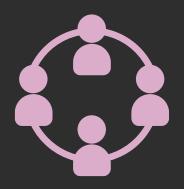


@HuddleUpMoms



Scan to follow us on social media!

IMPACT





Community Partnerships



2

Pending Clinical Partnerships



6

Community
Outreach Events





Cuff Kits Distributed



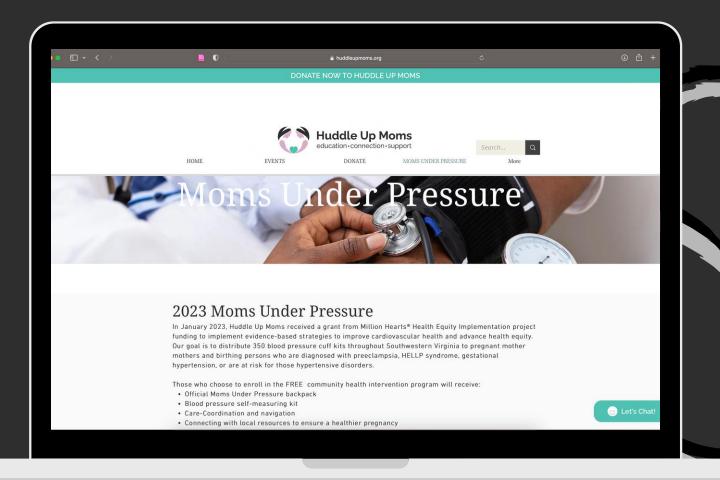


Lives Impacted

Scan for the website!

Breana Turner, MUP Director Hum.Pressure@HuddleUpMoms.org

Stay Connected!



Updates



US Blood Pressure Validated Device Listing Updates

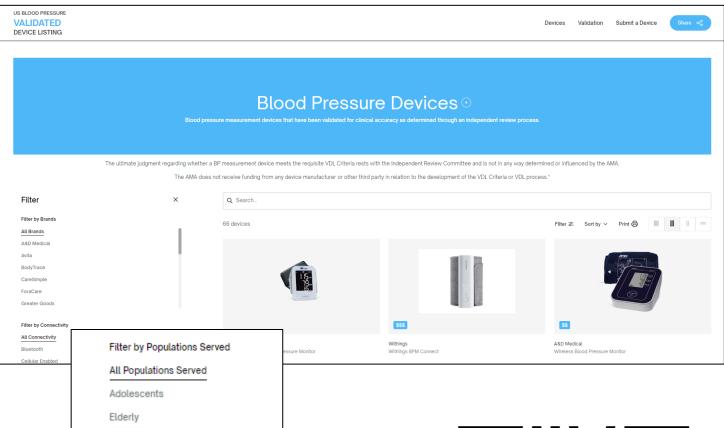
Nar Ramkissoon, MPH
American Medical Association





Listing page updated!

- Search and filter
- More device details (price range, XL cuffs, connectivity)
- Improved print and sharing functions



New filter: Devices validated for accuracy in pregnant population

- 2 devices listed, 5 total approved
- Encouraging additional testing and submissions from device manufacturers



See the VDLTM at <u>ValidateBP.org</u>

General Adult

Pediatrics

Pregnant

Medical conditions



Upcoming Million Hearts® and Partner Events

Date/Time	Title	Host	Live Audience	Links or Contact Information
September 13-15, 2023	38th American Association of Cardiovascular and Pulmonary Rehabilitation Annual Meeting	AACVPR	Cardiopulmonary Rehabilitation Professionals	Registration Link
September 21, 2023 12:00-1:00pm ET	Target:BP Webinar: Measuring Blood Pressure Accurately – Step 1 in Hypertension Control	AMA/AHA	All partners	Registration Link
October 26, 2023 9:00am ET	2023 Annual Meeting - National Forum for Heart Disease & Stroke Prevention	National Forum	All partners	Registration Link
November 15, 2023 2:00-3:00pm ET	National Hypertension Control Initiative (NHCI) Primary Care Association #10	AHA NHCI	All Partners	Registration Link

We Want to Hear From You!

Do you have resources or updates to share with the Million Hearts® SMBP Forum?

Please send information to MillionHeartsSMBP@nachc.org





Thank You!

The next SMBP Forum to be held December 14, 2023.

Register at https://bit.ly/SMBPForumRegistration2023



Please complete the post call survey:

https://nachc.co1.qualtrics.com/jfe/form/SV_8v8E6mJxryXOYya

Send questions or comments to MillionHeartsSMBP@nachc.org.

