A Roadmap for Better Hypertension Control: Approaches & Tools to Address the "Silent Killer" November 17, 2023 Tim Nikolai, Sr. Rural Health Director, Midwest Region	
Disclosures	
I have no financial relationships to disclose. I am not a medical professional but will provide insights and answer questions to the limits of my knowledge. American Meart Association.	
American Association.	
Every person deserves the opportunity for a full, healthy life. As champions for health equity* , by 2024, the American Heart Association will advance cardiovascular health for all, including identifying and removing barriers to health care access and quality.	
Addressing the drivers of health disparities, including the social determinants of health, structural racism, and rural health inequities, is the only way to truly achieve equitable health and well-being for all.	

CVD Risk Targets & Event Risks

Percent CVD risk reduction for being at target level among 2018 persons with diabetes for each of the measures:

Blood pressure	LDL-C	HBA1c
17%	33%	37%

Percent lower adjusted risk of CVD events with one, two, or three risk factors at target level:

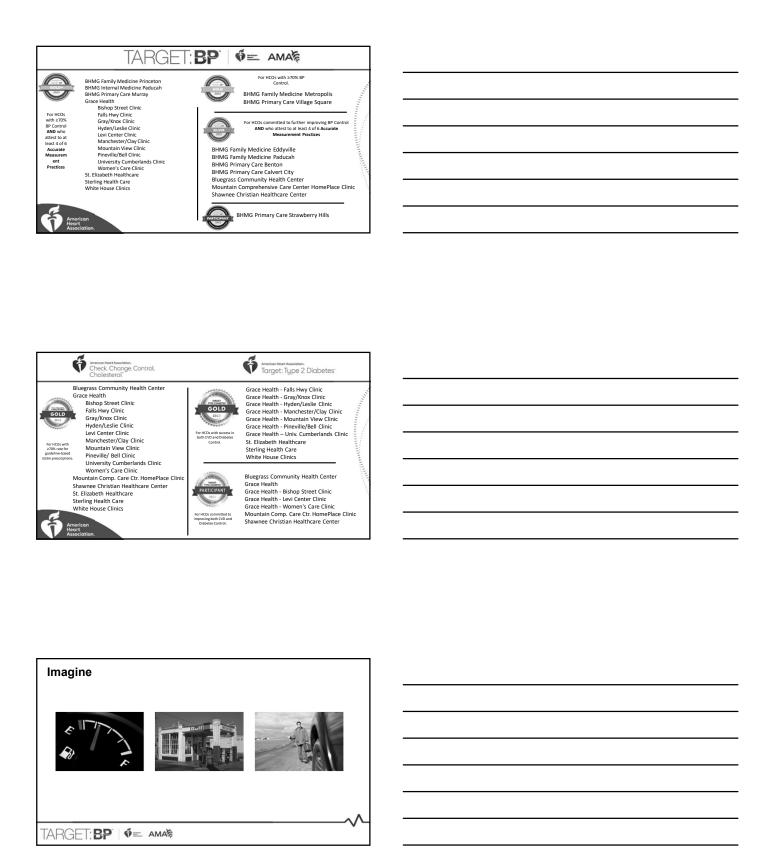
Any 1 of 3	Any 2 of 3	3 of 3
36%	52%	62%



Wong, et al. Diabetes Care 2016 May, 39(5) 668-676. Incident of CVD was defined as MI, CHD death, cardiac procedure (PCI, CABG, or coronary revascularization), stroke, or HF.

High Blood Pressure in Kentucky To be the blood Pressure in the high blood To be the blood Pressure in the

Our Work in Ambulatory Quality - Provide clinical guidelines and protocols. - Offer free resources directed towards both providers and patients. - Connect clinical partners to others around the country engaged in the same work. - Offer recognition opportunities for any health care organization that demonstrates a commitment to, and/or achieves, clinical excellence. - Registration for program(s) can be completed at heart.org/registermyoutpatientorg - American Heart Association. - Outpace CVD



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AMA MAP Framework	
All 3 are critical for control	
Measure Accurately every time to obtain accurate, representative BPs, reducing clinical uncertainty Measure Measure Therapeutic Act	
Accurately (Inergeous and treat hyportonsia) Rapidly	
reducing diagnostic and therapeutic inertia	
Partner with patients to activate patients to self-manage, self-monitor, and promote adherence to treatment	
Partner with Patients	
https://targetbp.org/tools_downloads/combined-quick-start-guides/	
TARGET: BP = AMAS	
	1
MEASURE ACCURATELY	
TARGET: BP 6 == AMA%	
*	
Knowledge Cheek #4	
Knowledge Check #1	
How often should all staff be trained in BP Measurement?	
a) Only upon hire during new employee orientation	
b) Every 6-12 months	
c) Every 2 years	
d) Every 5 years	
e) Unsure	
TADOCTI DD (4- Aug	

What factors influence the safety of a journey?	
Safe Car Validated and Calibrated Devices	
Safe Driver Team training and technique	
Safe Road Care Environment & Process	
TARGET:BP V = AMAR	

Evidence-based BP Activities		
Equipment Calibration & Validation		
Calibrate all BP measurement devices		
2) Check to see if devices are validated, report % validated		
Staff Knowledge & Skills		
3) Strengthen staff knowledge every 6-12 months	EVIDENCE-BASED BP ACTIVITIES *** *** *** *** *** *** ** **	
4) Test staff skills every 6-12 months	Equipment cultivates 4 unitation 1 states of the recognised above, or mandature incommendate military result around a sold materia, any exemption (a file) solventer or any place of the last the file of the fil	
System of care		
5) Use a protocol ensure accurate BP measurements including confirmatory readings		
6) Post a positioning graphic next to every BP monitoring device		
TARGET:BP 6 = AMA	14	

Selection and Care: Is your equipment accurate? Validation Calibration Aneroid sphygmomanometers every 2-4 weeks for handheld devices every 2-4 weeks for handheld devices every 2-4 weeks for handheld devices every 3-6 months for wall-mounted devices every 3-7 months for wall-mounted devices every 3-6 months for wall-mounted devices every 3-7 months for wall-m

Training & Technique: Is your team prepared?	
When the patient has: Blood pressure can change by an estimated *:	
Crossed Legs 2-8 mm Hg [±] ***********************************	
Cuff over clothing 5-50 mm Hg² Cuff too small 2-10 mm Hg²	
Full bladder 10 mm Hg ²	-
Talking or active listening 10 mm Hg ²	
Unsupported arm 10 mm Hg ^{1,2}	
Unsupported back / feet 6.5 mm Hg ³	
*Theoretical extraction of the Committee	
These relates are not complicite: The complication of the complic	
ARGET BP 6 = AMA Technique Quick Check Tool In-Office Positioning Graphic	
Care Environment: Is your team set up for success?	
Care Environment: is your team set up for success?	
• Quiet	
Chairs with back support are available	
Hard surface at heart level to rest BP arm is	
available Stool or foot support is	•
available to ensure feet are supported on a flat	
surface If manual BP device is	
used, gauge or dial at eye level of the observer	
Dani Irs Dal M	
ARGET: BP V= AMAR	
ACT RAPIDLY	
TARGET: BP 6 AMA AMA	

Knowledge Check #2	
What single factor is the most impactful on achieving BP control?	
a) Improving patient medication adherence	
b) Shortening the time between office visits	
c) Intensifying treatment by adding a medication class	
TARGET: BP " •= ama*	19

Relative impact on US blood pressure control rate

Assuming BP control rate of 45.6%, independently improving:

- Patient adherence to 100% would increase BP control rates to 57.0%
- Return visit interval to 1 week would increase BP control rates to 67.6%
- Treatment intensification rate to ≥62% would achieve BP control rates of ≥80%

illows BK, Ruiz-Negrón N, Bibbins-Domingo 3.1161/CIRCOUTCOMES.118.003624

TARGET:BP | 6= AMA

Key Drivers of BP Control

Gaps between Science & Practice

- Major opportunities exist for improving BP control and reducing disparities
- Treatment intensification with a new class of BP medication occurred in **only 12% of visits for patients with uncontrolled BP**
- Fixed dose combination medications prescribed to only 25% of patients





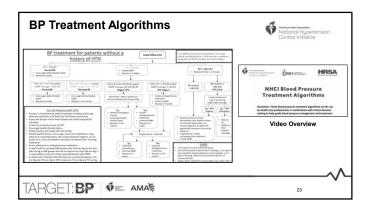
Tracking Blood Pressure Control Performance and Process Metrics in 25 US Health Systems

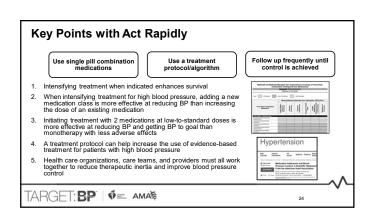
TARGET:BP | 6= AMA

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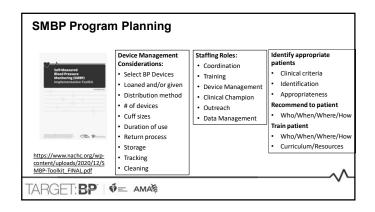
Blood pressure categories • 2017 ACC/AHA Guideline for the Prevention, Detection, Evaluation, and Management of High Blood NORMAL LESS THAN 120 and LESS THAN 80 Pressure in Adults ELEVATED 120-129 and LESS THAN 80 • Consider the difference: - Diagnosis Threshold a <120 / <80 mmHg 140 OR HIGHER - TREATMENT targets a <130 / 80 mmHg - PERFORMANCE measures and/ or □ <140 / 90 mmHg

TARGET:BP | 6= AMA

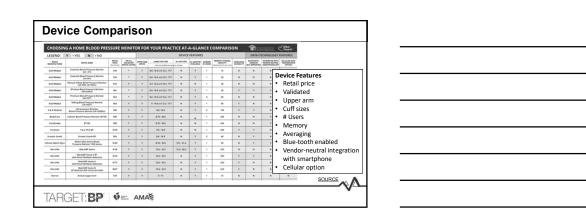


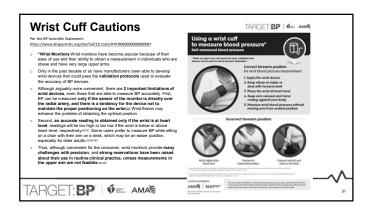


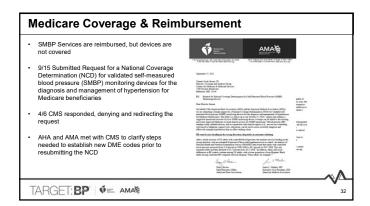
Partnering with Patients & Their Communities	_
TARGET: BP 6 miles AMAR	
Control of the Contro	
ॐ Indications for & Benefits of SMBP	
Improve the accuracy of diagnosing hypertension	
Out-of-file BP measurements are recommended to confirm the diagnosis of hypertension. Rule-out Masked Hypertension or White-Coat Hypertension	-
Better manage patient blood pressure Security Secu	
conjunction with telehealth counseling or clinical networking. Used before subsequent office visits to determine if their aload pressure is controlled.	-
Help patients adhere to treatment – non-pharmacological and pharmacological	
Patients who engage in SMBP may be more likely to take action to improve their health in other ways.	
Duration of Device Use	
Consider the clinical purpose of the device first • During diagnosis, the device might only be needed for 1-2 weeks, or a sufficient time to obtain a	
representative BP reading including:	
(2X in AM before red) The apart) X 3.7 Days Study S	
During treatment intensification, the device will be needed until a patients' response to treatment can be assessed and BP control goal is achieved, which could take weeks to months depending upon prescribing practices, visit frequency, patient adherence, and other variables	
During ongoing management, the device will be needed longer periods while lifestyle changes can be achieved and sustain or to provide continuous monitoring of a chronic condition	
TARGET: BP V= AMAS	

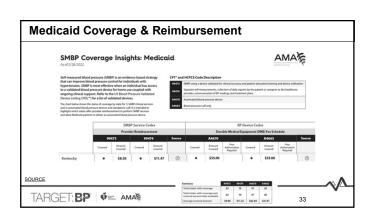


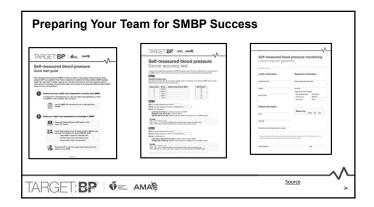
SMBP Program Variation & Impact		
	Common Not Recommended &	Recommended ©
Purpose	Distribute devices	Inform diagnosis and treatment of HBP
HC Champion	Varies	Clinical / QI champion to redesign work/information flow and USE the data to inform diagnosis and treatment decisions
Audience	Anyone who will accept a device	Patients with elevated BP, to confirm a diagnosis Patients with hypertension not yet at goal of <130 / <80 Patients focused on med adherence and/or lifestyle change
Frequency of measurement	Whenever they are willing to use it	2x in am + 2x in pm x 3-7 days prior to visit
Duration of use	As long as they will use it	Until diagnosis confirmed Until treatment goal reached Prior to visits, with medication changes Ongoing to support adherence or lifestyle change for some
Frequency of data relay/review	Inconsistent, unspecified	At visits every 2-4 weeks until diagnosis or BP goal reached At routine visits every 6-12 mo when stable (or monthly if RPM)
Merits	Meet them where they are	Consistent with scientific evidence and AHA guidelines
Impact	? Unlikely	Most likely to support BP control

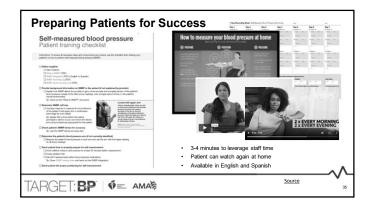


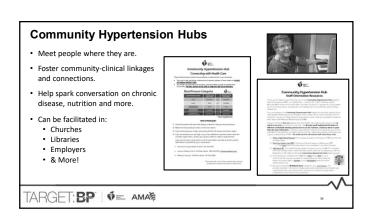












Next Steps	
Join the Missouri organizations we celebrated for Target: BP, Target: Type 2 Diabetes, and/or Check. Change. Control. Cholesterol at heart-org/RegisterMyOutpatientOrg	
Look for opportunities for process improvement. At the system/location level:	
- Join the Missouri organizations we celebrated for Target: BP, Target: Type 2 Diabetes, and/or Check. Change. Control. Cholesterol at heart.org/RegisterMyOutpatientOrg - Look for opportunities for process improvement. - At the system/location level: - Are you conducting annual staff training around BP measurement technique? - Do you have validated, calibrated blood pressure monitors? - Partnering with patients through a Self- Measured Blood Pressure Program or facilitating the launch of a Community Hypertension Hub. - At the individual clinician level:	
Reviewing your own technique for accurate BP measurement.	
Considering greater use of single-pill combination medications Supporting patients who may want to engage in SMBP w/ their own device.	
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Questions or Assistance	
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