



Hypertension Clinical Pathway: The Importance of Hypertension Control in Primary Care

November 16, 2022



Health Quality Innovation Network















This HQIN **HEARTS** in **America** series is delivered by **HEARTS** subject matter experts. They are introducing the pillars of the <u>HEARTS Technical Package</u> while beginning the conversation about HEARTS in America.

If you would like to speak to a HEARTS Advisor, learn more about the initiative, and discuss possibilities for your organization, please connect with your HQIN Quality Improvement Advisor to begin the next steps.



Logistics – Zoom Meeting



To ask a question during the presentation, please use **Chat**.

Raise your hand if you want to verbally ask a question.

Links from today's session will be posted in **Chat**.

You may adjust your audio by clicking Audio Settings.

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All non-physicians will receive a certificate of participation.





Disclosures

Disclosure Information

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Invited Faculty:

Andres Rosende, MD, MSc No Financial Relationships Were Declared

Purpose & Learning Objectives

- Review a comprehensive and straightforward hypertensive clinical pathway in the primary care settings.
- 2. Identify the appropriate methodology to taking an accurate blood pressure measurement.
- 3. Understand the role of cardiovascular risk passement in the hypertension clinical pathway.
- 4. Review preferred pharmacologic treatment protocols and blood pressure treatment thresholds and targets.

Andres Rosende, MD



Andres Rosende is a physician specializing in cardiology. He obtained a Master's degree in clinical research and epidemiology from the University of Buenos Aires, Argentina. In 2018, and after several years of clinical practice, Andres began to work in the Ministry of Health of Argentina as the Coordinator of the National Program for Cardiovascular Disease Prevention, leading the implementation of the HEARTS initiative in the country.

Since 2021, he's been working as International PAHO Consultant for HEARTS in the Americas Initiative, specifically, overseeing the Medication and Standardized Treatment Protocols Pillar.



Hypertension Clinical Pathway

Importance of Hypertension Control in the Primary Care Setting





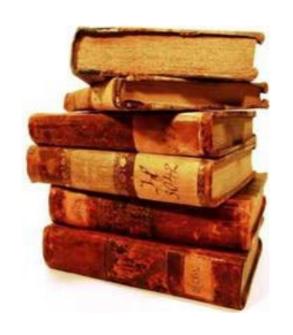




Andres Rosende, MD, MSc

PAHO Consultant for HEARTS in the Americas

Scientific Knowledge Evolution







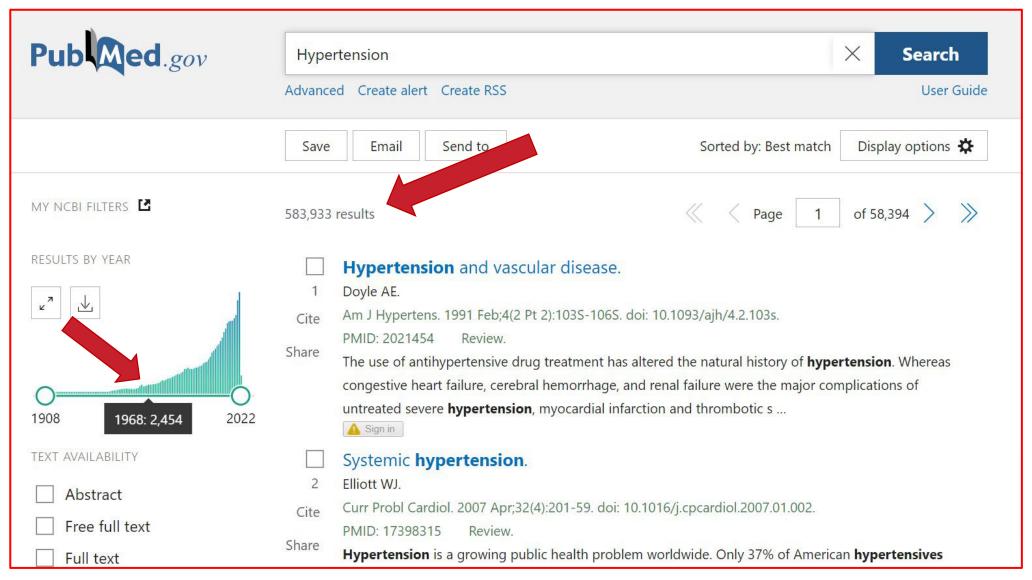
Knowledge based on pathophysiological reasoning

Knowledge based on clincial evidence





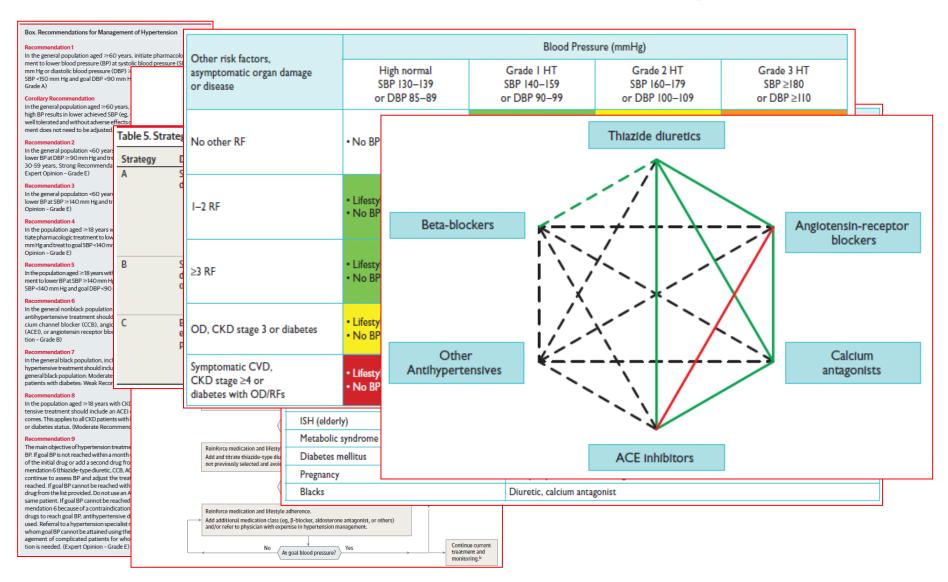
The evidence is good but....







The Clinical Guidelines are good but....







The 2021 WHO Hypertension Guideline is focused on implementation

Guideline for the pharmacological treatment of hypertension in adults



- Threshold for the initiation of pharmacological treatment
- Cardiovascular disease risk assessment
- Specific medication classes and use of FDC
- Target blood pressure
- Frequency of assessment
- Treatment by nonphysician professionals







HEARTS in the Americas Innovation Group

Drivers and scorecards to improve hypertension control in primary care practice: Recommendations from the HEARTS in the Americas Innovation Group

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Summary

Background Cardiovascular disease (CVD) is the leading cause of morbidity and mortality in the Americas, and hypertension is the most significant modifiable risk factor. However, hypertension control rates remain low, and CVD mortality is stagnant or rising after decades of continuing reduction. In 2016, the World Health Organization (WHO) launched the HEARTS technical package to improve hypertension control. The Pan American Health Organization (PAHO) designed the HEARTS in the Americas Initiative to improve CVD risk management, emphasizing hypertension control, to date implemented in 21 countries.

The Lancet Regional Health - Americas 2022;9: 100223 Published online xxx https://doi.org/10.1016/j. lana.2022.100223

Methods To advance implementation, an interdisciplinary group of practitioners was engaged to select the key evidence-based drivers of hypertension control and to design a comprehensive scorecard to monitor their implementation at primary care health facilities (PHC). The group studied high-performing health systems that achieve high hypertension control through quality improvement programs focusing on specific process measures, with regular feedback to providers at health facilities.

Findings The final selected eight drivers were categorized into five main domains: (1) diagnosis (blood pressure measurement accuracy and CVD risk evaluation); (2) treatment (standardized treatment protocol and treatment intensification); (3) continuity of care and follow-up; (4) delivery system (team-based care, medication refill), and (5) system for performance evaluation. The drivers and recommendations were then translated into process measures, resulting in two interconnected scorecards integrated into the HEARTS in the Americas monitoring and evaluation system.



Drivers for Hypertension Control. HEARTS in the Americas

Domain	Drivers	Recomendations		
Diagnosis	BP measurement accuracy	 BP measurement training every six months for all staff involved with BP measurement. BP measurement protocols, and repeated BP measurement if the first BP reading is elevated. Exclusive use of validated automatic BPMD 		
	CVD risk assessment	 Assess the CVD risk in all patients with hypertension to guide BP goal and frequency of follow-up. Use of combination BP medication, statin, aspirin (as needed) in high CVD risk patients, including those with diabetes and CKD. 	≥ 80% ≥ 80%	
Treatment	Standardized Treatment Protocol	 Standardized treatment protocol with specific medications and doses. Established protocol using FDC medication. 		
	Treatment intensification	 Initiate pharmacological treatment immediately after the diagnosis of HTN is confirmed. Medication must be added or intensified as per standard protocol if BP ≥ 140/90 or SBP ≥130 mmHg for high-risk patients. 	≥ 70% ≥ 80%	
Continuity of care and follow-up	Continuity of care and follow up	 Follow-up of elevated BP within 2-4 weeks if not controlled. BP visit within six months for all patients with hypertension stable and well- controlled. BP visit within 3 months for all patients with hypertension and high CVD risk, including diabetes and CKD 		
Delivery System	Team-based care and task-shifting	 BP measurement by NPHW appropriately trained and certified. Follow-up BP visits with NPHW under supervision and guided by protocol. Medication titration by a NPHW under supervision and guided by protocol 		
	Medication refill frequency	3-month refill intervals for all BP medication prescriptions for patients stable and controlled	3-month refill	
System for performance evaluation	System for performance evaluation with feedback	 Monthly performance evaluation for racking, prevent substantial deviations and promote timely program corrections. Bi-monthly evaluation and feedback can be acceptable for small facilities. Three months is the minimum acceptable) 		







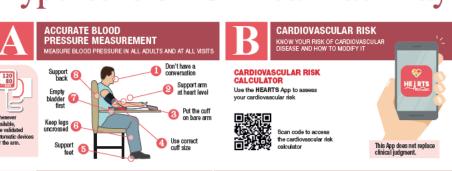
2. CVD risk assessment

3. Standardized **Treatment Protocol**

4. Treatment intensification

Lancet Reg Health Am 2022. May;01:100223. doi.org/10.1016/j.lana.2022.100223.

Hypertension Clinical Pathway





Blood Pressure ≥140/90 mmHg in all HYPERTENSIVES Systolic Blood Pressure ≥130 mmHg in HIGH-RISK HYPERTENSIVES



Patient above target after repeat measurement 1 Tablet of Telmisartan/Amlodipine 80/10 mg

START TREATMENT IMMEDIATELY AFTER

Body mass index

18.5 and 24.9

Avoid foods high

in sodium

+ 1/2 Tablet of Chlorthalidone 25 mg

Patient above target after repeat measurement 1 Tablet of Telmisartan/Amlodipine 80/10mg + 1 Tablet of Chlorthalidone 25 mg

> Patient above target: Refer to the next level of care

1 MONTH 1 MONTH

No smoking

NOT INDICATED

CHILDBEARING

Do 30 minutes of

physical activity

Minimum 6-MONT Minimum 3-MONTH Supply medicines Patients under contro follow-up follow-up Influenza COVID HIGH-RISK Hypertensives HE | RTS This protocol is

5. Continuity of care and follow-up

> 6. Team-based care and task-shifting

7. Medication refill frequency

8. System for performance evaluation with feedback

Lancet Reg Health Am 2022. May;01:100219. doi.org/10.1016/j.lana.2022.100219



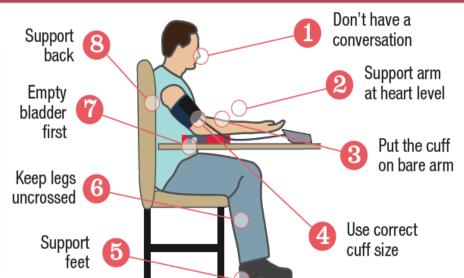
Hypertension Clinical Pathway



ACCURATE BLOOD PRESSURE MEASUREMENT

MEASURE BLOOD PRESSURE IN ALL ADULTS AND AT ALL VISITS







CARDIOVASCULAR RISK

KNOW YOUR RISK OF CARDIOVASCULAR DISEASE AND HOW TO MODIFY IT

CARDIOVASCULAR RISK CALCULATOR

Use the **HEARTS** App to assess your cardiovascular risk



Scan code to access the cardiovascular risk calculator



This App does not replace clinical judgment.



TREATMENT PROTOCOL

START TREATMENT IMMEDIATELY AFTER CONFIRMING HYPERTENSION

Blood Pressure ≥140/90 mmHg in all HYPERTENSIVES.

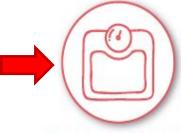
Systolic Blood Pressure ≥130 mmHg in HIGH-RISK HYPERTENSIVES

(Established cardiovascular disease, Diabetes, Chronic Kidney Disease, Risk score ≥ 10%)

Oandianaaanlan niak	All Hypertensives	HIGH-RISK Hypertensives	
Cardiovascular risk		WITH established cardiovascular disease	WITHOUT established cardiovascular disease
Blood Pressure TARGET <140/90 mmHg	/		
Systolic Blood Pressure TARGET <130 mmHg		✓	✓
ASPIRIN 100 mg/daily		✓	
High-dose statins: ATORVASTATIN 40 mg/daily		✓	
Moderate-dose statins: ATORVASTATIN 20 mg/daily			✓



Avoid alcohol consumption



Body mass index between 18.5 and 24.9



Avoid foods high in sodium

1 Tablet of Telmisartan/Amlodipine 40/5 mg

Patient above target after repeat measurement

1 Tablet of Telmisartan/Amlodipine 80/10 mg

Patient above target after repeat measurement
1 Tablet of Telmisartan/Amlodipine 80/10 mg
+ ½ Tablet of Chlorthalidone 25 mg

Patient above target after repeat measurement
1 Tablet of Telmisartan/Amlodipine 80/10mg
+ 1 Tablet of Chlorthalidone 25 mg

Patient above target:
Refer to the next level of care

Do 30 minutes of physical activity

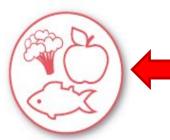
daily

1 MONTH

1 MONTH

1 MONTH

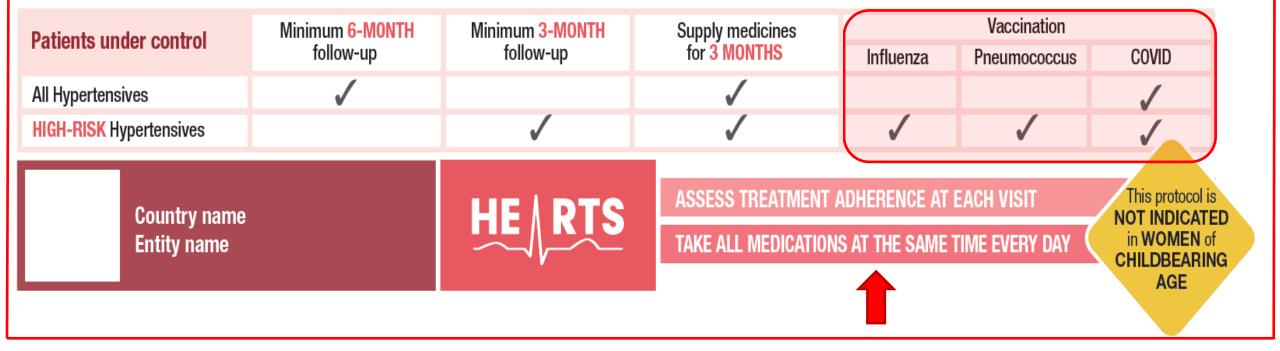
(1 MONTH



Keep a healthy diet



No smoking



The Hypertension Clinical Pathway is the main tool for HEARTS implementation, catalyzing the recommendations from the new WHO guideline and the HEARTS Drivers for Hypertension Control.



There is a real pollution of scientific information on hypertension and this also includes the CPGs.

The traditional model of care, based on CPGs, has failed to achieve high rates of hypertension control. The right answer is the implementation of a simplified and standardized approach such as HEARTS in the Americas.

The HEARTS Clinical Pathway is the core of HEARTS implementation, enabling a more comprehensive approach to CVD risk management in PHC.





The HEARTS Initiative is the 2019 recipient of

Organizational Excellence Award for Hypertension Prevention and Control

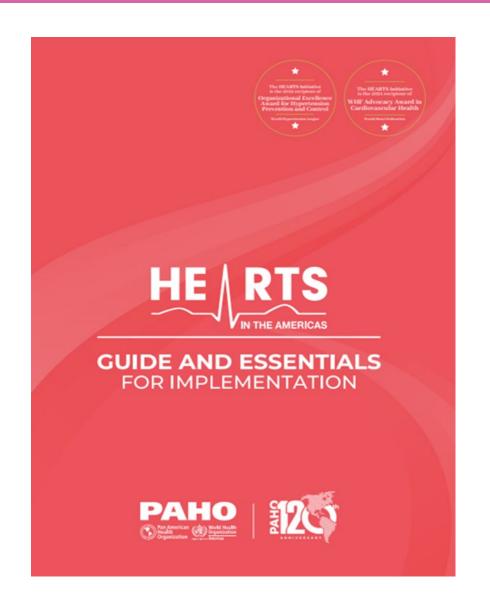
World Hypertension League

The HEARTS Initiative is the 2021 recipient of

WHF Advocacy Award in Cardiovascular Health

World Heart Federation





Questions?

Join us for our next HEARTS in America session: November 30th, 2022

Chronic Kidney Disease: Screening and Early Management

Ben Broome, MD

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- Southern Medical Association (SMA) will create an online account for you including your unique login, using the email address you provided during registration (your username/ID is your email address).
- Upon receipt of your post-meeting email, click the link provided, and please make sure that
 your name and email address appear at the top of the form before completion.
- After you complete and submit your evaluation and attendance documentation, your certificate will be emailed to you as a .pdf attachment from customerservice@sma.org within 24 hours.





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