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REGISTRO SUPERINTENDENCIA FINANCIERA DE COLOMBIA

SESIÓN 7: CONOCE TU ARL - PREVENCIÓN DEL RIESGO CARDIOVASCULAR



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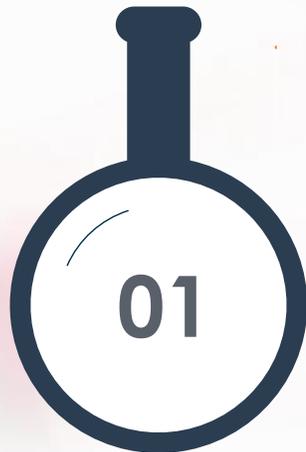
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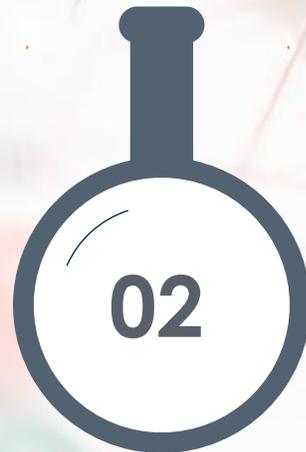
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Ruta de conocimiento



SESIÓN 1:
CONOCE TU ARL - ACCESO
A SERVICIOS Y NOVEDADES



SESIÓN 2:
CONOCE TU ARL - MODELO
DE ATENCIÓN DEL
SINIESTRO - RUTAS
INTEGRALES DEL SERVICIO

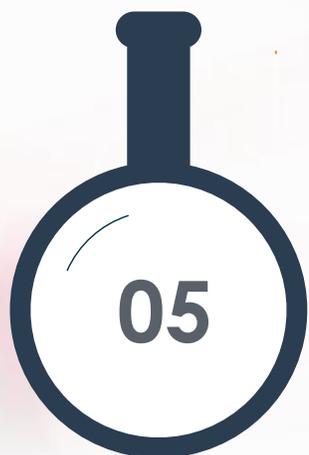


SESIÓN 3:
CONOCE TU ARL - NUEVAS
HERRAMIENTAS DE GESTIÓN



SESIÓN 4:
CONOCE TU ARL -
REINTEGRO LABORAL
EFECTIVO - LABORATORIO
DE BIOMECÁNICA

Ruta de conocimiento



SESIÓN 5:
CONOCE TU ARL - COMO
CULTIVAR EL BIENESTAR
MENTAL PARA EVITAR EL
DETERIORO DE LA SALUD



SESIÓN 6:
CONOCE TU ARL -
REHABILITACIÓN INTEGRAL
Y REINCORPORACIÓN
LABORAL EFECTIVA



SESIÓN 7:
CONOCE TU ARL -
PREVENCIÓN DEL RIESGO
CARDIOVASCULAR



SESIÓN 8:
CONOCE TU ARL - LO QUE
DEBES SABER EN RIESGOS
LABORALES

EVALUÉMONOS



Fórmulas para la vida

Valores + Emociones + Competencias

Respeto + Gratitud + Ética y sostenibilidad

Los mejores médicos del mundo son: el doctor dieta, el doctor reposo y el doctor alegría.

Jonathan Swift

CONTENIDO

- 01 >>> ¿Qué es la enfermedad cardiovascular?
- 02 >>> Ejemplos de enfermedad cardiovascular
- 03 >>> Factores de riesgo para enfermedad cardiovascular.
- 04 >>> Estrategias de prevención ..



OBJETIVOS

01

Conocer qué es la enfermedad cardiovascular..

02

Identificar los factores de riesgo cardiovascular

03

Aplicar estrategias de prevención de riesgo cardiovascular

Organización mundial de salud.

Las enfermedades cardiovasculares son la principal causa de defunción en el mundo. Según las estimaciones, se cobran cada año 17,9 millones de vidas. Estas enfermedades agrupan una serie de trastornos del corazón y los vasos sanguíneos, como la cardiopatía coronaria, los accidentes cerebrovasculares y las cardiopatías reumáticas. Más de cuatro de cada cinco defunciones por enfermedades cardiovasculares se deben a cardiopatías coronarias y accidentes cerebrovasculares, y una tercera parte de ellas son prematuras (es decir, de personas menores de 70 años)



Ejemplos de enfermedad cardiovascular

HIPERTENSIÓN ARTERIAL

La hipertensión es una de las condiciones crónicas más conocidas que incrementan el riesgo de la enfermedad coronaria; por lo tanto, la hipertensión arterial representa una enfermedad per se y a la vez es un factor de riesgo.

OBESIDAD

En las últimas décadas, el índice de masa corporal (IMC), medido como el peso (en kg) dividido por el cuadrado de la estatura (en metros), de niños, adolescentes y adultos ha aumentado sustancialmente en todo el mundo⁴³. Los análisis mendelianos aleatorizados muestran una relación lineal entre el IMC y la mortalidad en no fumadores. La mortalidad por todas las causas es menor con un IMC de 20-25 en personas aparentemente sanas,

DIABETES MELLITUS

La DM1, la DM2 y la prediabetes son factores independientes de riesgo de EA y casi lo duplican, dependiendo de la población y el control terapéutico⁴¹. Parece que las mujeres con DM2 tienen más riesgo de ictus⁴².

Table 1. Hypertensive Emergencies by Organ and Initial Treatment Approach

	Organ				
	Brain	Arteries	Retina	Kidney	Heart
Acute conditions indicating hypertensive emergency	Stroke Hypertensive encephalopathy (PRES) Cerebral hemorrhage	Acute aortic dissection Preeclampsia, HELLP, eclampsia	Grade III–IV Keith-Wagener-Barker hypertensive retinopathy	Acute kidney injury Thrombotic microangiopathy	Acute heart failure Pulmonary edema Acute coronary syndrome
Initial BP target	130<SBP<180 mm Hg, MAP decline 15% in 1 h Immediate MAP decline 20%–25% Immediate MAP decline 15%	SBP <120 mm Hg immediate Immediate SBP <160 mm Hg and DBP <105 mm Hg if severe	SBP <180 mm Hg MAP decline of 15%	MAP decline 20%–25% over several hours	SBP <180 mm Hg or MAP decline 25% Immediate SBP <140 mm Hg Immediate SBP <140 mm Hg
Treatment agents	Labetalol Nicardipine	Esmolol and nitroprusside, nitroglycerin, or nicardipine Labetalol, nicardipine, magnesium sulfate, or hydralazine		Labetalol Nicardipine Clevidipine Fenoldopam	Nitroglycerin Nitroprusside Labetalol Clevidipine Esmolol

BP indicates blood pressure; DBP, diastolic blood pressure; HELLP, hemolysis, elevated liver enzymes, low platelets; MAP, mean arterial pressure; PRES, posterior reversible encephalopathy syndrome; and SBP, systolic blood pressure.

Data derived from Rossi et al²¹ as part of the BARKH (brain, arteries, retina, kidney, heart) acronym designed for rapid identification of hypertensive emergencies requiring rapid parenteral treatment.

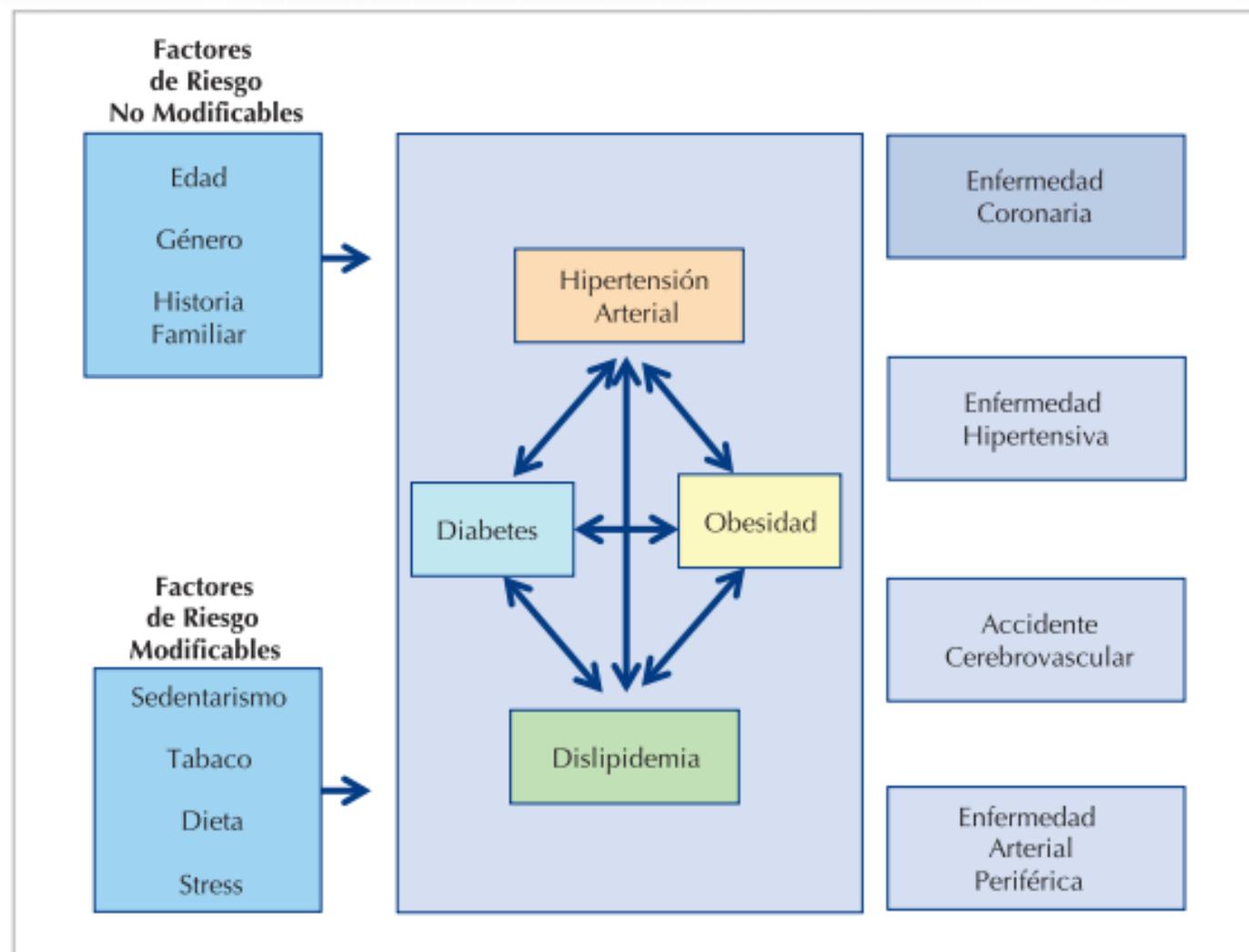


Figura 2. Factores de Riesgo y su relación con las enfermedades cardiovasculares.

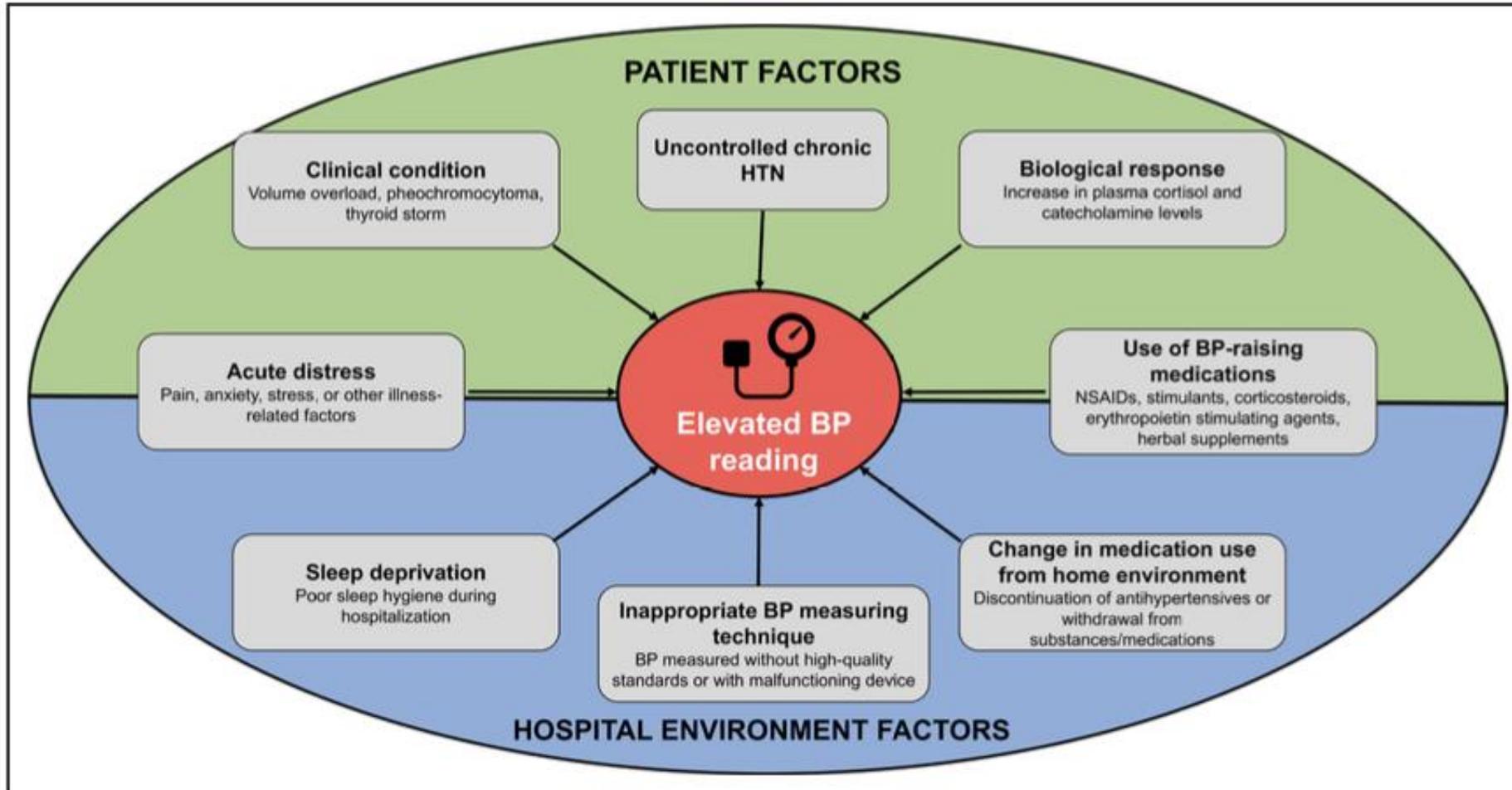


Figure 2. Mechanisms for elevated BP in the acute care setting.

BP indicates blood pressure; HTN, hypertension; and NSAID, nonsteroidal anti-inflammatory drug.

Select Therapy: Lifestyle Interventions

Relevance

- Prevent or delay onset of hypertension
- Improve overall/CV health and well-being
- Reduce BP
- Booster BP lowering effects of medications
- Reduce the number/dose of drugs needed for BP control

Prescribing

- To all patients with diagnosed hypertension
- To patients with white-coat or masked hypertension
- To patients with high-normal BP
- Individual patient counseling and support
- Prescribe with specific instructions, e.g. intensity and type of exercise
- Assess, adapt, and reinforce during follow-up

Supportive additional interventions

Smoking cessation

- Smoking cessation, supportive care and referral to smoking cessation programs are recommended for all smokers



Key interventions to reduce BP

Healthy diet

Prefer:

- DASH or Mediterranean type diets
- A healthy dietary pattern including more plant-based and less animal-based food
- Vegetables, fruits, beans, nuts, seeds, and vegetable oils
- Lean protein (e.g. fish, poultry)



Limit:

- Fatty meats, full-fat dairy
- Sugar, sweets and sweetened beverages

Daily physical activity and regular exercise

- Incorporate physical activity (e.g. walking, cycling) into everyday life and reduce sedentary behavior (e.g. sit less)
- Aim for:
 - 150-300 min of aerobic exercise per week performed at a moderate intensity or
 - 75-150 min of aerobic exercise per week performed at a vigorous intensity or
 - an equivalent combination of moderate and vigorous physical activities
- Add dynamic resistance (muscle strengthening) exercise 2-3 times per week
- Start slow and gradually to build up the amount/intensity of activity



Weight reduction

- Combine a low-caloric diet with daily physical activity in patients with overweight or obesity
- Monitor waist circumference and weight



Restriction of sodium intake

- Sodium is mainly consumed as salt, which comes from processed foods or is added to the food during cooking or at the table
- Salt (NaCl) restriction to < 5 g (~2g sodium) or 1 teaspoon per day is recommended



Augmentation of potassium intake

- Increase potassium consumption, preferably via dietary modification, except for hypertensive patients with advanced CKD
- Foods high in potassium are for example white cannellini beans (1200 mg/cup), unsalted boiled spinach (840 mg/cup), avocado (708 mg/cup) and bananas (450 mg per medium fruit)
- Use salt substitutes replacing NaCl with KCl in patients consuming a high sodium diet

Limit alcohol intake

- Limit alcohol intake close to abstinence, particularly if intake is ≥ 3 drinks/day^a
- Avoid excessive (binge) drinking



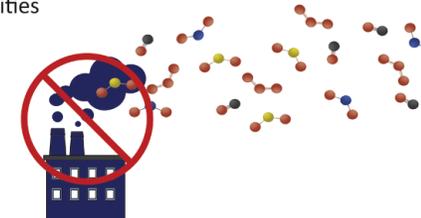
Improve stress management

- Reduce stress by use of
 - Regular physical activity
 - Mindfulness-based exercise
 - Relaxation techniques, e.g. deep breathing, meditation, yoga or Tai Chi
- Get enough sleep (7-9 hours)
- Find individual ways to cope with stress, e.g. practicing mindfulness, engaging in hobbies or talking to a therapist
- Moderate alcohol and caffeine intake, avoid drugs



Minimize exposure to noise and air pollution

- Reduce indoor exposure to noise and air pollution.
- Consider to reduce exposure to air pollution by modifying the location, timing and type of outdoor activities



^aAbout 350 ml of regular beer containing 5% alcohol by volume or 150 ml of wine containing 12% alcohol by volume per drink.

ESH MASTERplan for Hypertension Management

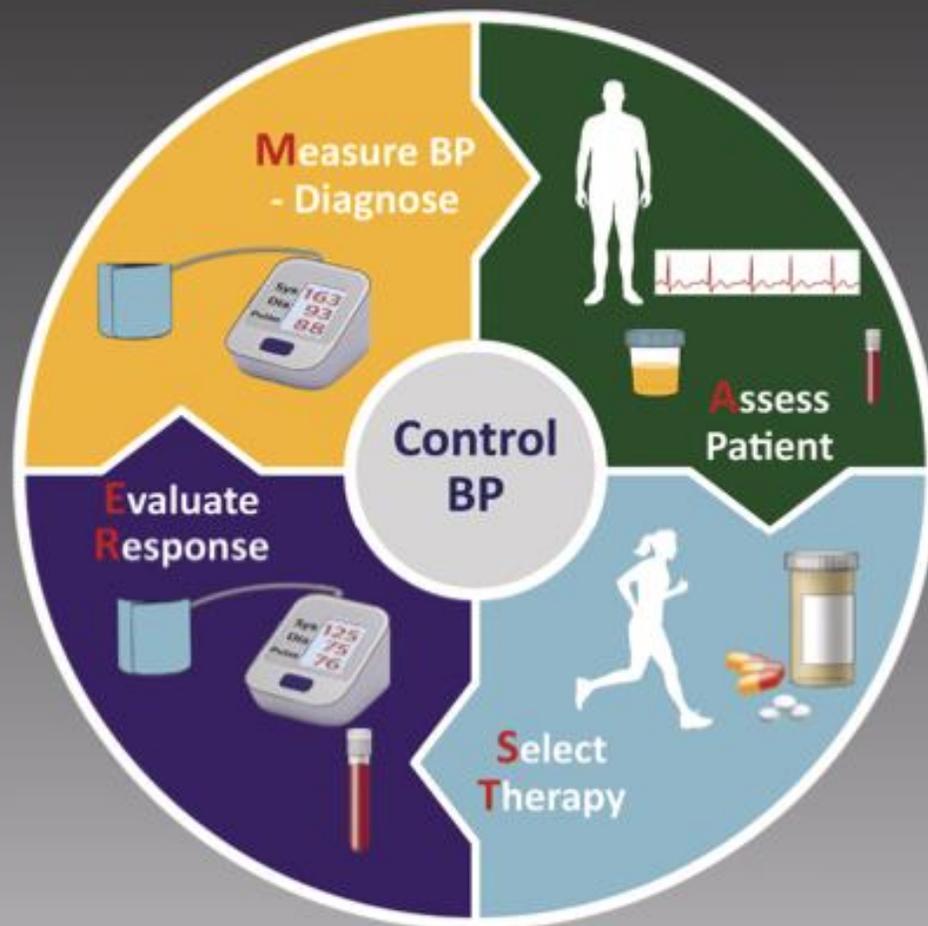


Fig. 1. The ESH MASTERplan for the management of hypertension.

Measure Blood Pressure - Diagnose

In Office

Office BP measurement (OBPM)



*SBP \geq 140
and/or
DBP \geq 90

Conditions

1. Use validated automated electronic upper-arm cuff device^a (www.stridebp.org).
2. Select appropriate cuff to fit arm size according to instructions by device manufacturer^b.
3. Quiet room with comfortable temperature.
4. No smoking, caffeine, food, or exercise 30 min before measurement.
5. Start measurement after patient remained seated and relaxed for 3-5 min^c.
6. No talking during and between measurements.

Posture

7. Sitting with back supported on chair.
8. Legs uncrossed, feet flat on floor.
9. Bare arm resting on table with mid-arm at heart level.

Measurement

10. Take 3 readings with 1 min intervals between them. Use the average of the last 2 readings for BP and also for pulse rate^d.

Relevance

- Was used in outcome trials and provides the basis for diagnosis and BP targets.

Out-of-office

Home BP monitoring (HBPM)



*SBP \geq 135
and/or
DBP \geq 85

Conditions and Posture

- 1.-9. From OBPM apply also to HBPM.

Measurement

10. Propose a standardized protocol to the patient:
 - Educate the patient on how to use a validated device and report the data.
 - Take 2 readings with 1 min intervals between them.
 - Measure in the morning and the evening (before drug intake if treated).
 - Measure for 3-7 days before office visits.
 - Use the average of all readings excluding the first day for both BP and pulse rate.
11. For long-term follow-up of treated hypertension, make duplicate measurements once or twice per week or month.

Relevance

- Recommended for long-term follow-up of treated hypertension, because it improves BP control, especially when combined with education and counseling.
- Confirmation of hypertension diagnosis and of true resistant hypertension, particularly if ABPM is not available.

Ambulatory BP monitoring (ABPM)



*24-h mean BP:
SBP \geq 130
and/or
DBP \geq 80

*Daytime (awake):
SBP \geq 135 mmHg
and/or
DBP \geq 85

*Nighttime (asleep):
SBP \geq 120 mmHg
and/or
DBP \geq 70

Conditions

- 1.-2. From OBPM applies also to ABPM.
3. Use fully automated devices programmed to record BP automatically at preselected intervals for 24 h.

Measurement

4. The recommended optimal time interval between measurements should be 20 minutes during day (awake) and night (sleep).
5. Measure during a routine workday for 24 h.
6. Instruct patients to keep a diary of their activities, symptoms, meals, drug intake times, sleep times or any unusual problems.

Relevance

- Obtaining 24-h BP profile and especially BP during night (sleep) not captured by OBPM or HBPM
- Confirmation of hypertension diagnosis and of true resistant hypertension.

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*Definition of hypertension ^aA device that takes triplicate readings automatically is preferred. ^bThe selection of an appropriate cuff size is crucial. A smaller than required cuff overestimates BP and a larger underestimates BP. ^cUse of electronic devices allowing automated storage and data transfer is encouraged. ^dAt initial visit measure on both arms. An interarm SBP difference $>$ 10 mmHg must be confirmed with repeated measurements. If confirmed, the arm with the higher BP should be used for all subsequent measurements. If any two sequential BP readings in one arm differ by $>$ 10 mmHg, additional measurements are recommended. See also Table 1.

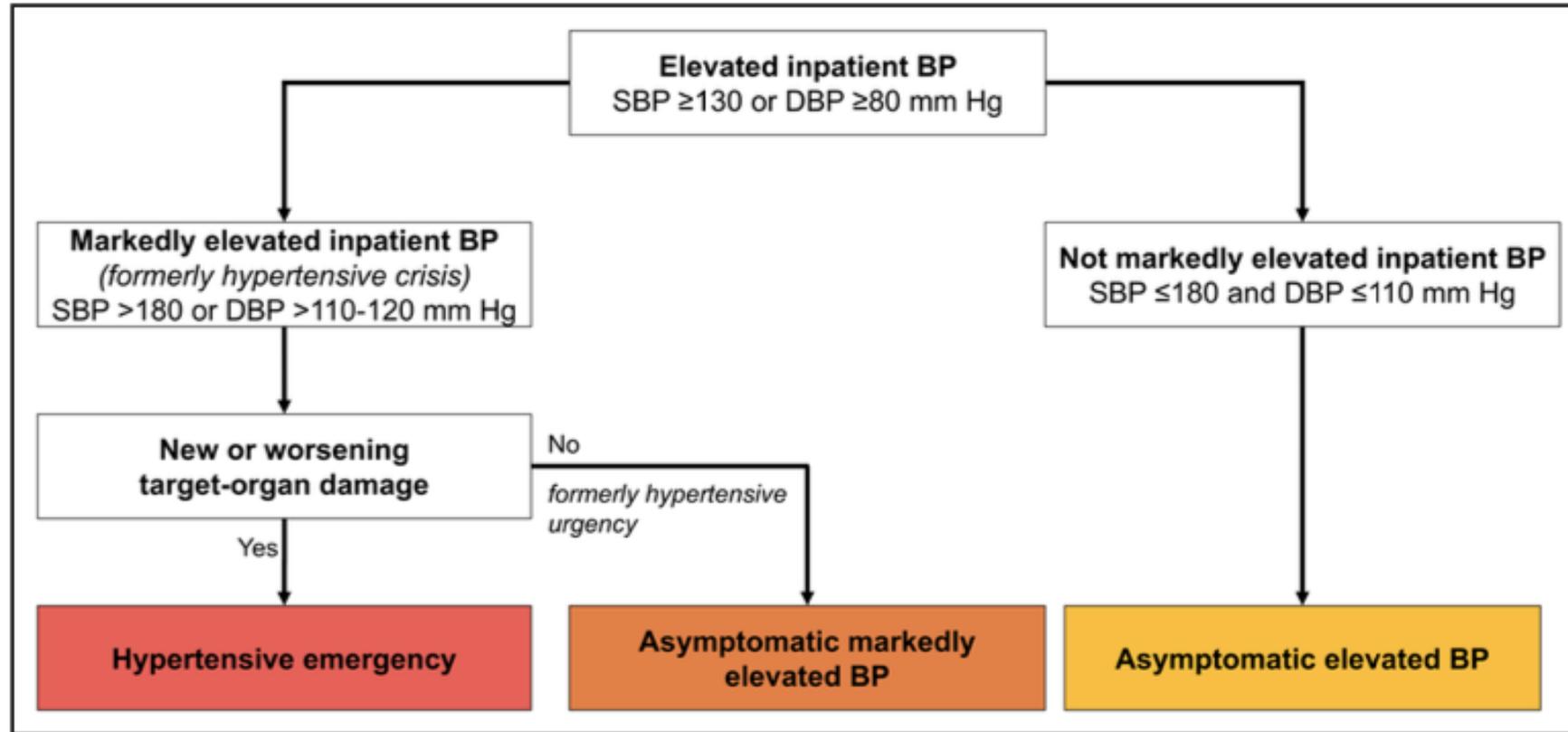


Figure 1. Terminology of elevated inpatient BP in the acute care setting.

The blood pressure (BP) classifications depicted in this figure are based on established thresholds from recent hypertension guidelines, including the 2017 Hypertension Clinical Practice Guidelines, the 2018 European Society of Cardiology/European Society of Hypertension (ESH) clinical practice guidelines for the management of arterial hypertension, and the 2023 ESH guidelines on arterial hypertension management. Markedly elevated BP is defined by the 2017 Hypertension Clinical Practice Guidelines as systolic BP (SBP) >180 mm Hg or diastolic BP (DBP) >120 mm Hg in scenarios without new or worsening target-organ damage. The 2023 ESH guidelines categorize hypertensive emergency or urgency as grade 3 hypertension (SBP ≥180 mm Hg or DBP ≥110 mm Hg) without differentiating severity based solely on BP values among those showing no signs of target-organ damage progression. The depicted ranges for inpatient elevated BP align with recommendations for outpatient high BP management as the definition of stage I hypertension. Readers are encouraged to consult individual guidelines for detailed definitions and clinical context.

Signos de alarma

Dolor de pecho

Dificultad respiratoria

Alteración neurológica

Pérdida de la visión

BIBLIOGRAFÍA

Cestário et al. *Trials* (2018) 19:101
DOI 10.1186/s13063-017-2343-3

Trials

STUDY PROTOCOL

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Resistant Hypertension On Treatment (ResHypOT): sequential nephron blockade compared to dual blockade of the renin-angiotensin-aldosterone system plus bisoprolol in the treatment of resistant arterial hypertension – study protocol for a randomized controlled trial

Elizabeth do Espírito Santo Cestário¹, Leticia Aparecida Barufi Fernandes¹, Luiz Tadeu Giollo-Júnior¹, Jéssica Rodrigues Roma Uyemura¹, Camila Suemi Sato Matarucco¹, Manoel Idelfonso Paz Landim¹, Luciana Neves Cosenso-Martin¹, Lúcia Helena Bonalume Tácio², Heitor Moreno Jr.³, José Fernando Vilela-Martin¹ and Juan Carlos Yugar-Toledo¹

PeerJ

Hypertension in frail older adults: current perspectives

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ABSTRACT

Hypertension is one of the most common chronic diseases in older people, and the prevalence is on the rise as the global population ages. Hypertension is closely associated with many adverse health outcomes, including cardiovascular disease, chronic kidney disease and mortality, which poses a substantial threat to global public health. Reasonable blood pressure (BP) management is very important for reducing the occurrence of adverse events. Frailty is an age-related geriatric syndrome, characterized by decreased physiological reserves of multiple organs and systems and increased sensitivity to stressors, which increases the risk of falls, hospitalization, fractures, and mortality in older people. With the aging of the global population and the important impact of frailty on clinical practice, frailty has attracted increasing attention in recent years. In older people, frailty and hypertension often coexist. Frailty has a negative impact on BP management and the prognosis of older hypertensive patients, while hypertension may increase the risk of frailty in older people. However, the causal relationship between frailty and hypertension remains unclear, and there is a paucity of research regarding the efficacious management of hypertension in frail elderly patients. The management of hypertension in frail elderly patients still faces significant challenges. The benefits of treatment, the optimal BP target, and the choice of antihypertensive drugs for older hypertensive patients with frailty remain subjects of ongoing debate. This review provides a brief overview of hypertension in frail older adults, especially for the

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Practice Guidelines

2024 European Society of Hypertension clinical practice guidelines for the management of arterial hypertension

Endorsed by the European Federation of Internal Medicine (EFIM), European Renal Association (ERA), and International Society of Hypertension (ISH)

Riesgo y Prevención Cardiovascular

DR. ENRIQUE RUIZ MORI

Autor y Editor



Organización Mundial de la Salud

CLINICAL PRACTICE GUIDELINES

2025 AHA/ACC/AANP/AAPA/ABC/ACCP/ACPM/AGS/AMA/ASPC/NMA/PCNA/SGIM Guideline for the Prevention, Detection, Evaluation and Management of High Blood Pressure in Adults: A Report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines

Developed in Collaboration With and Endorsed by American Academy of Physician Associates; American Association of Nurse Practitioners; American College of Clinical Pharmacy; American College of Preventive Medicine; American Geriatrics Society; American Medical Association; American Society of Preventive Cardiology; Association of Black Cardiologists; National Medical Association; Preventive Cardiovascular Nurses Association; and the Society of General Internal Medicine.

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03

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