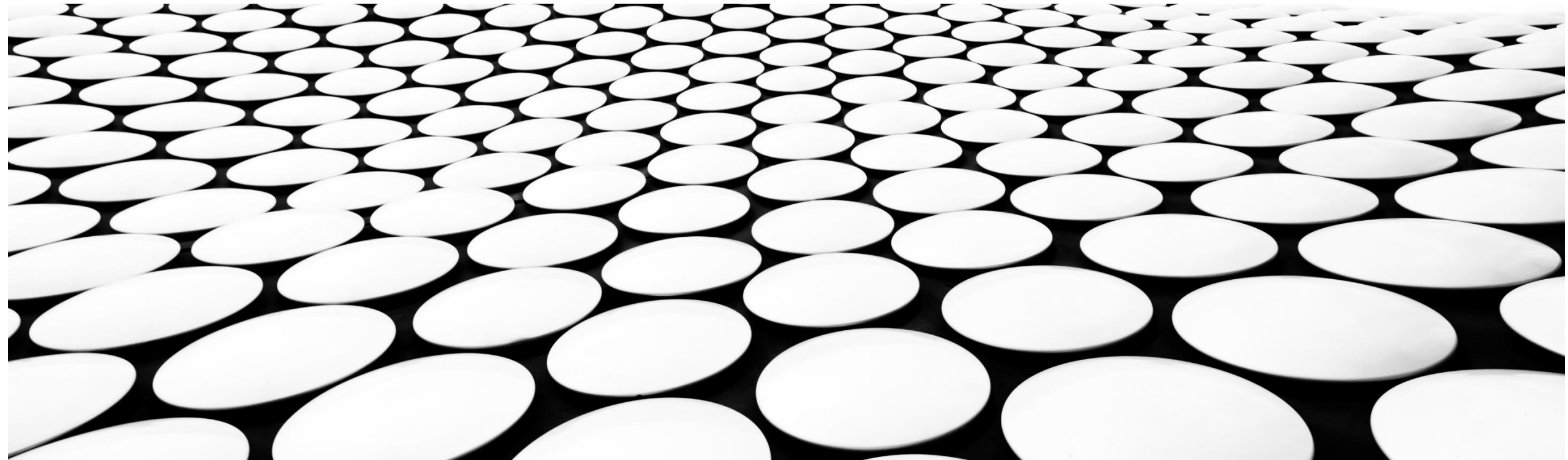


MESURE DE LA PRESSION ARTERIELLE: OÙ EN SOMMES NOUS?

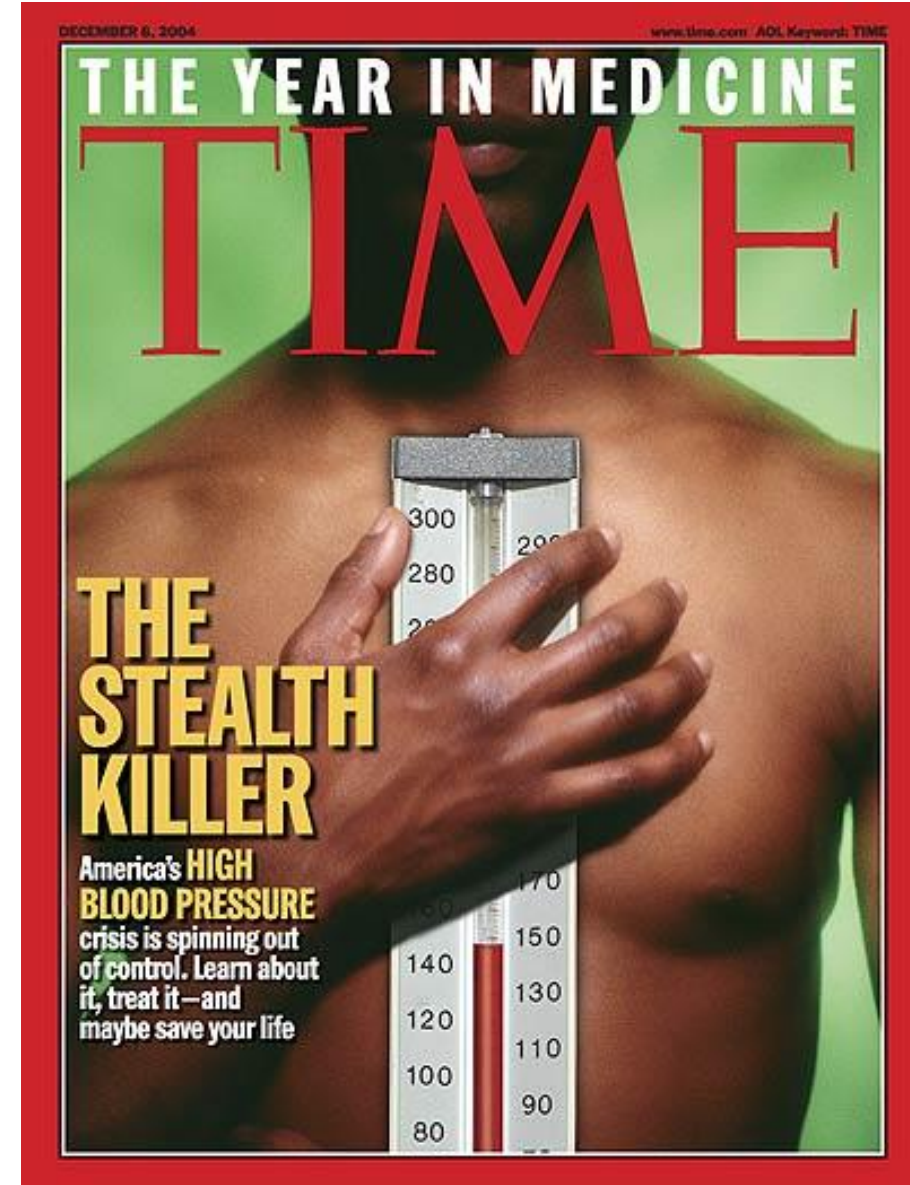
PROF BELEN PONTE - RESPONSABLE DE L'UNITÉ D'HYPERTENSION

SERVICE DE NEPHROLOGIE ET HYPERTENSION

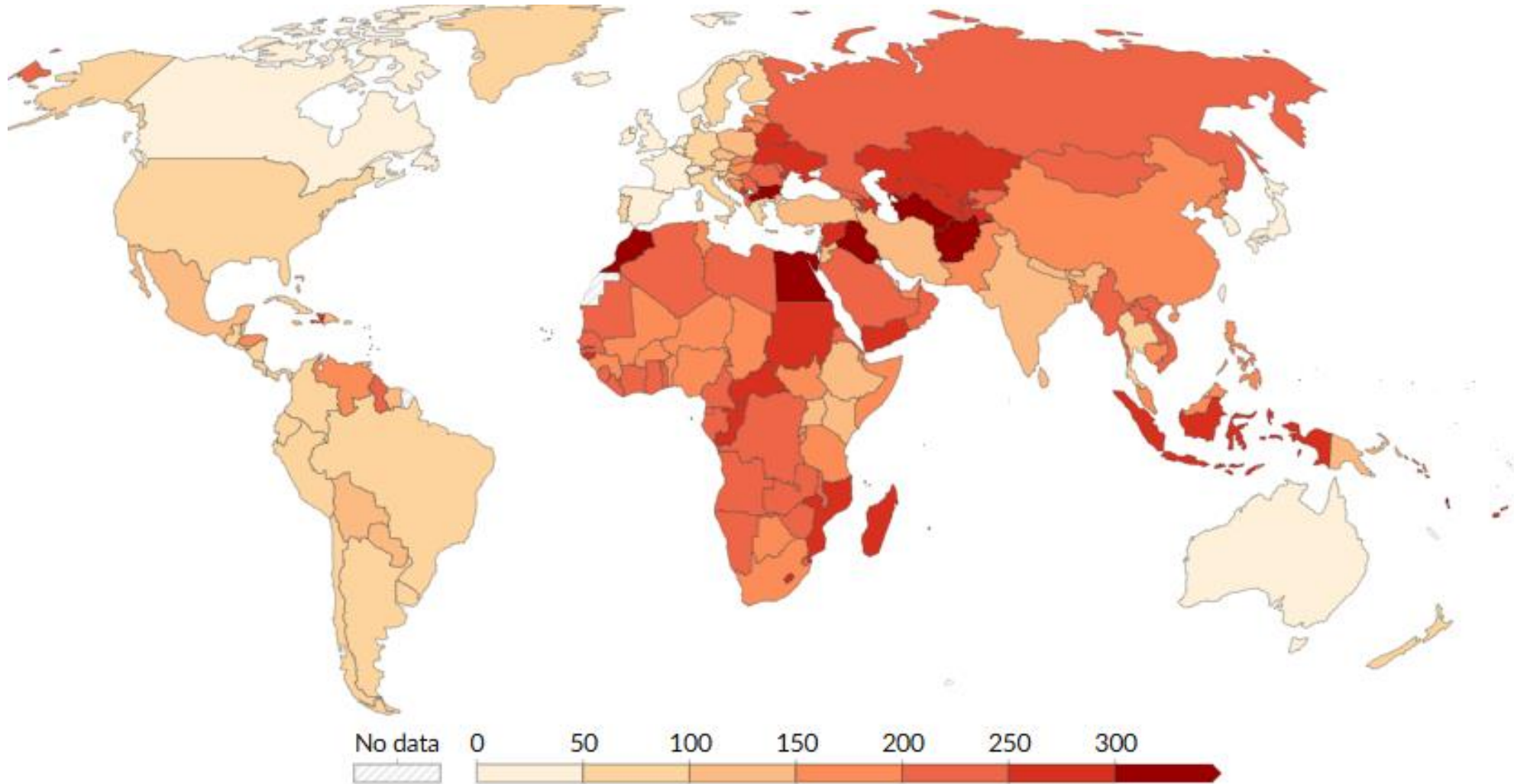


PLAN

- Epidémiologie Hypertension
- Comment mesurer la pression artérielle?
- Mesures «standards»
- Le future de la mesure de PA
- Challenges, conclusions



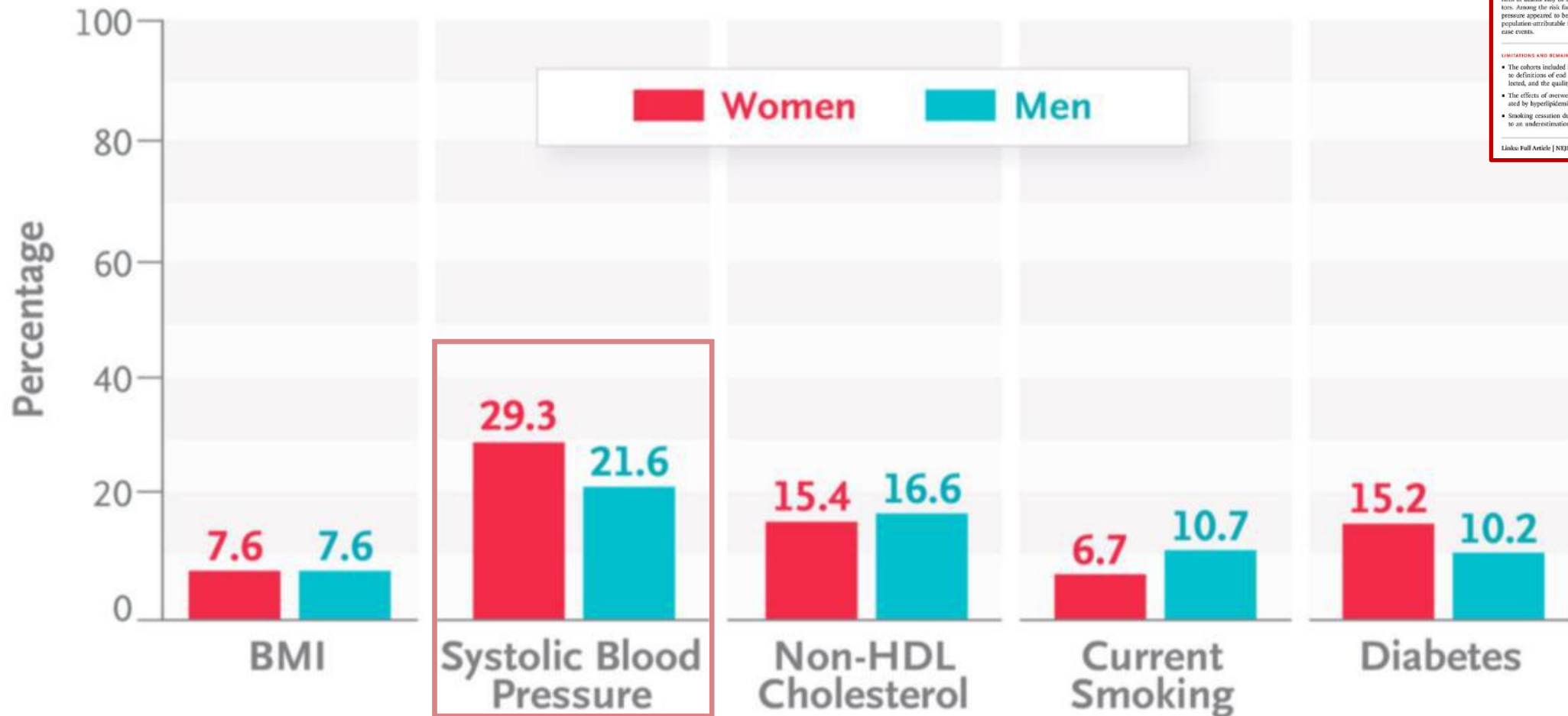
HTA= 1^{ER} FACTEUR DE RISQUE DE MORTALITÉ ENVIRON 9.4 MILLIONS MORTS/ AN (OMS).



Data source: IHME, Global Burden of Disease (2024). Annual death rate due to hypertension per 100'000p

Effet majeur par rapport aux autres FRCV sur la maladie et mortalité CV

Population-Attributable Fractions for the Individual Risk Factors for Cardiovascular Disease



IN THE NEW ENGLAND JOURNAL OF MEDICINE

RESEARCH SUMMARY

Global Effect of Modifiable Risk Factors on Cardiovascular Disease and Mortality

Global Cardiovascular Risk Consortium DOI: 10.1056/NEJMoa2206916

Modifiable Risk Factors

BMI, Systolic Blood Pressure, Non-HDL Cholesterol, Current Smoking, Diabetes

Population-Attributable Fractions for the Risk Factors Combined

Cardiovascular Disease: Women 57.3, Men 47.8
 Death from Any Cause: Women 22.0, Men 19.3

Population-Attributable Fractions for the Individual Risk Factors for Cardiovascular Disease

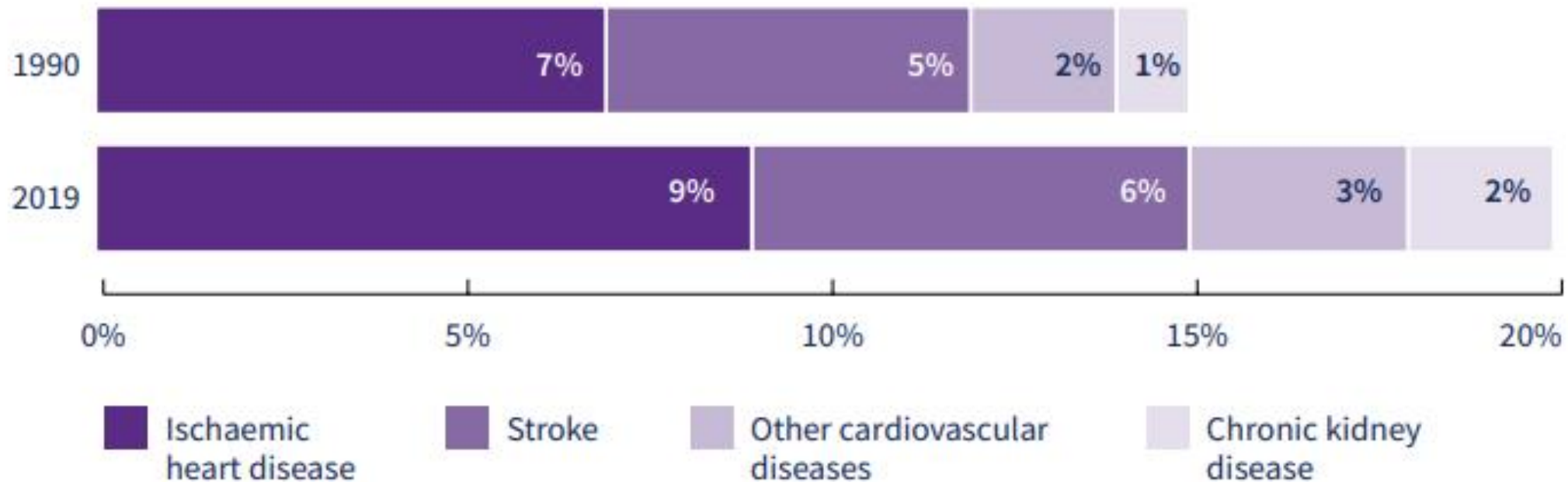
BMI: Women 7.6, Men 7.6
 Systolic Blood Pressure: Women 29.3, Men 21.6
 Non-HDL Cholesterol: Women 15.4, Men 16.6
 Current Smoking: Women 6.7, Men 10.7
 Diabetes: Women 15.2, Men 10.2

CONCLUSIONS
 Harmonized individual-level data from a global cohort showed that over 10 years, more than half the cases of incident cardiovascular disease and one fifth of deaths in adults may be attributable to five modifiable risk factors.

LINKS
[Full Article](#) | [NEJM Quick Take](#) | [Editorial](#)

GLOBAL BURDEN OF CV DISEASE

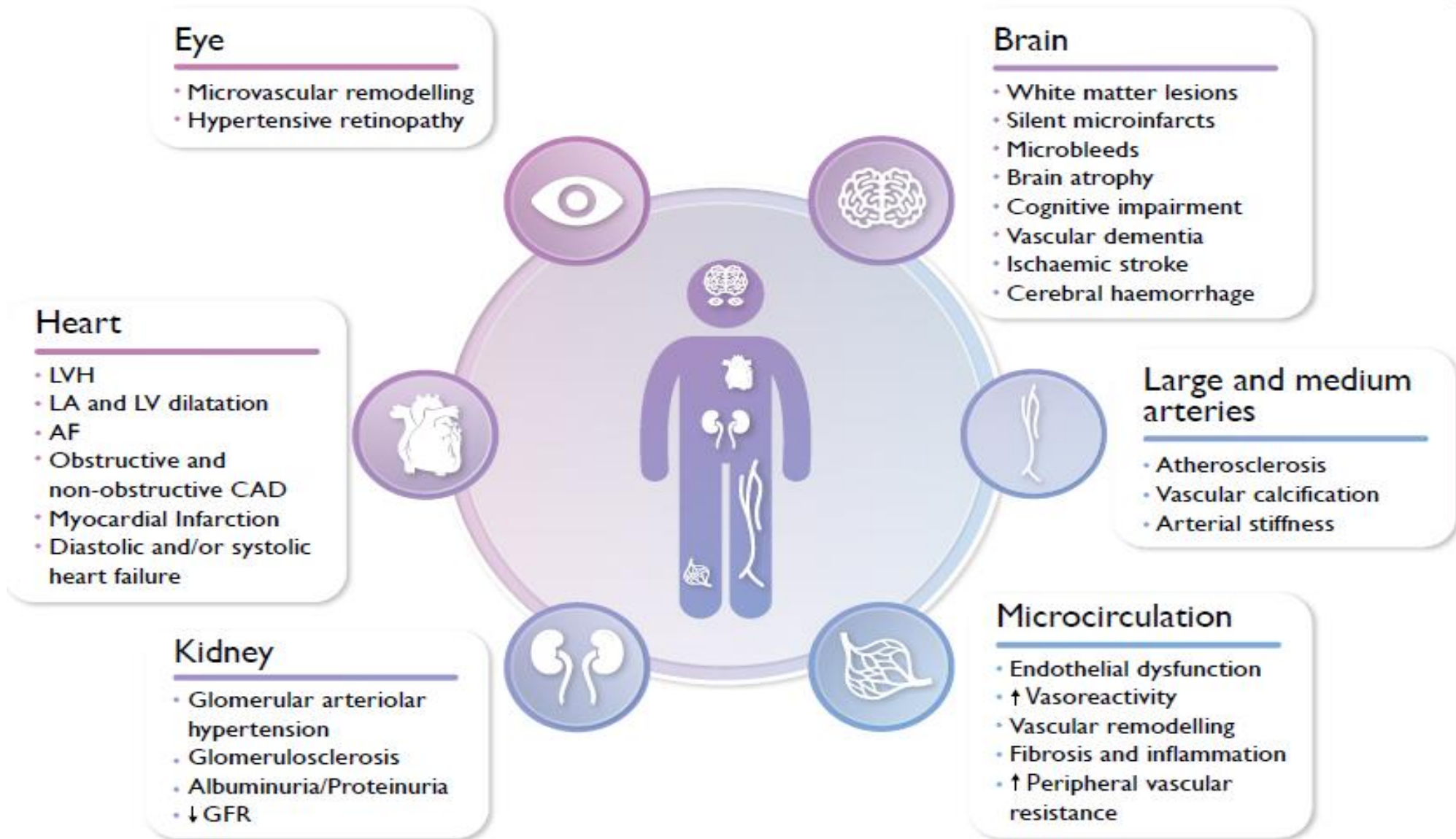
Fig. 8. Percentage of global deaths attributable to high systolic blood pressure (1990 and 2019), by cause of death



Source: Global Burden of Disease Collaborative Network (25) and additional calculations.

Global Burden of Disease Collaborative Network. 2019 Global Burden of Disease study results. Seattle: Institute for Health Metrics and Evaluation; 2020 ([http:// ghdx.healthdata.org/gbd-results-tool](http://ghdx.healthdata.org/gbd-results-tool), accessed 2 August 2023) and additional calculations.

CONSÉQUENCES HTA NON TRAITÉE



PREVALENCE HTA 30-79 ANS - 2024

Définition HTA $\geq 140/90$ mmhg

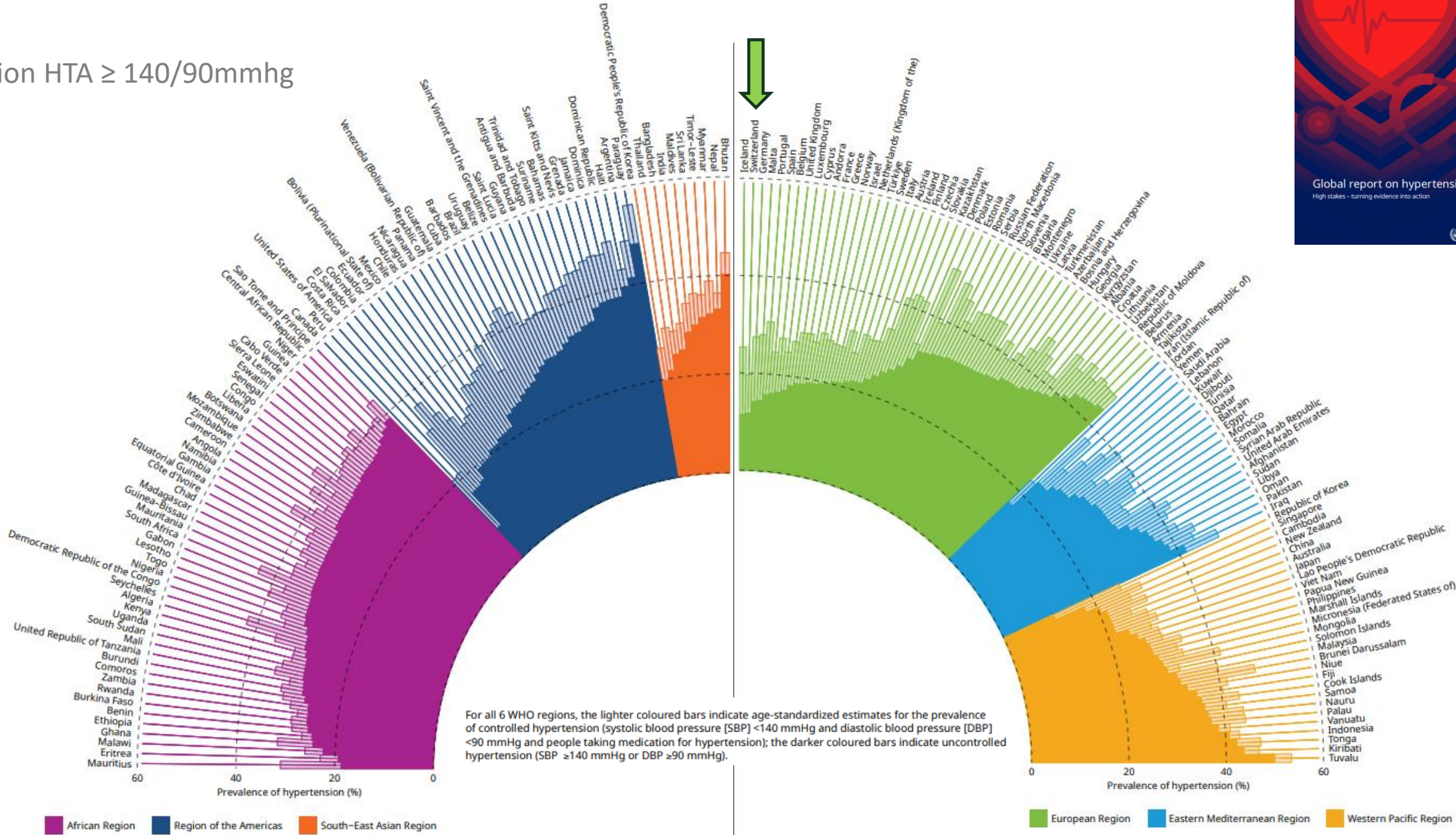
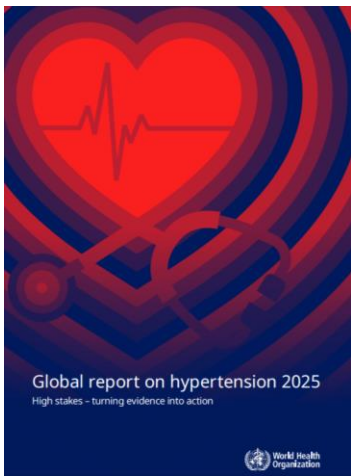


Fig. 2. Number of adults aged 30–79 years with hypertension in 2024, by diagnosis, treatment and control status globally

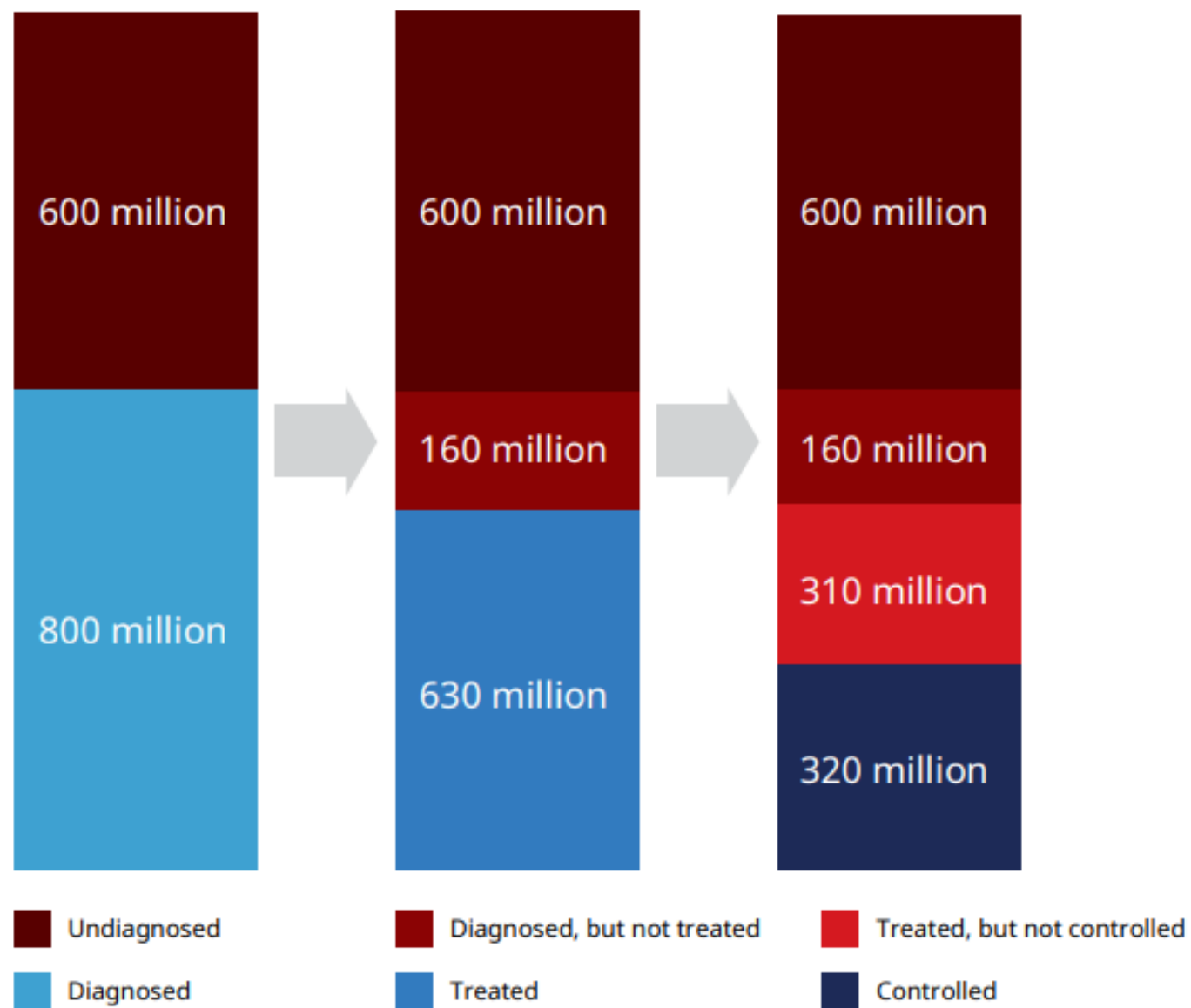
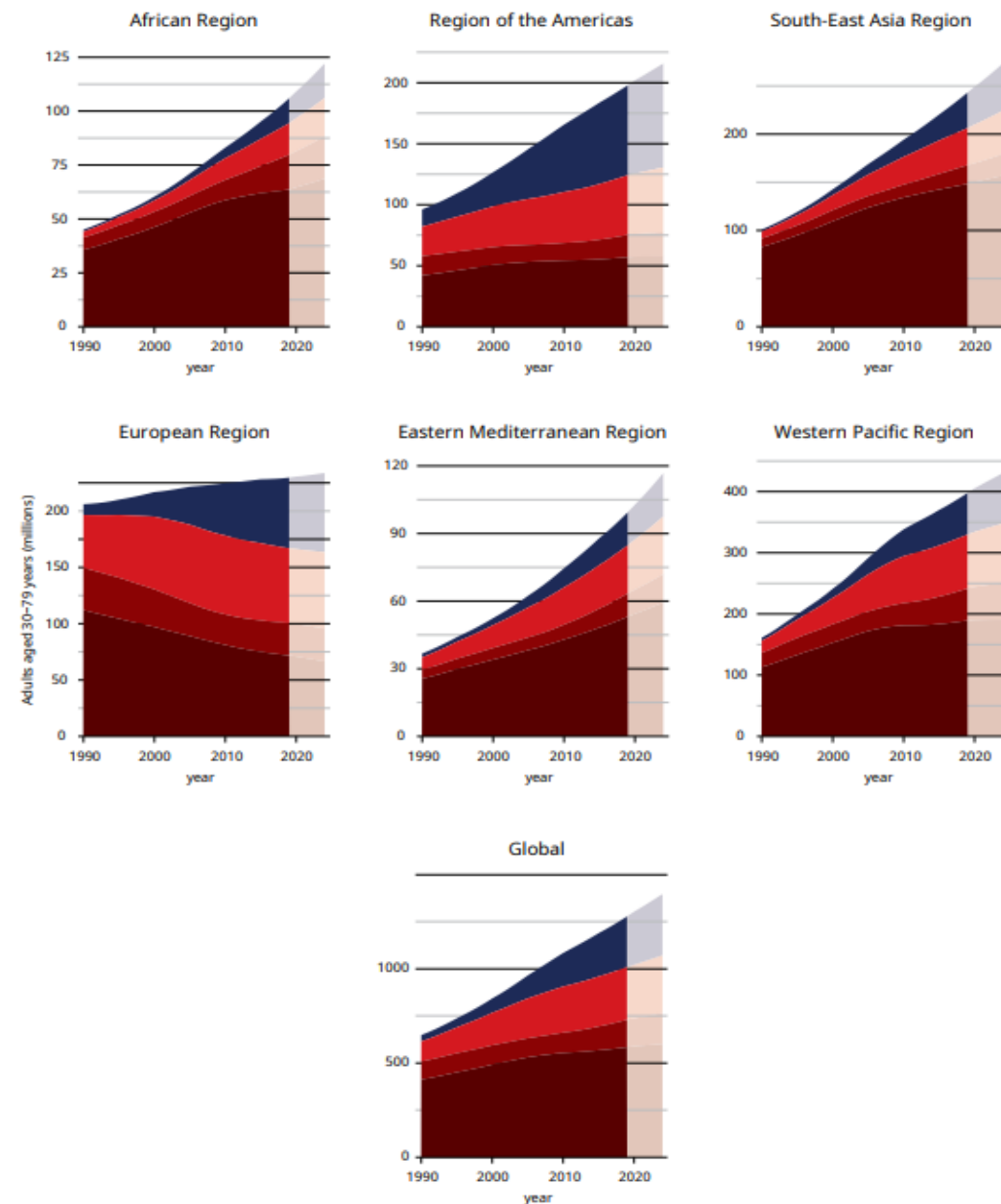


Fig. 3. Global and regional trends in number of adults aged 30–79 years, with hypertension, 1990–2024, disaggregated by control, treatment, and diagnosis status



Source: Projected from NCD Risk Factor Collaboration (NCD-RisC) data (13)

Switzerland

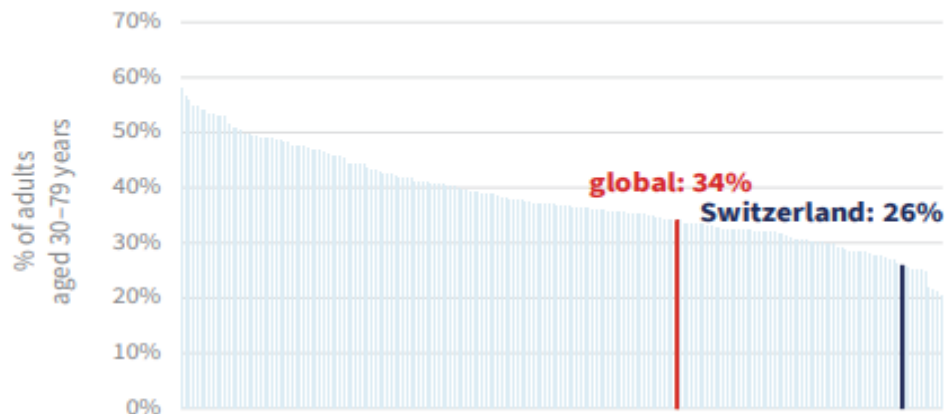
Hypertension profile

Total population (2024): 8 922 000

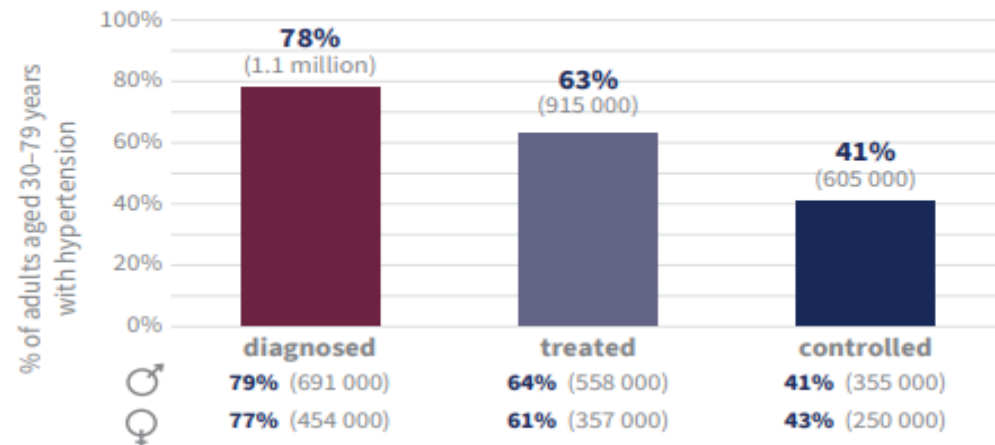
Prevalence of hypertension among adults aged 30–79 years (2024)^a

♂ 26% ♂ 31% ♀ 21%

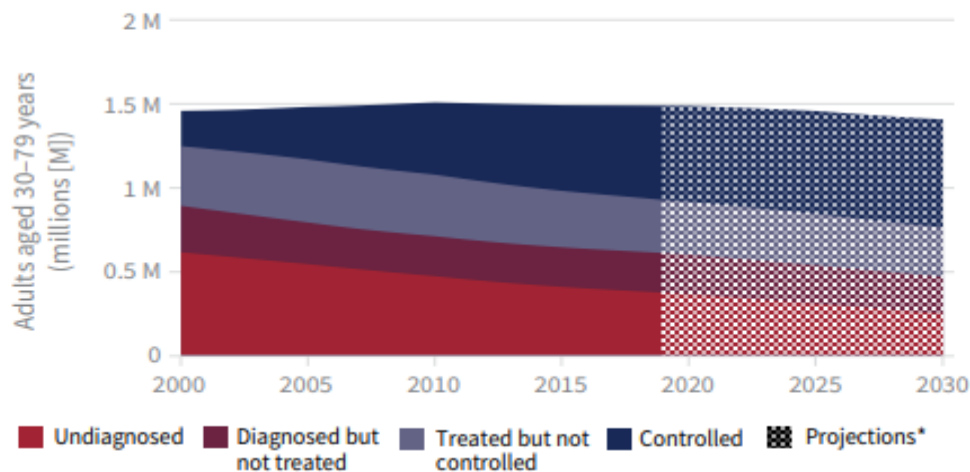
Prevalence of hypertension (adults aged 30–79 years) – country comparison (both sexes)^a



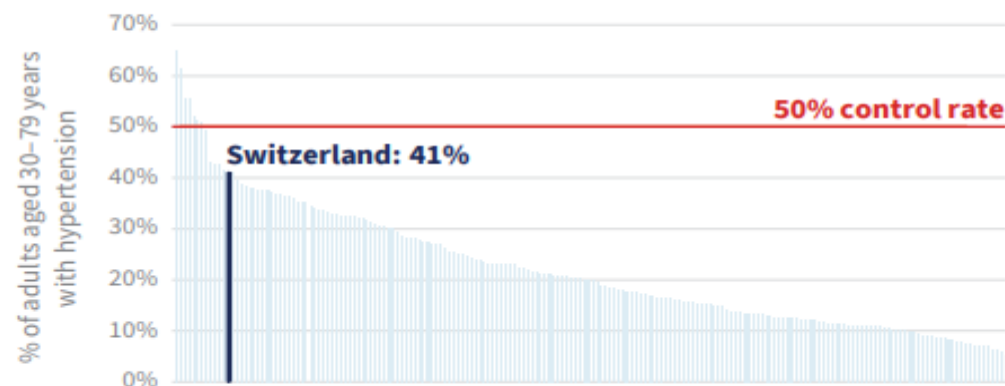
Of the 1.5 million adults aged 30–79 years with hypertension, approximately 855 000 do not have the condition controlled^b



Trends in hypertension disaggregated by diagnosis, treatment and control (both sexes)



Hypertension control rates – country comparison (both sexes)^b





Mortality

	both sexes	males	females	year
Total deaths	71 490	35 280	36 210	2021
Cardiovascular disease deaths	20 470	9530	10 940	2021
Cardiovascular disease deaths attributable to high systolic blood pressure (%)	46	45	47	2021
Risk of premature death from NCDs (%) ^c	8	9	6	2021

Risk factors

	both sexes	males	females	year
Mean population salt intake, adults aged 25+ years (g/day)	8	10	7	2021
Current tobacco use, adults aged 15+ years (%) ^d	26	28	23	2022
Obesity, adults aged 18+ years (%)	14	17	11	2022
Total alcohol per capita consumption, adults aged 15+ years (litres/year)	9	no data	no data	2022
Physical inactivity, adults aged 18+ (%)	19	18	20	2022

National response

Targets

National target for blood pressure	No
National target for salt consumption	No

Policies

Operational cardiovascular disease policy	Yes
Operational salt reduction policy	Yes

Treatment

Guidelines for management of hypertension	Yes
---	-----

Surveillance

Conducted recent, national survey measuring raised blood pressure/hypertension	Yes
Conducted recent, national survey on salt/sodium intake	Yes
Functioning system for generating reliable cause-specific mortality data on a routine basis	Yes
Standardized patient information system broadly available at the primary health care level that captures CVD-related patient data	No

Why measuring blood pressure matters

Accurate blood pressure measurement is foundational to the diagnosis, treatment, and long-term control of hypertension. However, in many health systems – particularly at the primary care level – blood pressure continues to be measured using outdated or non-validated devices, which may lead to systematic misdiagnosis, undertreatment, or overtreatment.

Validated automated blood pressure measurement devices (BPMs), defined as those which have undergone clinical accuracy testing under internationally-accepted protocols, address this critical gap. They reduce observer variability, eliminate terminal digit bias, and are easy to use, thus enabling wider task-sharing among non-physician health staff. Ensuring that only validated devices are used across the health system is essential for delivering reliable and equitable hypertension care.

Blood pressure measurements should be conducted by a trained staff member in a standardized way, with an appropriate cuff, and the patient comfortably seated with their back supported, an empty bladder and legs uncrossed. It is efficient and acceptable to conduct two blood pressure readings at first and use results of the second reading to guide decisions about the need to schedule a follow-up visit to complete the diagnostic work.

Advantages of validated automated BPMs

Accuracy: Validated BPMs are rigorously tested through standardized clinical protocols to ensure accurate readings across diverse populations.

Ease of use: The devices simplify the measurement process; they require minimal training and enable task-sharing among nurses, accredited social health activists, and other non-physician providers.

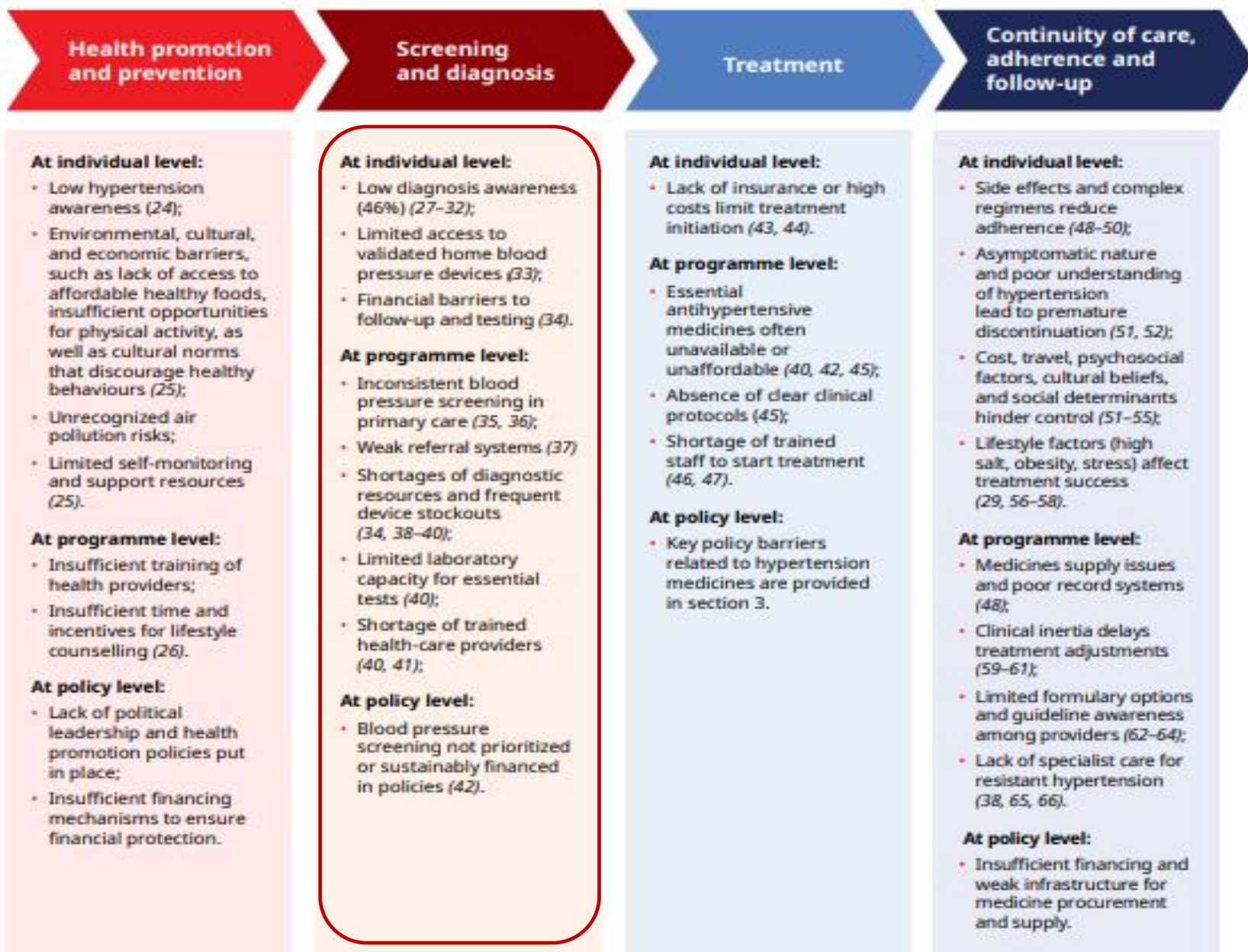
Scalability: The devices are suitable for use at all levels of care, including primary health centres and community clinics.

Reduced human error: The devices eliminate observer bias, hearing-related inaccuracies, and inconsistent inflation–deflation techniques.

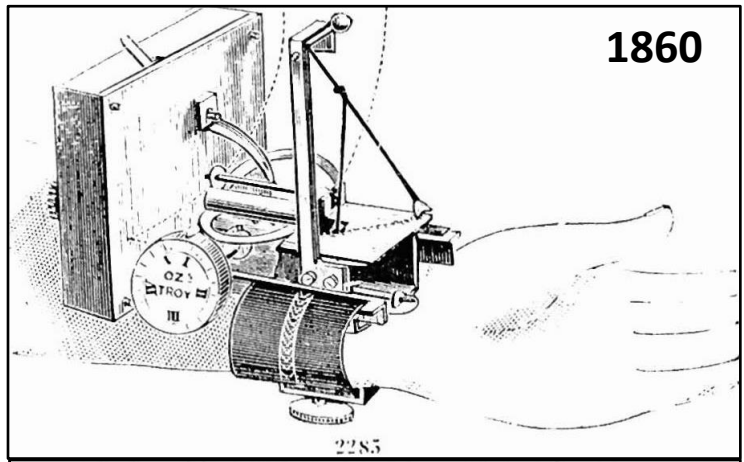
How to advance the use of BPMs

- *Develop clear policy mandates:* The exclusive use of validated BPMs should be a requirement in national NCD programmes and standard treatment guidelines.
- *Define technical specifications:* Issue national-level guidance to standardize specifications for device selection, prioritizing durable, battery-operated models suitable for low-resource settings.
- *Integrate validation status in procurement processes:* Establish rate contracts or framework agreements that screen for ISO 81060-2:2018 compliance.
- *Budget for quality:* Allocate dedicated funds to procure validated BPMs and phase out non-validated models across all levels of care.
- *Build awareness and capacity:* Conduct orientation for procurement officers, programme managers, and clinicians on the importance of using validated devices.

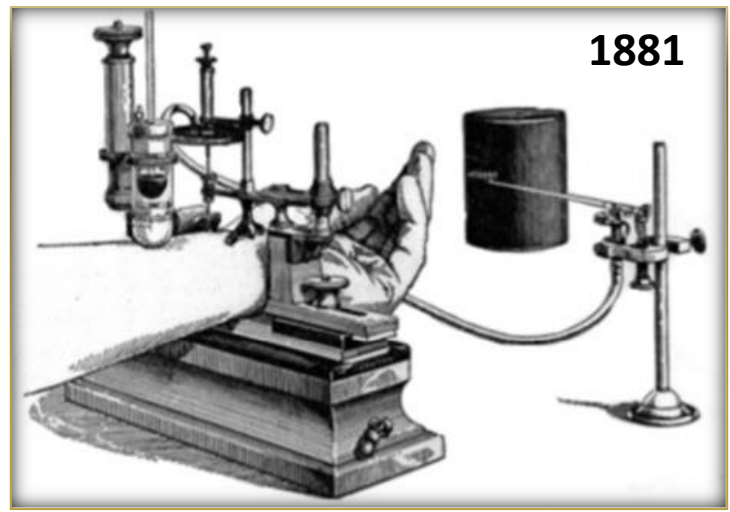
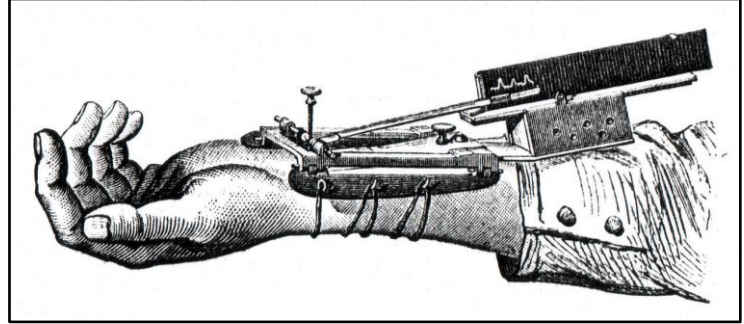
Fig. 8. Key barriers along the continuum of hypertension care



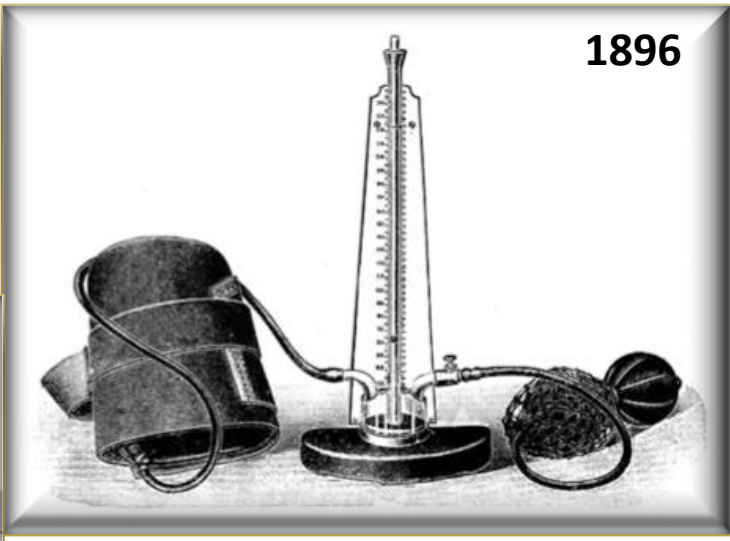
LA MESURE DE LA PRESSION ARTERIELLE HISTOIRE



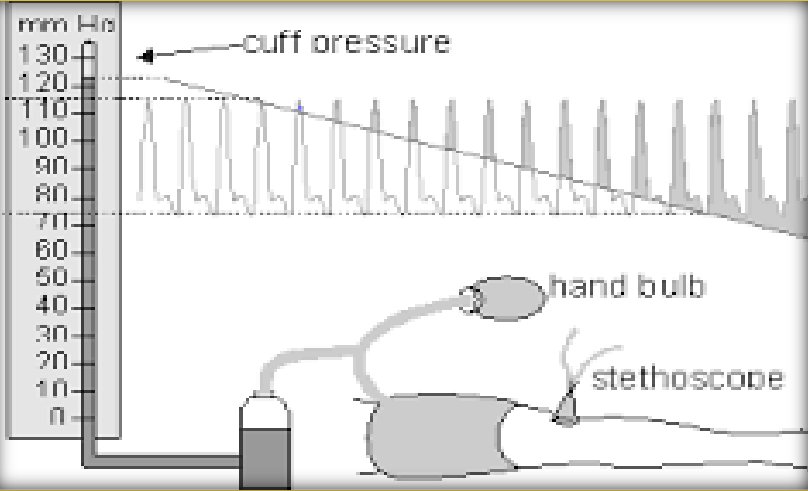
1860



1881



1896

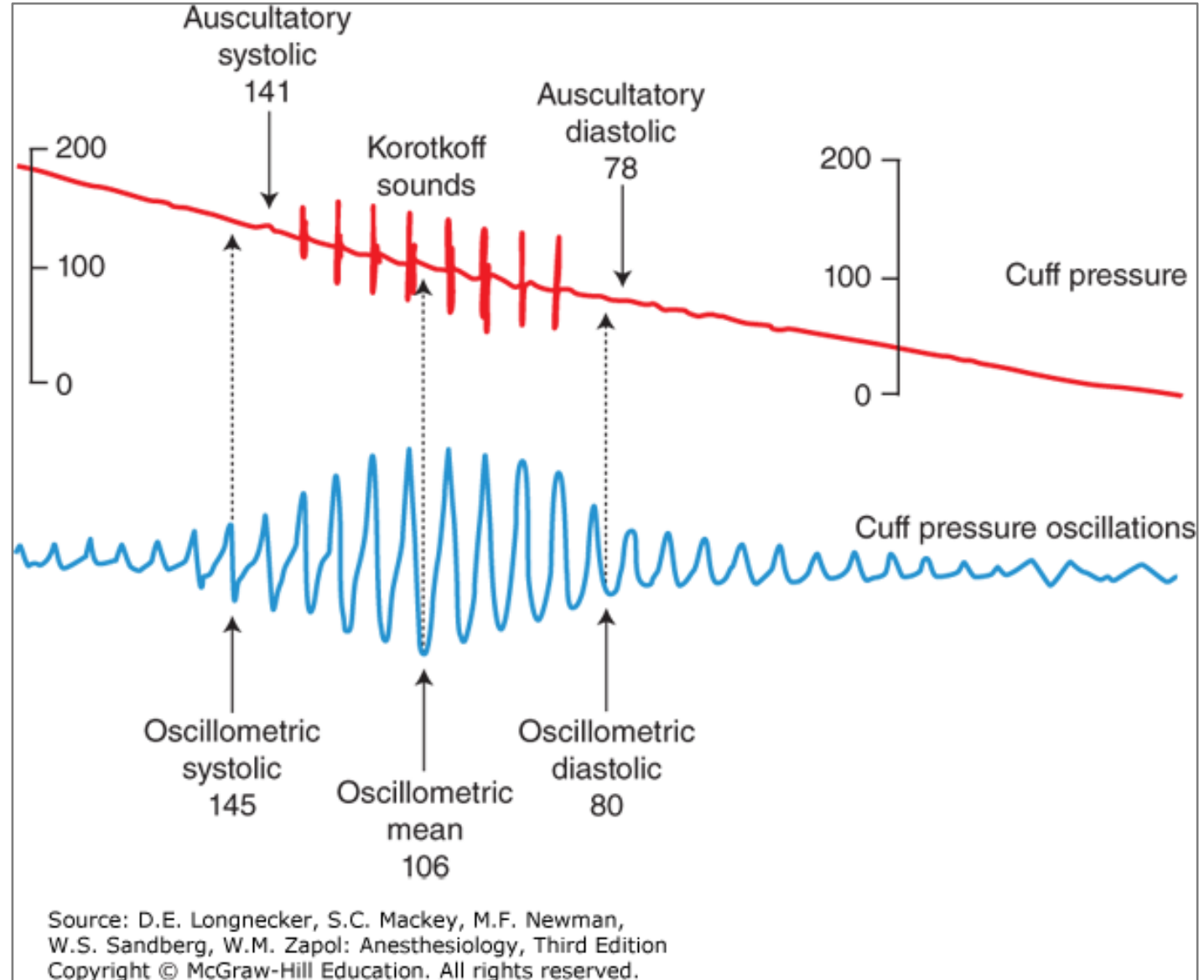


1905

MESURE DE LA PRESSION ARTERIELLE “MODERNE”



- **1974 : 1er appareil oscillométrique numérique.**
- Mesure la pression exercée sur le brassard par le sang
- Données utilisées pour estimer les pressions systoliques et diastoliques par des algorithmes.



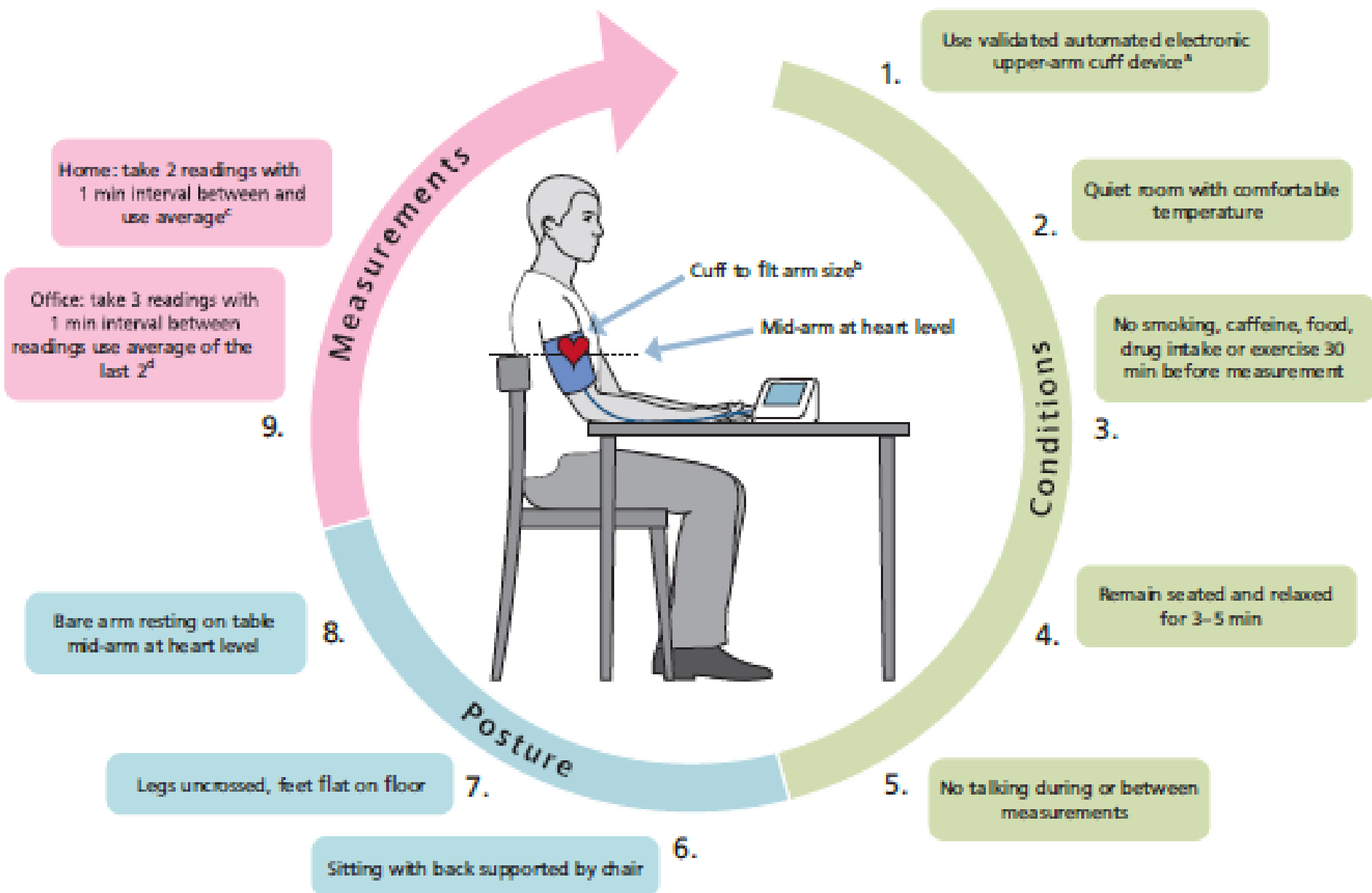
MESURE ET MONITORING



Devices for BP measurement

Recommendations and statements	CoR	LoE
Automatic electronic, upper-arm cuff devices are recommended for office and out-of-office BP measurement (home and ambulatory).	I	B
Hybrid manual auscultatory devices with LCD or LED display, or digital countdown, or shock-resistant aneroid devices can be used for office BP measurement if automated devices are not available.	I	B
Only properly validated devices should be used. www.stridebp.org	I	B
Cuffless BP devices should not be used for the evaluation or management of hypertension in clinical practice.	III	C





2021 European Society of Hypertension practice guidelines for office and out-of-office blood pressure measurement

Office BP	High	White-coat hypertension 15-25%	Sustained hypertension
	Low	Normotension	Masked hypertension 10-20%
		Low	High

TABLE 4. Interpretation of average OBP (at least 2-3 visits with 2-3 measurements per visit)

	Normal-optimal BP (<130/85 mmHg)	High-normal BP (130–139/85–89 mmHg)	Hypertension Grade 1 (140–159/90–99 mmHg)	Hypertension Grade 2 and 3 (≥160/100 mmHg)
Diagnosis	Normotension highly probable	Consider MH	Consider WCH	Sustained hypertension highly probable
Action	Remeasure after 1 year (6 months in those with other risk factors)	Perform HBPM and/or ABPM. If not available confirm with repeated office visits		Confirm within a few days or weeks ^a . Ideally use HBPM or ABPM

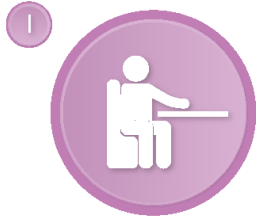
^aTreat immediately if OBP is very high (e.g. ≥180/110 mmHg) and there is evidence of target organ damage or CVD.

Home or Ambulatory BP

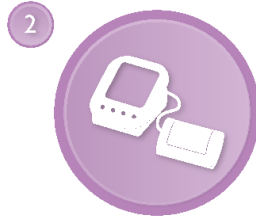
TABLE 12. Clinical utility of office and out-of-office BP measurement methods

Clinical use	Office	Home	24 h ambulatory	Pharmacy
Screening	+++	+	-	++
Initial diagnosis	+	++	+++	-
Treatment titration	+	++	++	-
Follow-up	++	+++	+	+
Main indication	Screening of untreated individuals. Follow-up of treated patients	Long-term follow-up of treated patients (preferred method)	Initial diagnosis (preferred method)	Screening of untreated individuals. Follow-up of treated patients
Hypertension (mmHg)	≥140/90	≥135/85	≥130/80	≥135/85 (?)

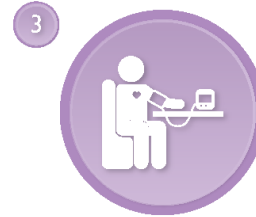
Office blood pressure measurement



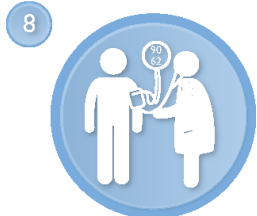
1 Measure after 5 min seated comfortably in a quiet environment



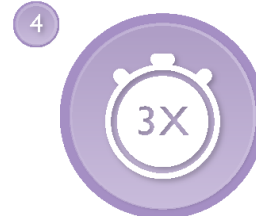
2 Use a validated device with an appropriate cuff size based on arm circumference



3 Place the BP cuff at the level of the heart with the patient's back and arm supported



8 Assess for orthostatic hypotension at 1st visit and thereafter by symptoms



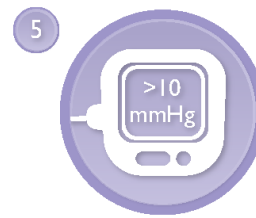
4 Measure BP three times (1–2 min apart) and average the last 2 readings



7 Record heart rate and exclude arrhythmia by pulse palpation

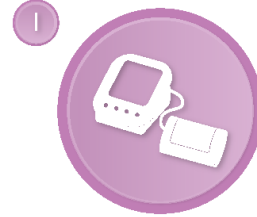


6 Measure BP in both arms at the 1st visit to detect between arm differences

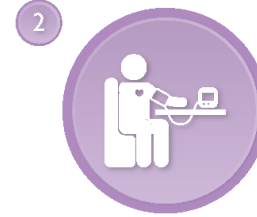


5 Obtain further measurements if the readings differ by >10 mmHg

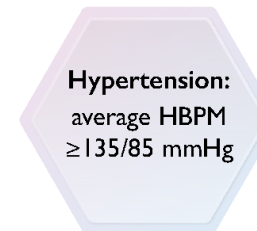
Home-based blood pressure measurement



1 Use a validated BP device



2 Measure BP in a quiet room after 5 min of rest with arm and back supported



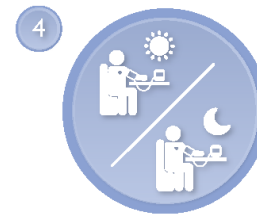
Hypertension:
average HBPM
≥135/85 mmHg



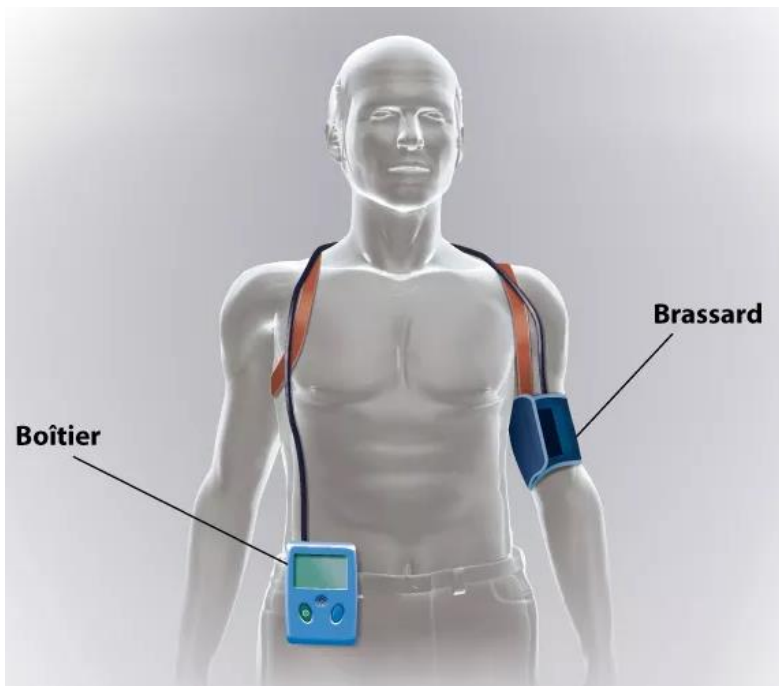
3 Obtain two readings on each occasion, 1–2 min apart



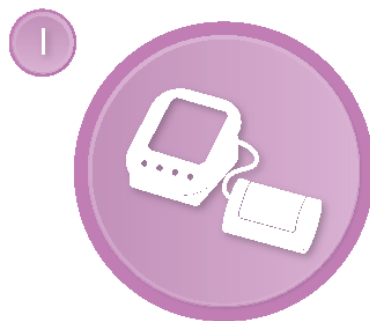
5 Record and average all readings and present results to clinician



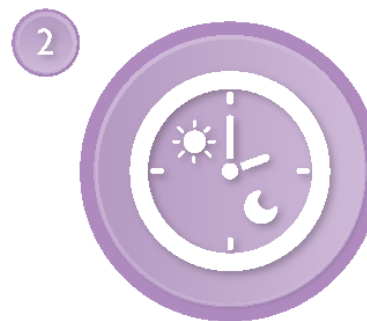
4 Obtain readings twice a day (morning^a and evening) for at least 3 and ideally 7 days



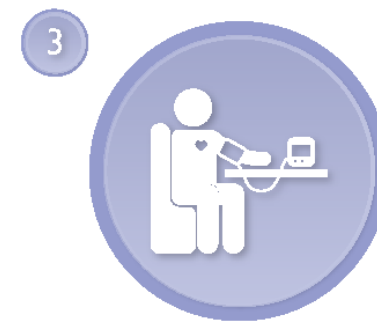
Ambulatory blood pressure measurement



Use a validated BP device



Device usually records BP at 15–30 min intervals during the day and 30–60 min at night



A minimum of 70% usable BP recordings is required

Hypertension:
ABPM $\geq 130/80$ mmHg over 24 h
or
 $\geq 135/85$ mmHg for the daytime average
or
 $\geq 120/70$ mmHg for the night-time average



A diary of the patient's activities, intake of medications and sleep time should be completed

Recommended upper arm devices for self-measurement of blood pressure



A&D TM-2430 (Boso TM)

- Method: Osc
- BHS: A/A
- DBL: Yes
- Available in Switzerland: Yes
- Cost: 2'520 CHF

Read more: [Zetmed](#)



Arteriomed Tensioday

- Method: Osc
- BHS: A/A
- DBL: Yes
- Available in Switzerland: Yes (available via Germany)
- Cost: 1'750 CHF

Read more: [Arteriomed](#)



Diasys Integra II

- Method: Osc & Aus
- BHS: B/B
- DBL: Yes
- Available in Switzerland: Yes
- Cost: 6'450 CHF / 4'925 (Osc only)

Read more: [Physicor](#)



IEM Mobil-O-Graph NG (with Pulse Wave Analysis)

- Method: Osc
- BHS: A/A
- DBL: Yes
- Available in Switzerland: Yes
- Cost: 2'700 CHF

Read more: [I.E.M. GmbH](#)



Microlife WatchBP O3

- Method: Osc
- DBL: Yes
- Available in Switzerland: Yes
- Cost: 2'520 CHF

Read more: [WatchBP](#)

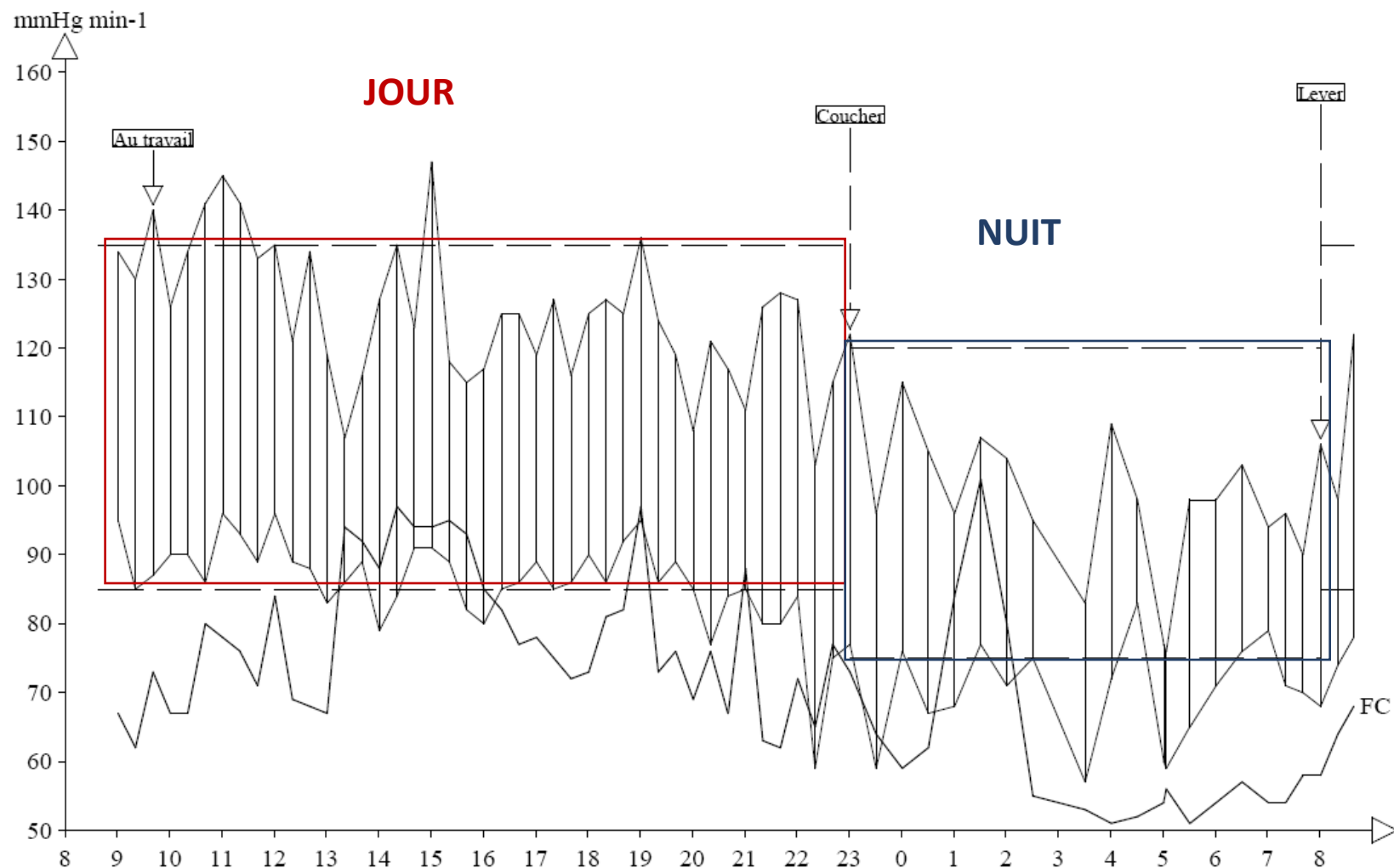


Schiller BR-102 plus

- Method: Osc & Aus
- DBL: Yes
- Available in Switzerland: Yes
- Cost: 3'450 CHF

Read more: [Schiller](#)

Chronogrammes des Mesures





Blood pressure classification

Non-elevated blood pressure	Elevated blood pressure	Hypertension
Office BP SBP <120 mmHg and DBP <70 mmHg	Office BP SBP 120–139 mmHg or DBP 70–89 mmHg	Office BP SBP ≥140 mmHg or DBP ≥90 mmHg
HBPM SBP <120 mmHg and DBP <70 mmHg	HBPM SBP 120–134 mmHg or DBP 70–84 mmHg	HBPM SBP ≥135 mmHg or DBP ≥85 mmHg
ABPM Daytime SBP <120 mmHg and Daytime DBP <70 mmHg	ABPM Daytime SBP 120–134 mmHg or Daytime DBP 70–84 mmHg	ABPM Daytime SBP ≥135 mmHg or Daytime DBP ≥85 mmHg
Insufficient evidence confirming the efficacy and safety of BP pharmacological treatment	Risk stratify to identify individuals with high cardiovascular risk for BP pharmacological treatment	Cardiovascular risk is sufficiently high to merit BP pharmacological treatment initiation
The diagnosis of hypertension and elevated BP requires confirmation using out-of-office measurements (HBPM or ABPM) or at least one additional subsequent office measurement		



Seuils de pressions artérielles différentes selon l'endroit de la mesure pour définir une hypertension



Office



Home



24h-ABPM

SITUATIONS DANS LESQUELLES LA PA EST MESURÉE



Attended







Unattended








Home

MÉTHODES DE MESURES DIFFÉRENTES – ASSISTANCE APP: COMPARAISONS

Methods

-  113 patients with hypertension
-  Multi-center: 3 hypertension clinics 2020-2022
-  Randomized cross-over design
-  5 different BP measurement methods

Results	 Mean 24-hour ambulatory BP: 126/73 mm Hg <i>(Reference standard)</i>			
	 App-assisted home BP	 30-min BP	 Attended office BP	 Unattended office BP
Mean BP (mm Hg)	141/82	134/80	137/81	135/81
Agreement hypertension* (κ-statistic (95% CI))	0.33 (0.18 - 0.47)	0.30 (0.13 - 0.47)	0.48 (0.31 - 0.65)	0.41 (0.22 - 0.59)

*Home BP monitoring (HBPM): ≥135/85 mm Hg, 30-min BP: ≥135/85 mm Hg, attended OBP: ≥140/90 mm Hg, unattended OBP: ≥140/90 mm Hg.

PERFORMANCES OF APP-ASSISTED HBPM



Table 3. Diagnostic Performance of App-Assisted HBPM and Automated OBP Monitoring in Detecting Hypertension Diagnosed by 24-Hour Ambulatory Blood Pressure Monitoring (Reference)

	Sensitivity (%)	Specificity (%)	PPV (%)	NPV (%)	κ coefficient
HBPM	92 (78–98)	46 (33–59)	51 (38–63)	90 (74–98)	0.33 (0.18–0.47)
Unattended 30-min BP	77 (61–89)	56 (42–68)	53 (39–66)	79 (64–90)	0.30 (0.13–0.47)
Attended OBP	77 (61–89)	73 (60–83)	64 (49–77)	83 (71–92)	0.48 (0.31–0.65)
Unattended OBP	62 (45–77)	79 (66–88)	65 (47–80)	76 (64–86)	0.41 (0.22–0.59)

Table 4. Diagnostic Performance of App-Assisted Home Against 24-Hour Ambulatory BP Monitoring (Reference) in Detecting Different Hypertension Phenotypes

	Sensitivity (%)	Specificity (%)	PPV (%)	NPV (%)	κ coefficient
Sustained hypertension	92 (78–98)	46 (33–59)	51 (38–63)	90 (74–98)	0.33 (0.18–0.47)
White-coat hypertension	32 (16–52)	99 (92–100)	90 (55–100)	81 (68–86)	0.38 (0.18–0.58)
Masked hypertension	80 (44–97)	84 (75–91)	36 (17–59)	97 (91–100)	0.42 (0.20–0.64)

CONCLUSIONS ETUDE

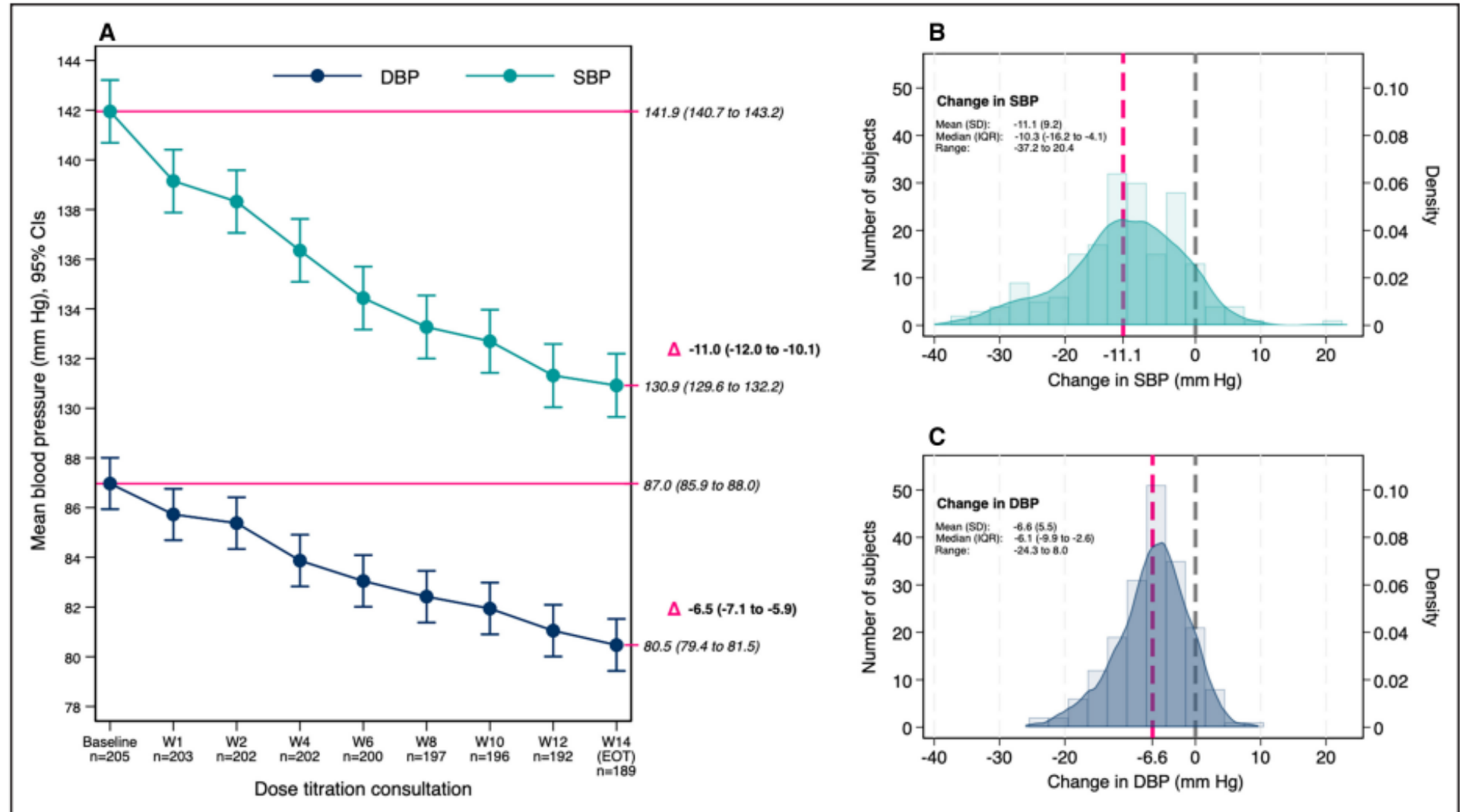
This study showed a **considerable (diagnostic) disagreement between app-assisted HBPM and ABPM.**

App-assisted HBPM had **high sensitivity in the diagnosis of sustained and masked hypertension** and may therefore be used as **complementary tool, but not a replacement of, ABPM**

OPEN-LABEL, REMOTE, DOSE TITRATION TRIAL USING DAILY HOME SELF-MONITORING OF BP, DRUG DOSE, AND SIDE EFFECTS WITH LINKED SMARTPHONE APP AND TELEMONITORING IN ADULTS WITH UNCONTROLLED HT

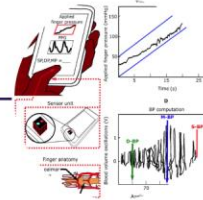
Outcome I:
mean SBP change from baseline to end of treatment.
N= 205

Results:
mean BP reduction of 11 (95% CI, 10–12)/7 (95% CI, 6–7) mmHg,

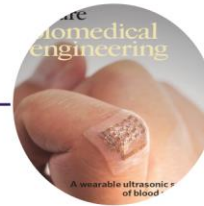


WHAT IS NEXT?

Cuff-less or Cuff-free



Finger
oscillometry



Body sensors



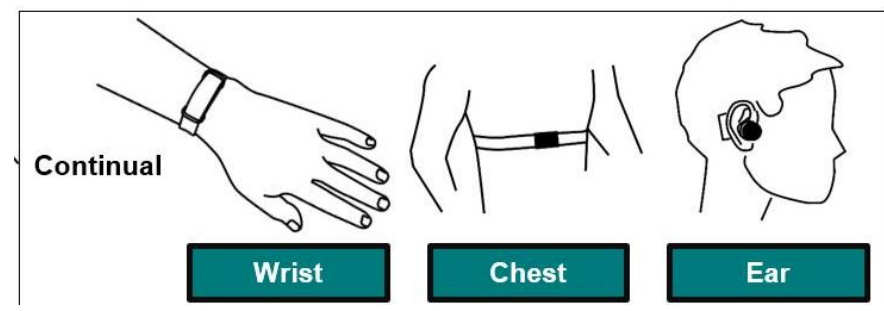
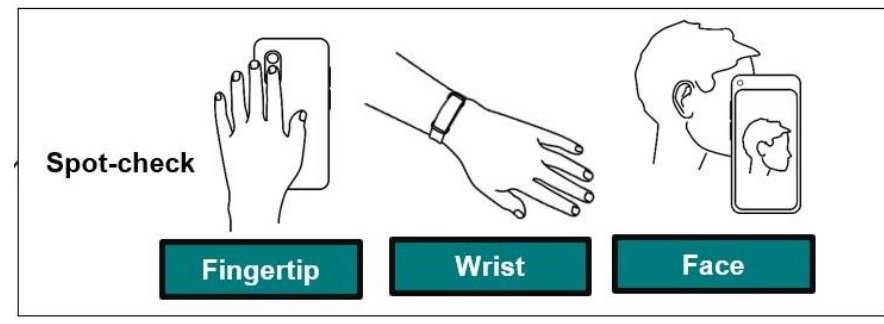
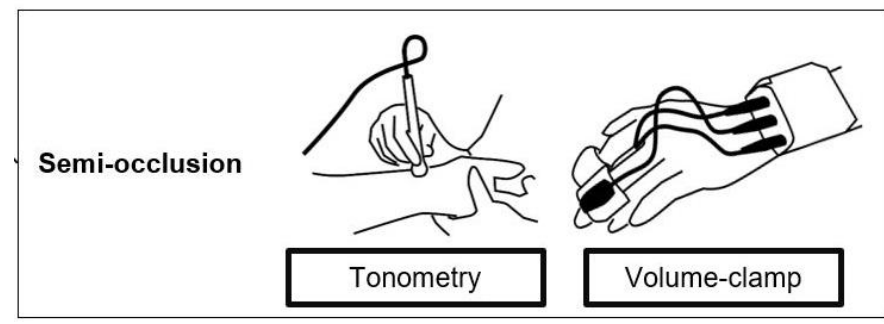
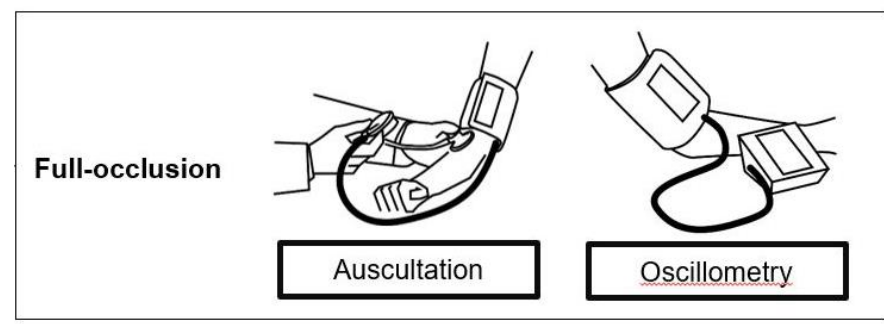
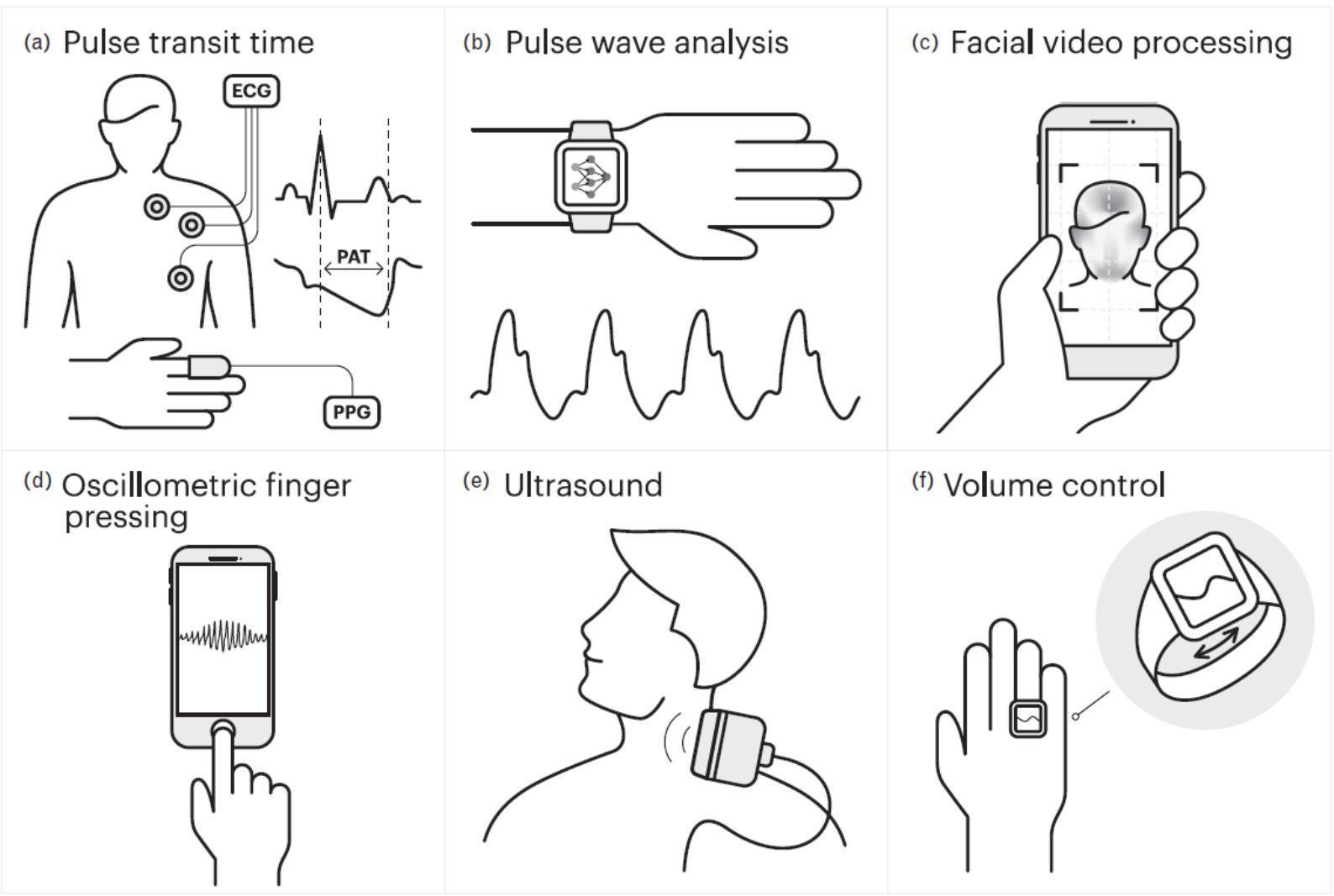
Reflectance
Pulse oximetry



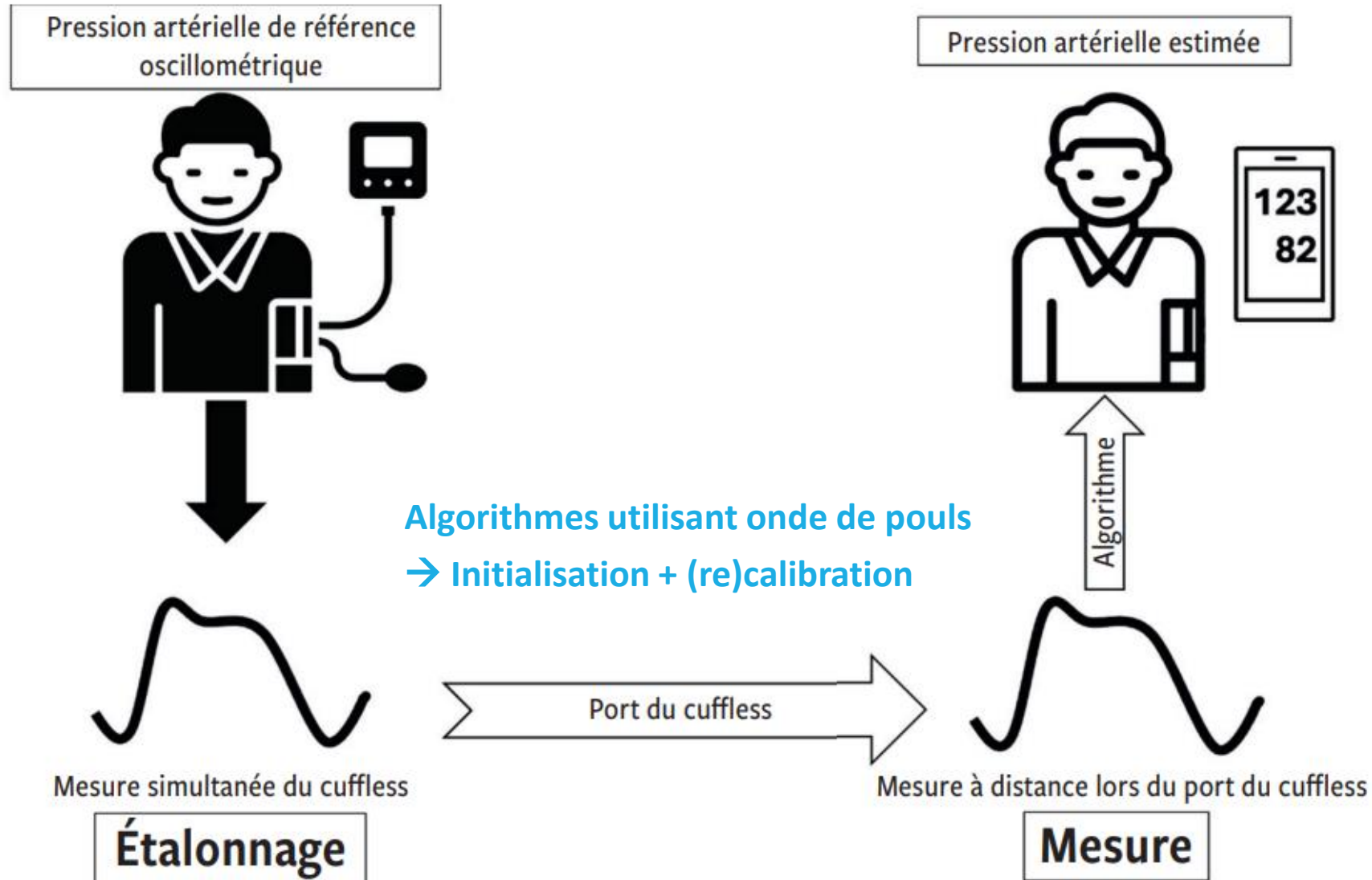
Optical sensors



Cuffless blood pressure measuring devices: review and statement by the European Society of Hypertension Working Group on Blood Pressure Monitoring and Cardiovascular Variability



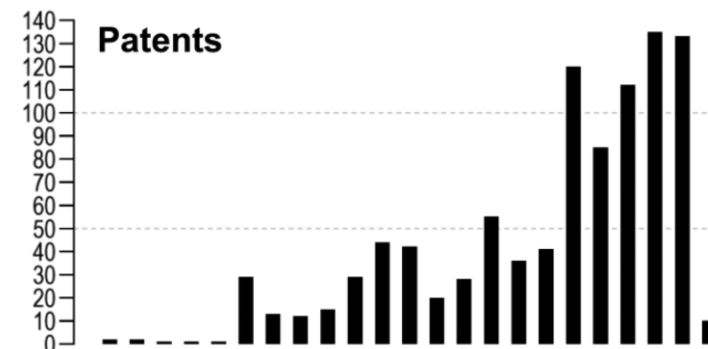
CONCEPT GENERAL DES CUFFLESS



MAIN FEATURES OF STANDARDS SPECIFICALLY DEVELOPED FOR THE VALIDATION OF CUFFLESS BLOOD PRESSURE MEASURING DEVICES

	Institute of Electrical and Electronic Engineers IEEE 1708-2014 & 1708a-2019	International Organization for Standardization ISO 81060-3 (Under development)
Intended use	Cuffless wearable BP devices	Cuffless continuous BP devices
Number of subjects	≥85	30-120 depending on intraclass correlation for each BP parameter
Reference method	Manual auscultatory	Intra-arterial
Validation phases		
<i>A. Test immediately post calibration</i>	Yes	Yes
<i>B. Test after BP change</i>	Specific requirements for BP change	Specific requirements for BP change
<i>C. Test before re- calibration</i>	Yes	Yes
Procedure for inducing BP changes	Not specified	Not specified (subjects may already be hemodynamically unstable)
BP measurement sequence	Simultaneous or sequential	Simultaneous
Pass requirements (mean error limit)	≤6 mmHg (for BP changes ≤7 mmHg)	≤6 mmHg (SD ≤10 mmHg)

PRINCIPAUX DISPOSITIFS CUFFLESS DISPONIBLES EN SUISSE (RMS2025)

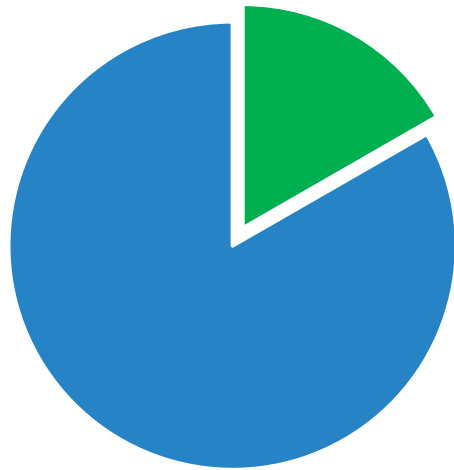


***510(k) Clearance**: la FDA reconnaît que le dispositif est **substantiellement équivalent** à un autre déjà sur le marché.
 CE: conformité européenne; FDA: Food and Drug Administration; PA: pression artérielle; PPG: photopléthysmographie.

Marque	Dispositif	Type de capteur	Marquage CE	Reconnaissance FDA (510k)*	Validé par les sociétés savantes	Usage prévu
Biobeat Technologies	Patch pectoral	PPG	✓	✓	✗	Mesure ponctuelle non invasive de la PA et d'autres signes vitaux
Biospectral optiBP	Smartphone	PPG	✓	✗	✗	Application médicale mobile destinée à être utilisée sur une plateforme informatique mobile compatible pour afficher la PA sur la base d'un signal de PPG
Corsano Health CardioWatch 287-2	Bracelet	PPG	✓	✓	✗	Mesure non invasive intermittente ou à la demande de la PA et d'autres signes vitaux
(Hilo) par Aktiia	Bracelet	PPG	✓	✓	✗	Surveillance continue de la PA
Samsung Galaxy Watch	Montre	PPG	✓	✗	✗	Surveillance de santé destinée au grand public

AVANTAGES CUFFLESS DEVICES? FACILITATE REGULAR MEASUREMENT OF BP

Adherence to HBPM monitoring

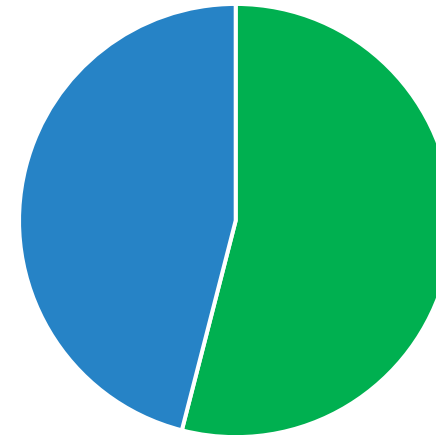


- Uses HBPM monthly or weekly
- Never uses HBPM or uses HBPM less than once a month

N = 10'958 US citizens from the NHANES survey between 2011 and 2014.

Data from Am J Hypertens. 2017 Nov 1; 30(11): 1126–1132.

Adherence to cuffless monitoring



- Engages with BP data monthly or weekly
- Stops engaging with wearable or engages less than once a month

N = 8'471 EU citizens that started using a wearable device between January and July 2022.

Internal Aktiia data.

CHALLENGES POUR LA VALIDATION DES « CUFFLESS »

- Le but de l'utilisation doit être clair
 - screening? diagnostic? follow-up?
- Obtenir un standard reconnu et accepté pour la validation
- Doit inclure suffisamment de variation de PA intra- and inter-patient
- L'impacte du modèle mathématique doit être transparent
 - age, gender, ...

Exemple: Hilo



- Signaux optiques photo-plethysmographiques, analyse du changement de diamètre artériel, à chaque battement cardiaque
- Calcule de la TAS et TAD via des algorithmes qui utilisent l'analyse de l'onde de pouls.
- Calibration de l'appareil 1x/mois
- Fiable pour la mesure de la TA en position assise
- Non validé encore pour les mesures nocturnes

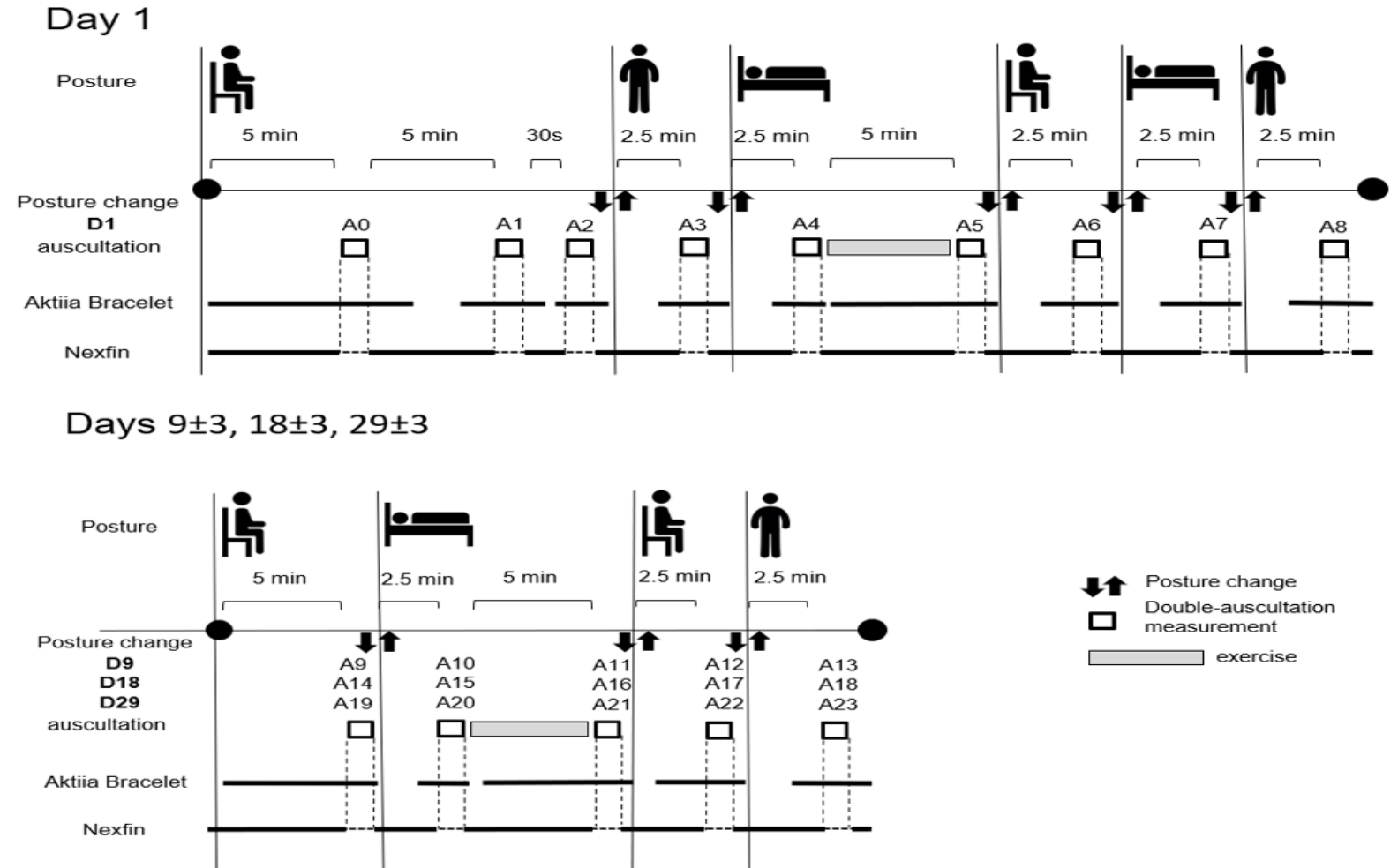
Design of the validation protocol (CE)

Day 1

- Immediate post qualibration accuracy
- Tracking of BP changes with position

Day 9 to 29

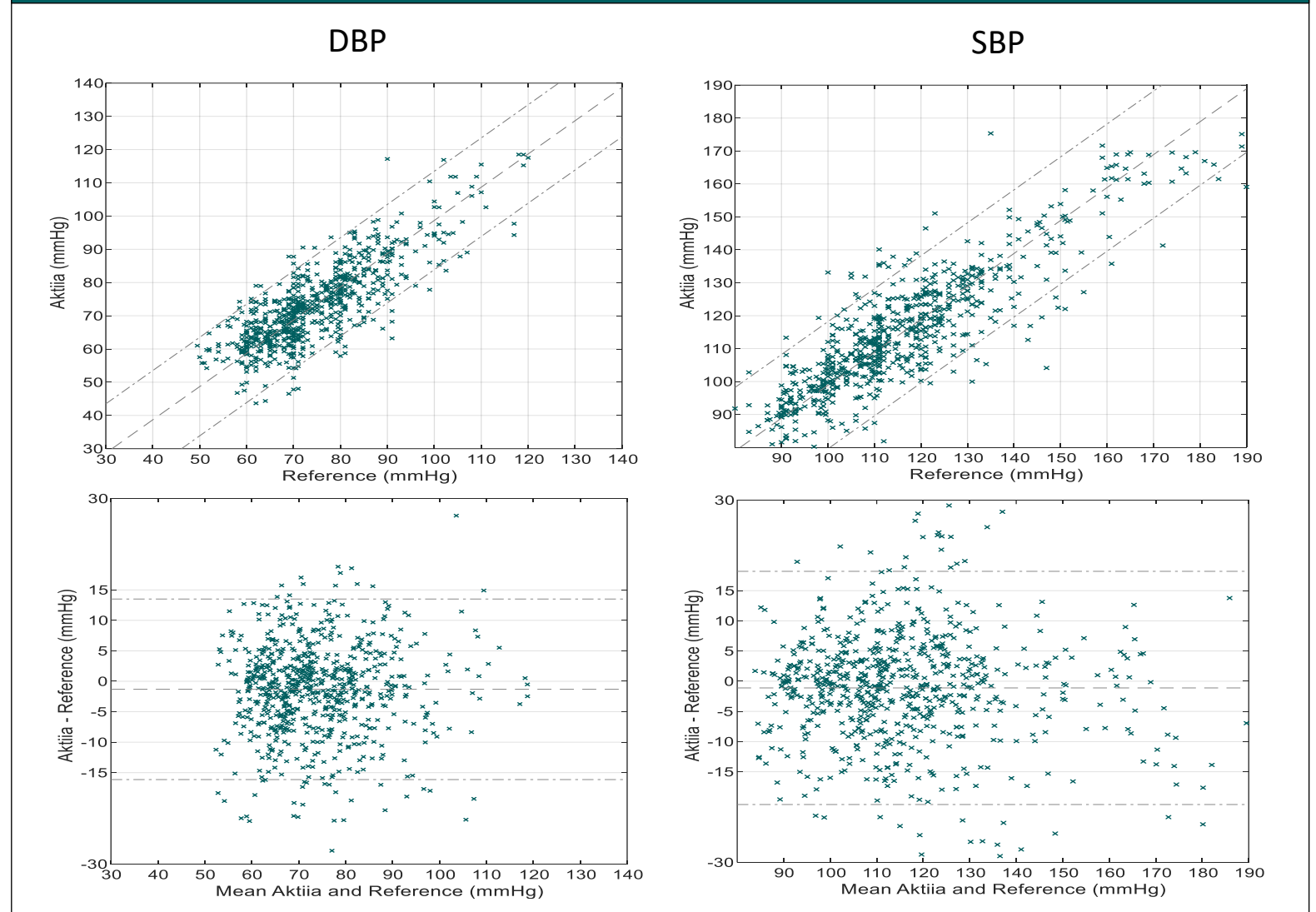
- Stability of accuracy with time



PERFORMANCE DANS DIFFÉRENTES POSITIONS



ALL

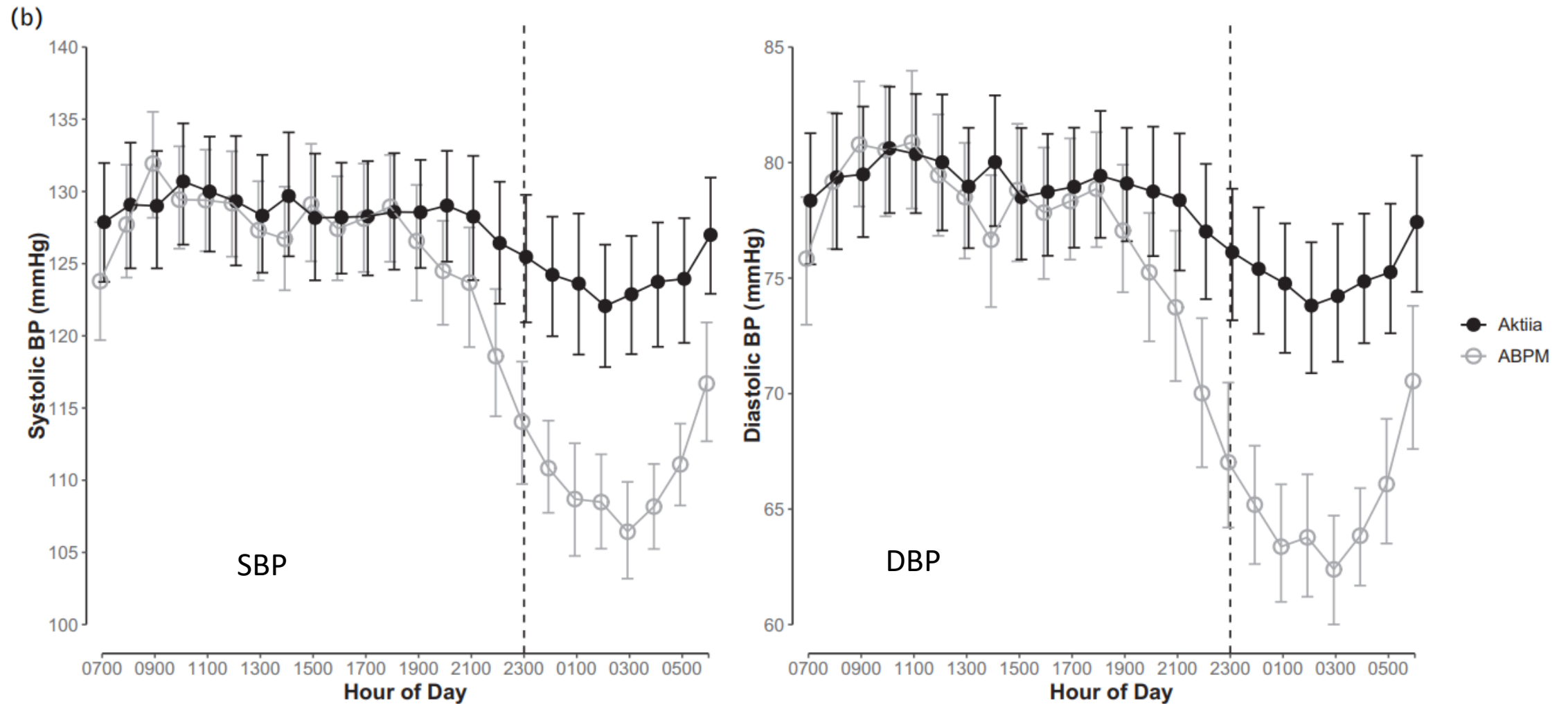


PERFORMANCE DANS DIFFÉRENTES POSITIONS

Mean ± Std (mmHg)	All positions	Lying	Sitting - wrist at heart level	Sitting - wrist at lap level	Standing
Systolic blood pressure	-1.11 ± 9.85	-2.44 ± 10.15	0.46 ± 7.75	-3.02 ± 6.10	-0.62 ± 12.51
Diastolic blood pressure	-1.32 ± 7.56	-1.93 ± 7.65	0.39 ± 6.86	-4.22 ± 6.56	-4.85 ± 9.11

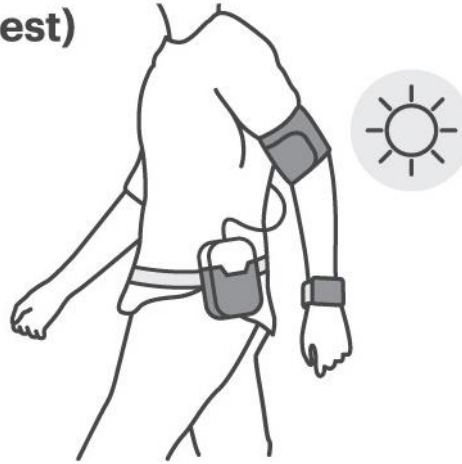
Mean and SD of the differences between reference and the Aktiia

24H BP TRACKING: ABPM VS COMMERCIALY AVAILABLE CUFFLESS DEVICE



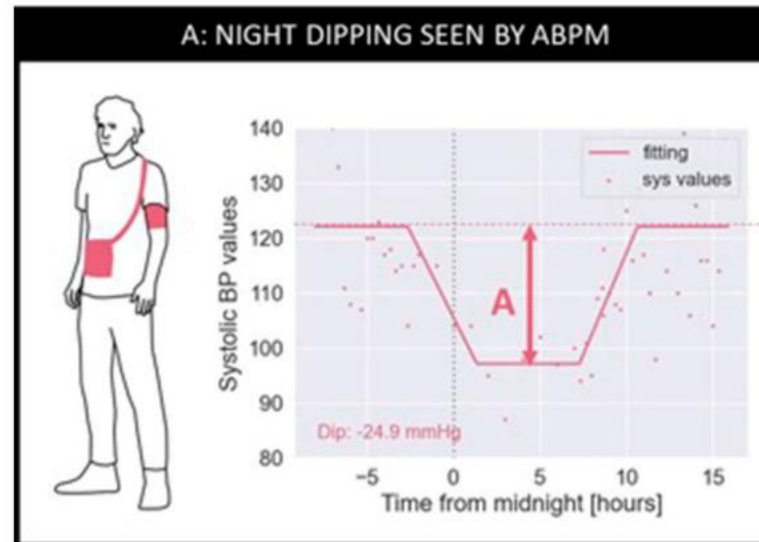
AWAKE / ASLEEP TEST

4. Awake/asleep test (primary test)

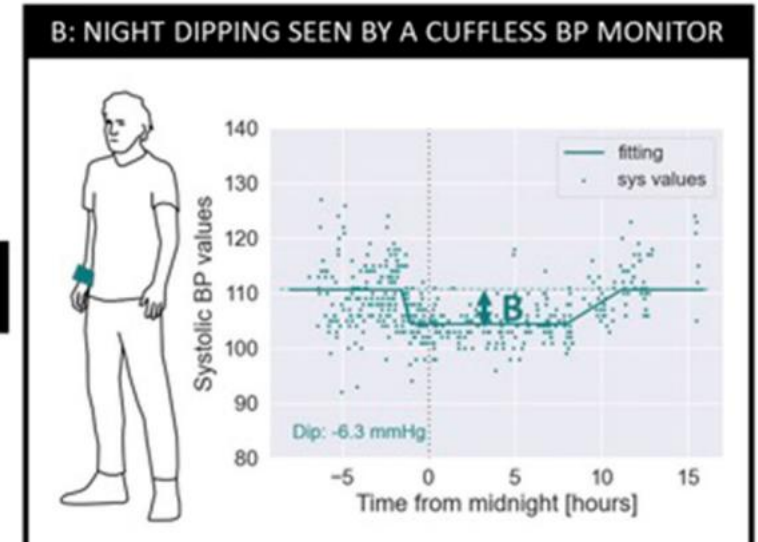


24-hour cuffless BP monitoring and upper-arm cuff oscillometric ambulatory monitoring to compare the awake/asleep BP change measured by the two devices

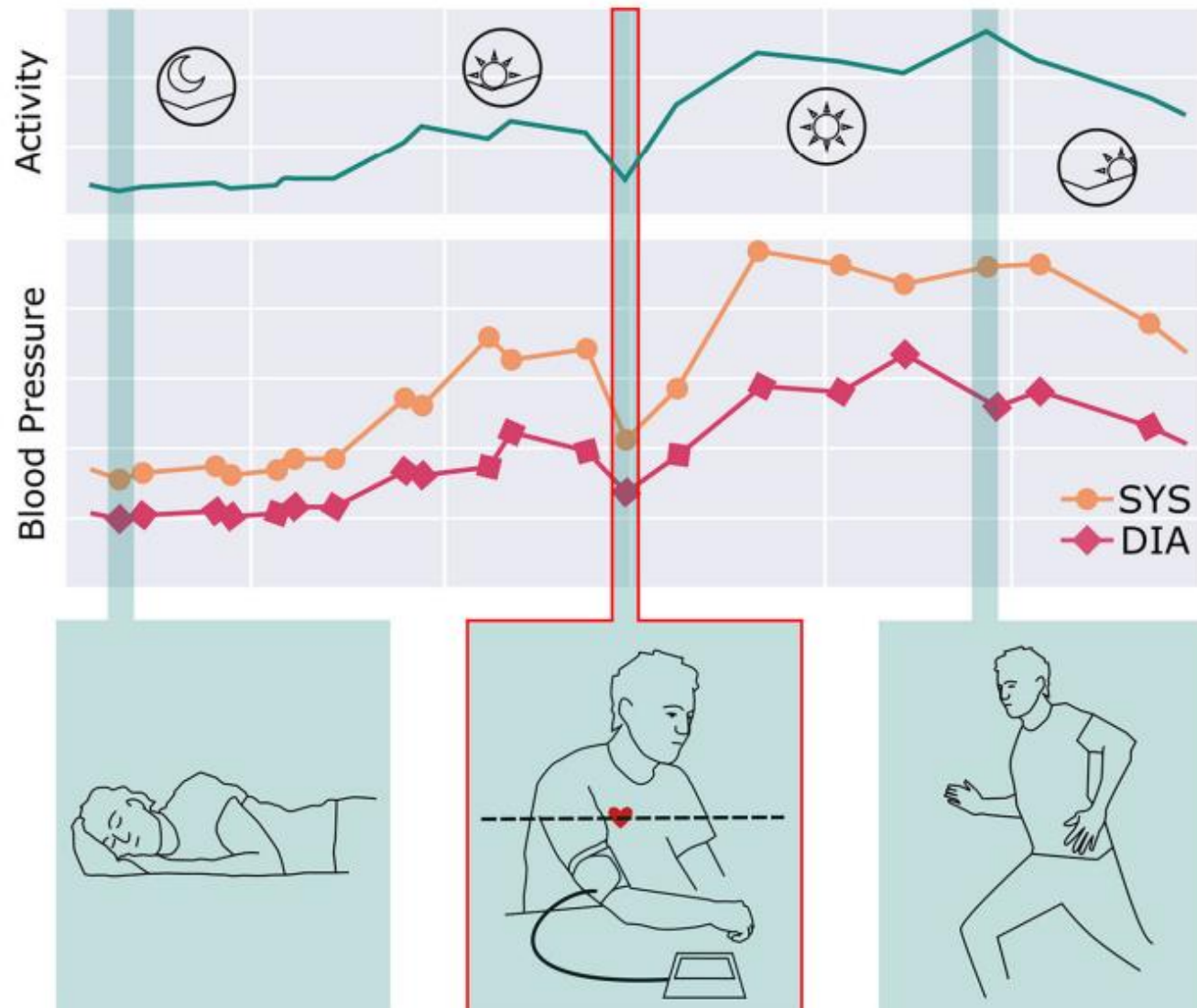
≥ 35 Error in awake/asleep BP change $\leq 5 \pm 8$ (mean \pm SD) mmHg






A > B



RÉALITÉ DE LA PRESSION ARTÉRIELLE: VARIATIONS CONTINUES



-  No smoking, caffeine, food, exercise 30min before
-  Quiet room
-  Comfortable temperature
-  3-5min rest
-  No talking during or between measurements

Aspect unique pour validation clinique des cuffless



Ability to track BP changes



Impact of different device positions relative to the heart



Stability of cuff calibration accuracy over time



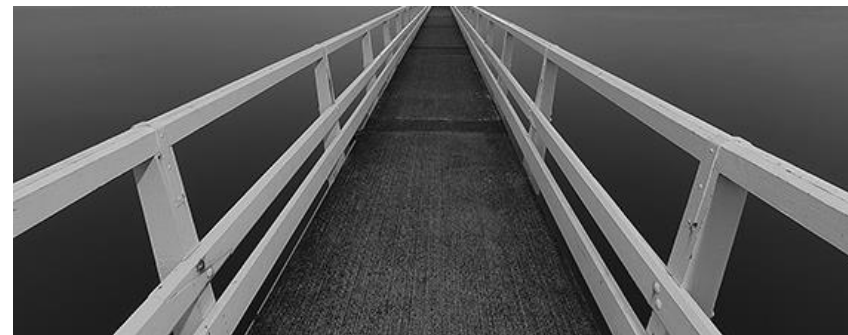
Impact of body movement and physical activity

EVIDENCES PAR RAPPORTS AUX DIFFÉRENTES MESURE DE PA

	Diagnosis	TOD	Prognosis	Target BP
oBP	✓	✓	✓	✓
Unattended OB	✓	✓	✓	✓
Home BP	✓	✓	✓	?
ABPM	✓	✓	✓	?
Cuffless	?	?	?	?

EN CONCLUSIONS...

- PA est très variable
- Moyens de mesures «traditionnelles» ne tiennent pas forcément compte de toutes ces variations
- App-connectées à domicile peuvent aider mais ne remplacent pas l'ABPM 24h
- Conditions de mesure PA avec les cuffless vs méthode traditionnelle: pas du tout les mêmes
- Rôle complémentaire et non compétitif dans l'évaluation de l'hypertension
- Information obtenue peut être similaire mais aussi différente: apporte ainsi d'avantage d'information sur le profil tensionnel et le comportement du patient
- Remboursement ? Appareils standards par remboursés par assurance de base...



20^{ème} Journée Romande d'Hypertension

Jeudi, 30 octobre 2025

à partir de 12h30

CHUV

Hôpital des enfants

Auditoire ROUX – a confirmer

Rue du Bugnon 50
1011 Lausanne

Une formation de la



www.swisshypertension.ch

Une formation de la



Hypertension Research Foundation

THEMATIQUE: Les oubliés de l'hypertension

Organisation: Prof Grégoire Wuerzner (CHUV), Prof Georg Ehret (HUG), Prof Belén Ponte (HUG)

12h30-13h30 Apéritif de bienvenue

13h30-13h40 Introduction Prof G. Wuerzner

Partie 1: Chair Prof Georg Ehret

13h40-14h10 Conférence – «Utilisation intelligente des diurétiques en hypertension»
Prof Théodora Angoulvant, CHRU de Tours

14h10-14h20 Cas pratique
(le cas qui a changé ma pratique)
Prof Bernard Wasber, UNIL

14h20-14h50 Conférence – «Prise en charge de l'hypertension chez un patient d'origine africaine»
Prof Faïçal Jarraya, Université de Sfax

14h50-15h00 Cas clinique
(le cas qui a changé ma pratique)
Prof Antoinette Pechère, UNIGE

15h00-15h20 Quizz interactif sur la mesure ambulatoire de la pression artérielle
Intervenants multiples

15h20-15h50 Pause

Formation continue essentielle. 3,5 crédits SSN, 3,5 crédits SSC

Partie 2: Chair Prof Belén Ponte

15h50-16h10 Défis cliniques en ville:

- Dr Bullani, EHC, Morges
- Dre Zizimopoulou, cabinet médical, Genève

16h10-16h40 Les artères, l'organe oublié de l'hypertension artérielle
Prof Lucia Mazzolai, CHUV

16h40-16h50 Cas pratique
(le cas qui a changé ma pratique)
Prof Michel Burnier, UNIL

16h50-17h20 Les nouvelles 2025 en HTA
Prof Belén Ponte, Prof Georg Ehret,
Prof Grégoire Wuerzner

17h20-17h30 Synthèse de la Journée

17h30 Clôture

INSCRIPTION SUR PLACE / EN LIGNE

Merci d'envoyer votre inscription par e-mail : neh.secretariat@chuv.ch

Prénom :

Nom :

Adresse e-mail :

sur place

en ligne

SERVIER



AMGEN



AstraZeneca



CSL Vifor

