

Pacientul cu HTA & echipa de ingrijire in pandemie



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Agenda

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- Cazurile clinice

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- Clasificare HTN de pandemie

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- Diagnostic HTN de pandemie

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- Optiuni terapeutice de pandemie

5

- Evaluarea hipertensivului
- Particularitati la vaccinare



Trei hipertensiivi, aceeasi garda



F, 62 ani

- PR,
Leflunomide
- Cefalee,
tulburari de
vedere, vertij
- TA 240/140
mmhg



M, 55 ani

- HTN, 5 ani
- Neglijat
terapeutic de 3
saptamani
- Dispnee la efort
mic de 3 zile
- TA 210/120
mmHg



F, 97 ani

- Cardiostimulare
permanenta
BAV III
- Dispnee efort
progresiv mai
mic
- TA 195/100
mmHg

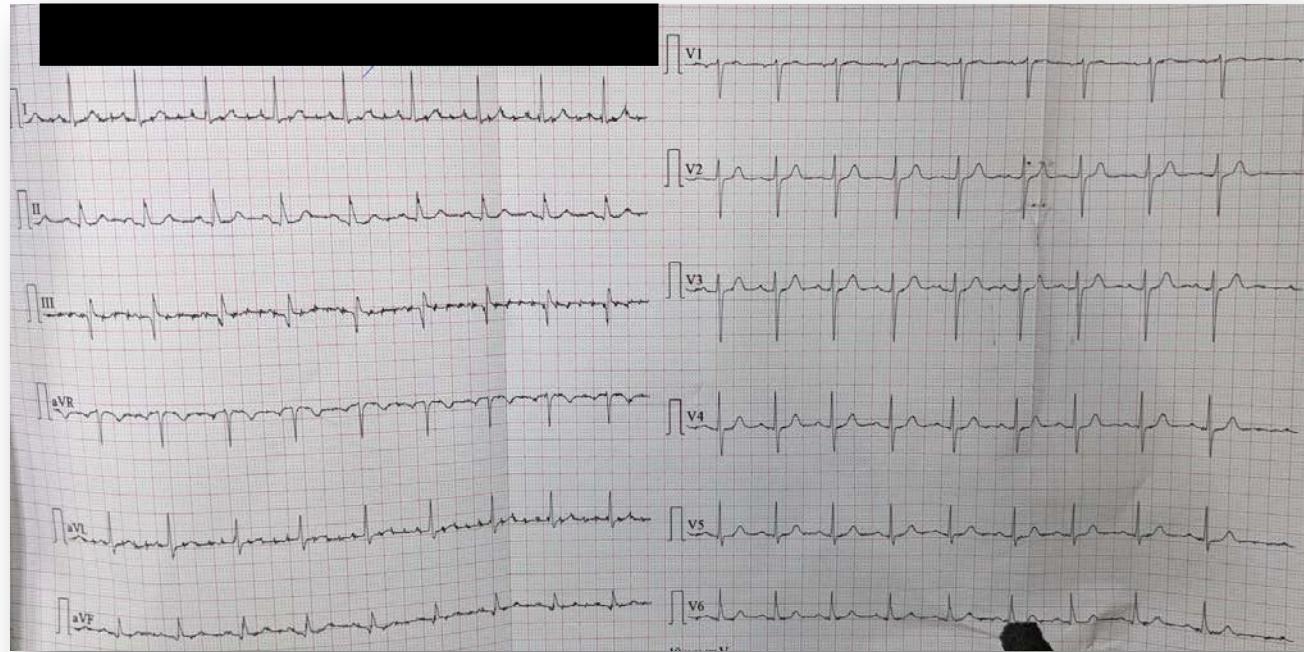


F, 61 ani, TA 240/140 mmHg

Psoriazis, PR, Leflunomide 200 mg/zi, 2 ani
Cefalee, tulburari de vedere, vertij

Eco cord – VS nedilatat, nehipertrofiat;
fara valvulopatii sau alte elemente
patologice notabile

CT cerebral – fara leziuni



Enalapril iv

Furosemid iv

Urapidil iv bolus

TA 120/80 mmHg

Confuzie, varsaturi

Internare
Accident ischemic tranzitor



M, 55 ani, TA 210/120 mmHg

HTN 5 ani, fara regim hiposodat

Obez, fumator

De 3 saptamani neglijat terapeutic

Eco cord – VS nedilatat, hypertrofie concentrica usoara; fara valvulopatii sau alte elemente patologice notabile

SpO₂ 92-94%; fara raluri pulmonare
Rx pulmonar – fara leziuni



Enalapril iv

Furosemid iv

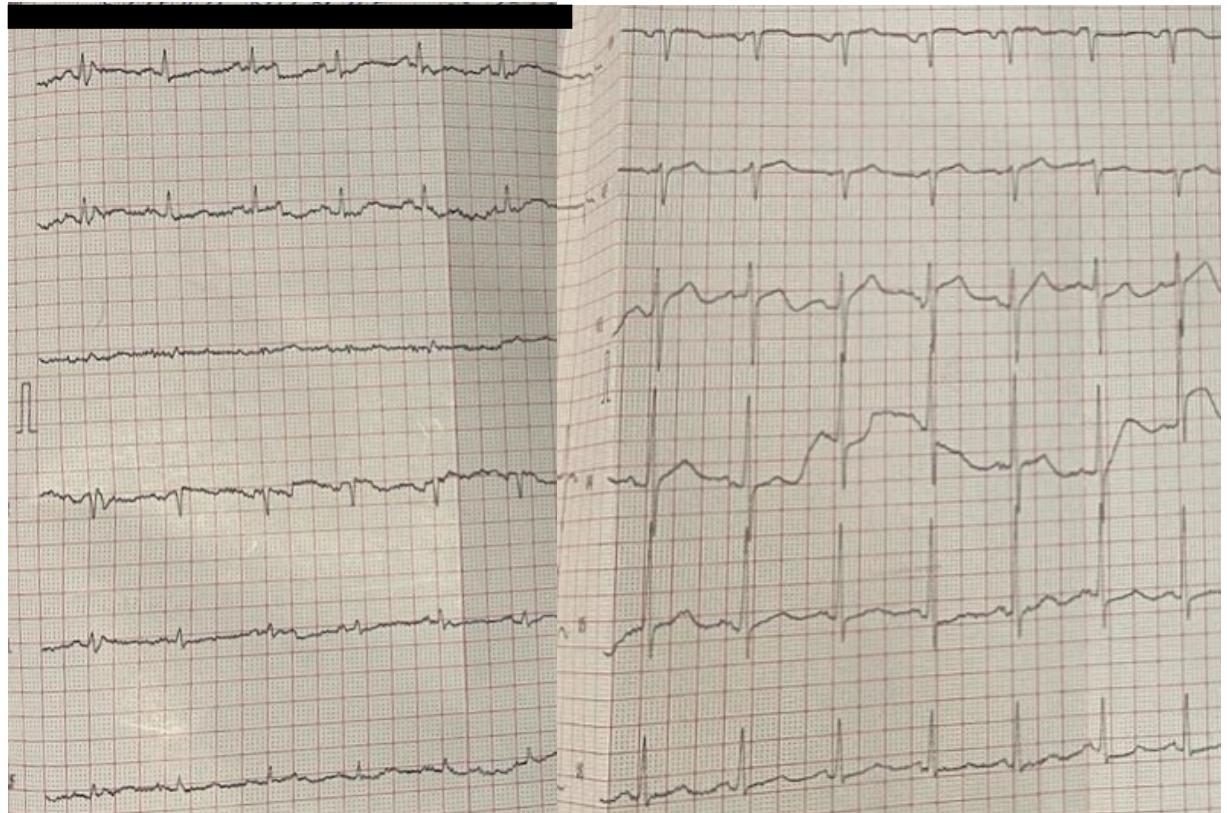


TA 175/95 mmHg



Ameliorare dispnee

La domiciliu – reluarea Tx



F, 97 ani, TA 195/100 mmHg

CS permanenta BAV III

HTN > 10 ani, Telmisartan 80 mg/zi

De 1 luna dispnee progresiva efort tot mai mic -> dispnee de decubit

Eco cord – VS nedilatat, hipertrofie concentrica usoara, FEVS 40%; stenoza aortica moderata; atrii sever dilatate

SpO₂ 88%;

Raluri subcrepitante basal bilateral

Rx pulmonar – edem pulmonar



Digoxin iv

Furosemid iv



TA 170/85 mmHg



Stationar

Internare
Insuficienta ventriculara stanga tahiaritmica



Clasificarea HTN “de pandemie”

La domiciliu



Cand situatia clinica permite evaluarea la distanta, rol **Telemedicina**



La cabinet



Cand pacientul se poate deplasa – **“ambulator”**

La garda



Urgentele hipertensive **cu risc vital**

Societatea Romana de Cardiologie

PROGRAMUL DE AUTO-DIAGNOSTIC AL HIPERTENSIUNII ARTERIALE

 Grupul de lucru de
Hipertensiune Arterială

www.tensiuneamea.ro



Dg HTN “de pandemie”

Regulile de masurare
& tensiometre validate

Primul pas pentru a afla daca esti hipertensiv!

Primul pas! Măsură-ți singuri tensiunea arterială, urmând indicațiile din filmul alăturat sau din textul de la rubrica "Reguli de masurare". Faceți 3 măsurători la interval de 1-3 minute și introduceți rezultatele lor în tabelul de mai jos. Rezultatul va fi calculat automat.



Descarca [aici](#) regulile de masurare sau mergi la pagina [Reguli de masurare](#)

Tot ce ai nevoie este un tensiometru electronic validat clinic pe care îl poți procura de la orice farmacie. Lista tensiometrelor validate o găsești [AICI](#)

Exemplu

Tensiunea arterială (mmHg)	
138	86
128	76
132	80

Tensiunea arterială (mmHg)	
TA sistolica 1	TA diastolica 1
TA sistolica 2	TA diastolica 2
TA sistolica 3	TA diastolica 3

[Calculeaza](#)



		Prima masuratoare		A doua masuratoare	
Ziua		Tensiunea sistolica(mmHg)	Tensiunea diastolica(mmHg)	Tensiunea sistolica(mmHg)	Tensiunea diastolica(mmHg)
1	Dimineata				
	Seara				
2	Dimineata				
	Seara				
3	Dimineata				
	Seara				
4	Dimineata				
	Seara				
5	Dimineata				
	Seara				
6	Dimineata				
	Seara				
7	Dimineata				
	Seara				

Salveaza datele introduse

Conform recomandarilor europene
si internationale de practica
medicala

Categorie	Sistolica	Diastolica	
Cabinet (Office)	≥140	si	≥90
Ambulatoriu			
Diurn/awake	≥135	si/sau	≥85
Nocturn/asleep	≥120	si/sau	≥70
24h	≥130	si/sau	≥80
La domiciliu (Home)	≥135	si/sau	≥85

Realitatea urgentelor hipertensive

Hypertensive urgency

Urgenta hipertensiva fara risc vital

TAs > 180 mmHg sau TAd > 120 mmHg

Fara afectare acuta de organ tinta

Rareori usor simptomatica (cefalee, vertij)

Hypertensive emergency

Urgenta hipertensiva cu risc vital

TAs > 180 mmHg sau TAd > 120 mmHg

Cu afectare acuta de organ tinta

Asociaza simptomatologia afectarii organului tinta

Encefalopatia hipertensiva

Hemoragia cerebrala

AVC ischemic

Insuficienta renala acuta

Pre-eclampsia / Eclampsia

Status hiperadrenergic

Sindrom coronarian acut

Edem pulmonar acut cardiogen

Disectia acuta de aorta



Realitatea urgentelor hipertensive

- Previn evenimentele CV majore
- Ramificatiile legale...

Fara risc vital



- Salvez viata
- Ameliorez prognosticul

Cu risc vital



In ore...zile
Tratament oral

Urgency –
fara risc vital

SCOP
control termen lung

In minute...ore
Tratament iv

Emergency –
cu risc vital

SCOP
salvarea vietii



Hipertensiunea, mai practic

HTA nou
diagnosticata

HTA
necontrolata

HTA
rezistenta

2 antiHTA
doze mici-
moderate
IEC/BCC

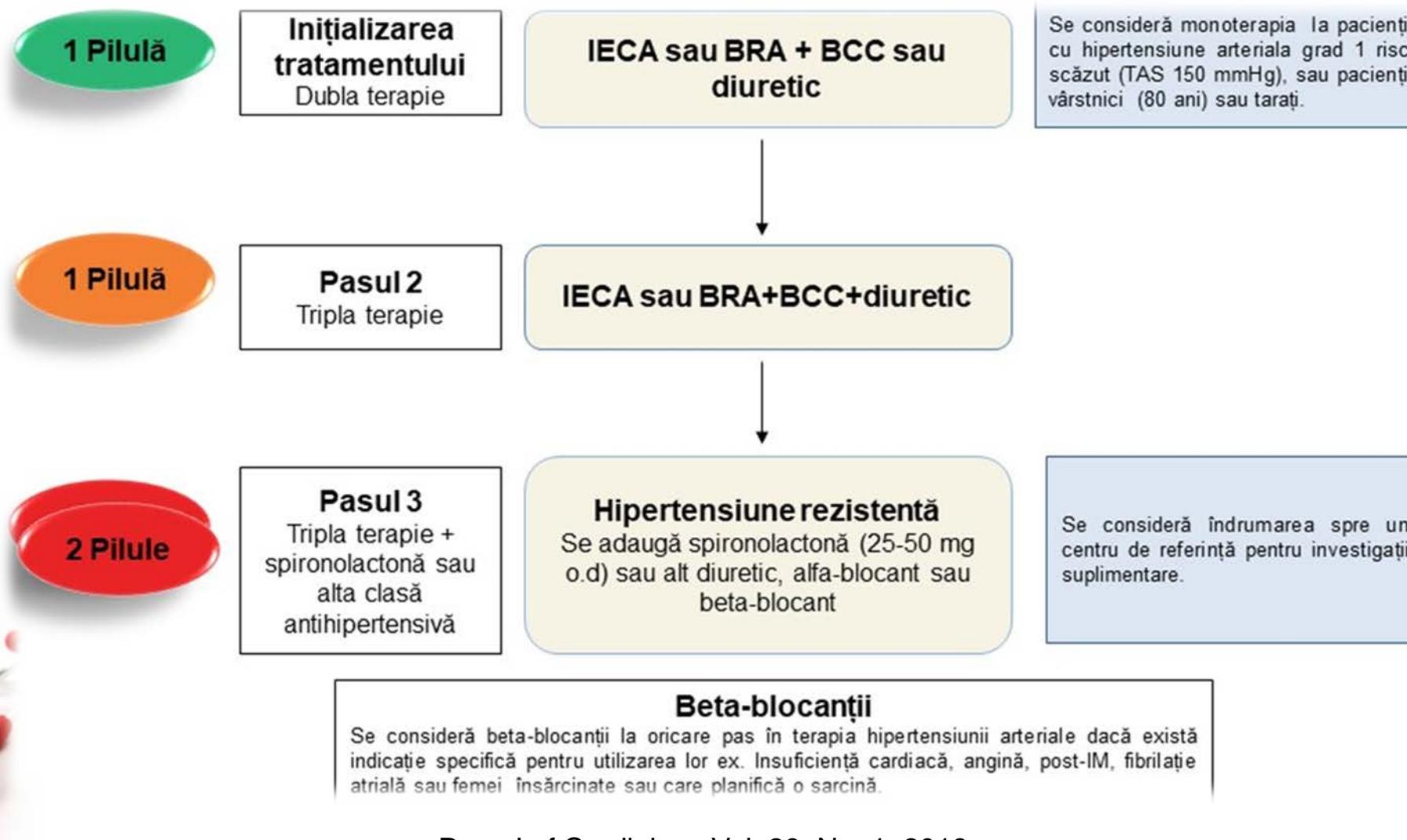
Cresterea dozelor
Adaugarea unei
noi clase (diuretic)
Utilizare
combinatii

Pseudo-rezistenta
Spironolactona



Quintesenta farmacoterapiei in Ghidul HTA ESC/ESH 2018

Algoritmul este potrivit pentru majoritatea pacientilor cu AOTMH, boala cerebrovasculara, diabet, boala arterial periferica



Adaptare de pandemie

Blocantele canalelor de calciu

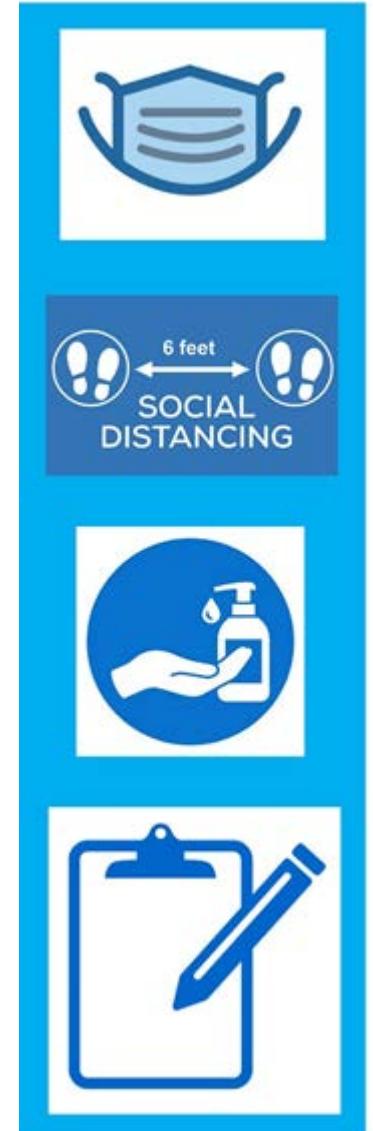
Optiunea “safe”, neutra metabolic & electroliti

**IEC/BRA
spironolactona**

Creatinina, Na, K – inainte & la 1-2 saptamani

Betablocant

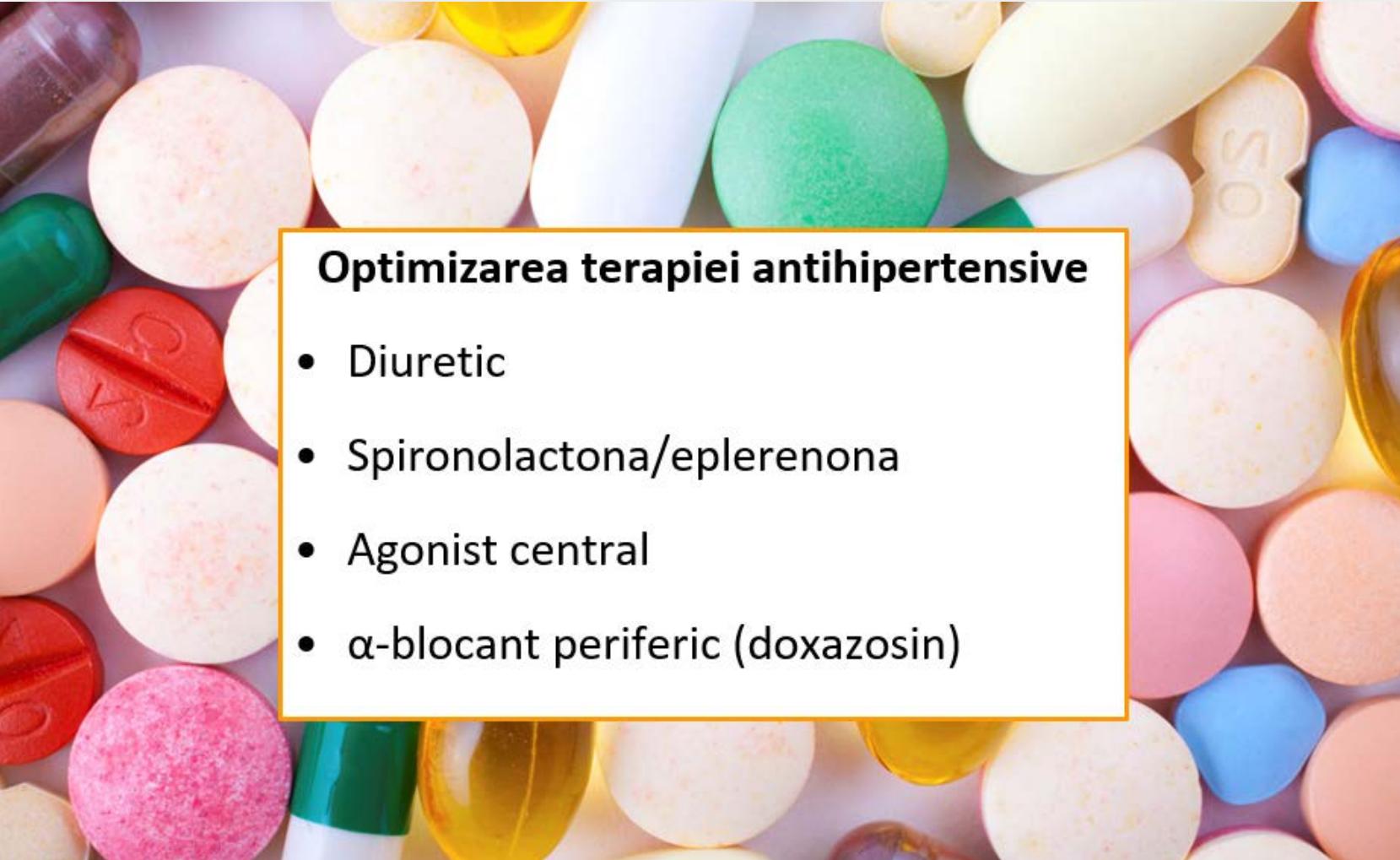
ECG – inainte & 1-2 saptamani
Urmarire AV



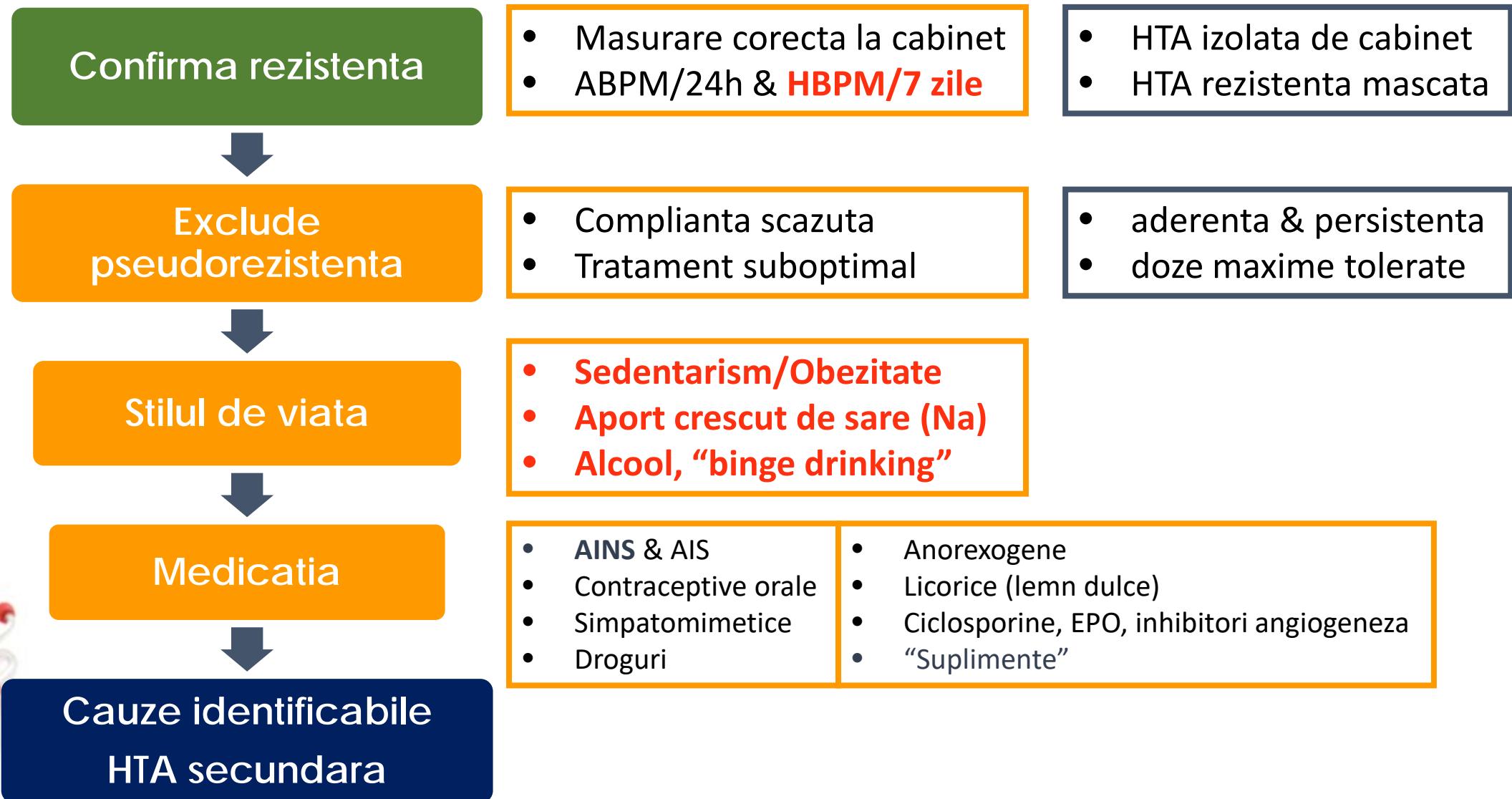
HTN necontrolata

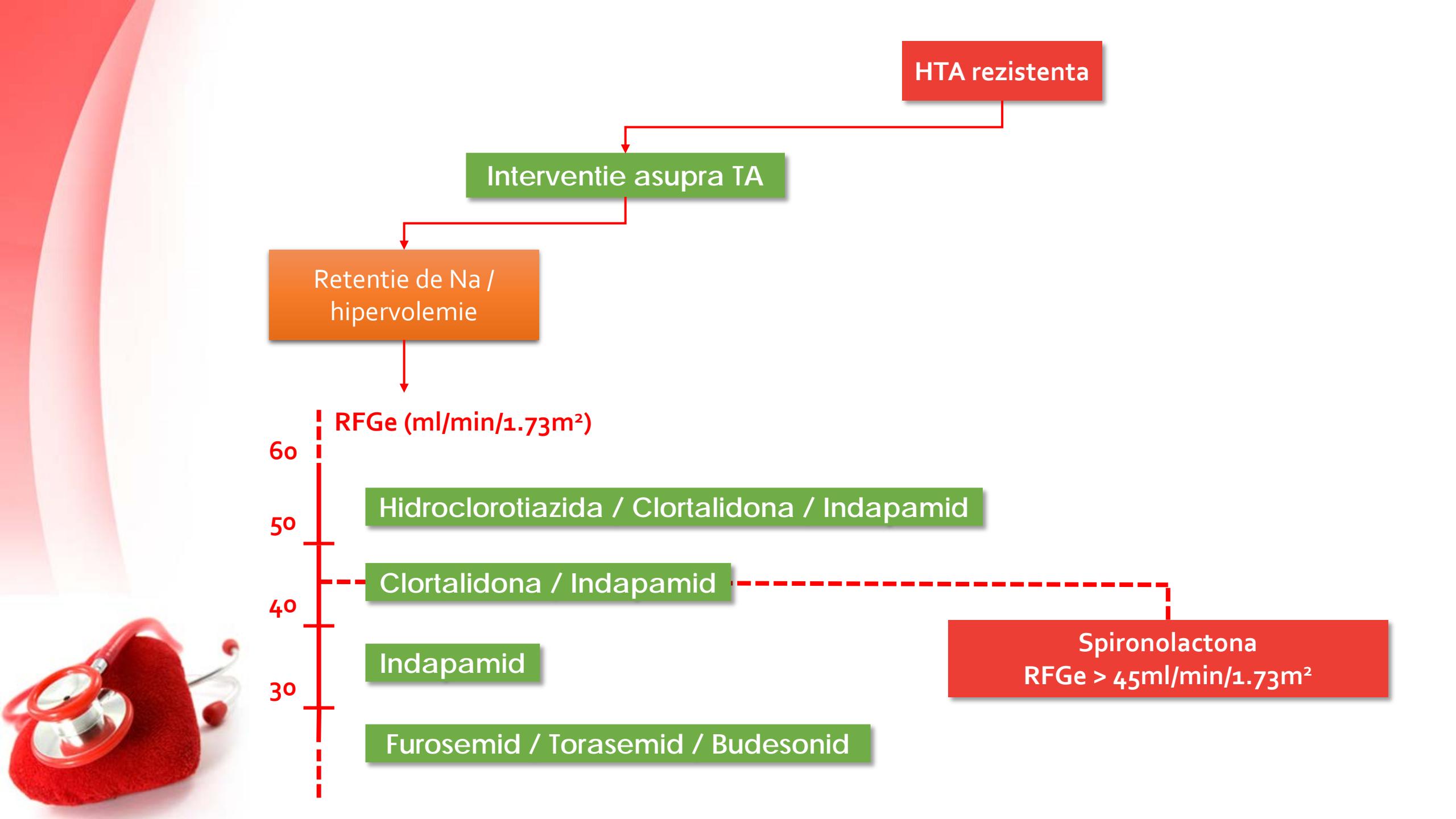
Optimizarea terapiei antihipertensive

- Diuretic
- Spironolactona/eplerenona
- Agonist central
- α -blocant periferic (doxazosin)



HTN rezistenta





HTA rezistenta

Interventie asupra TA

Retentie de Na /
hipervolemie

RFGe (ml/min/1.73m²)

60

50

40

30

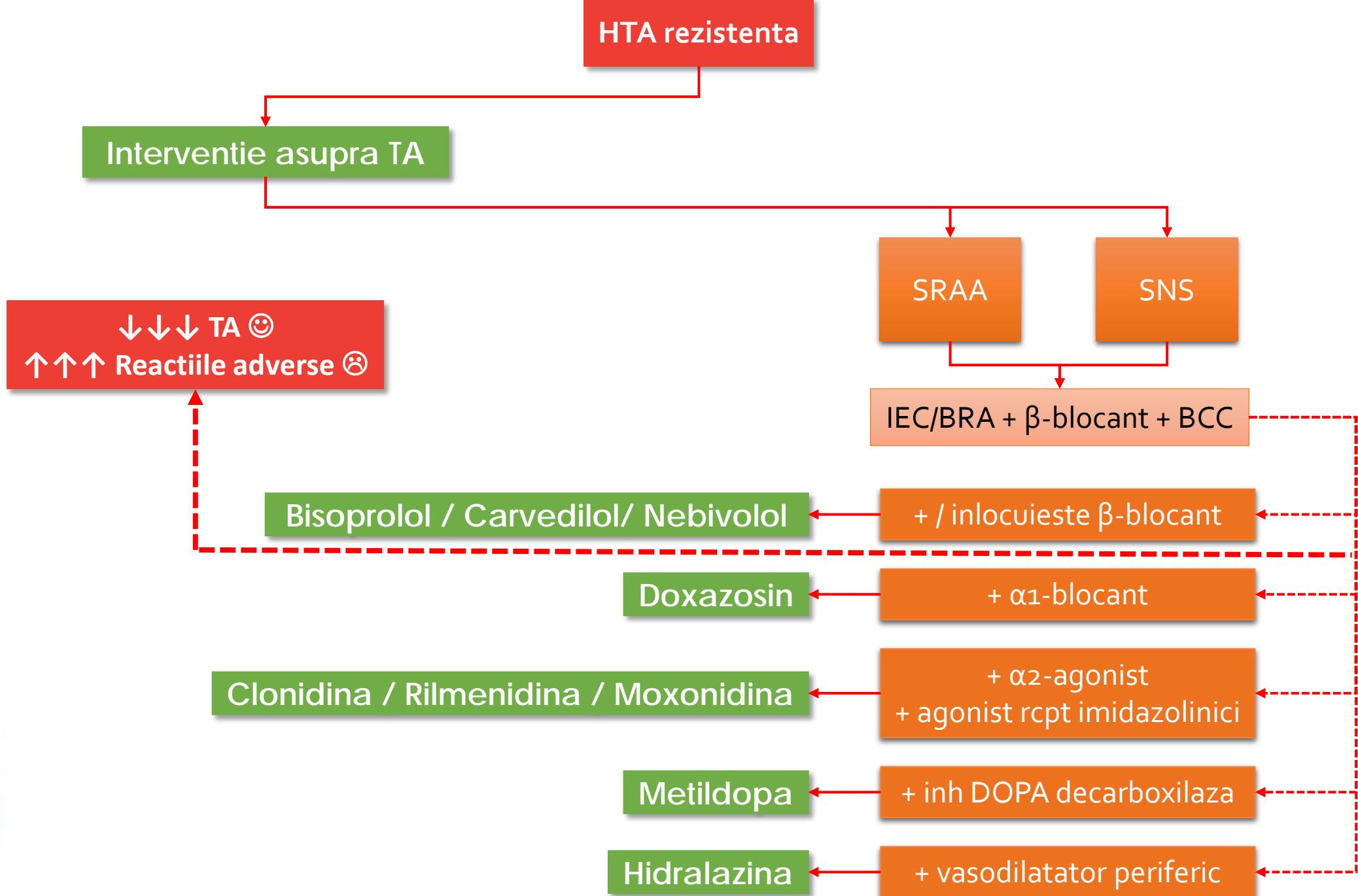
Hidroclorotiazida / Clortalidona / Indapamid

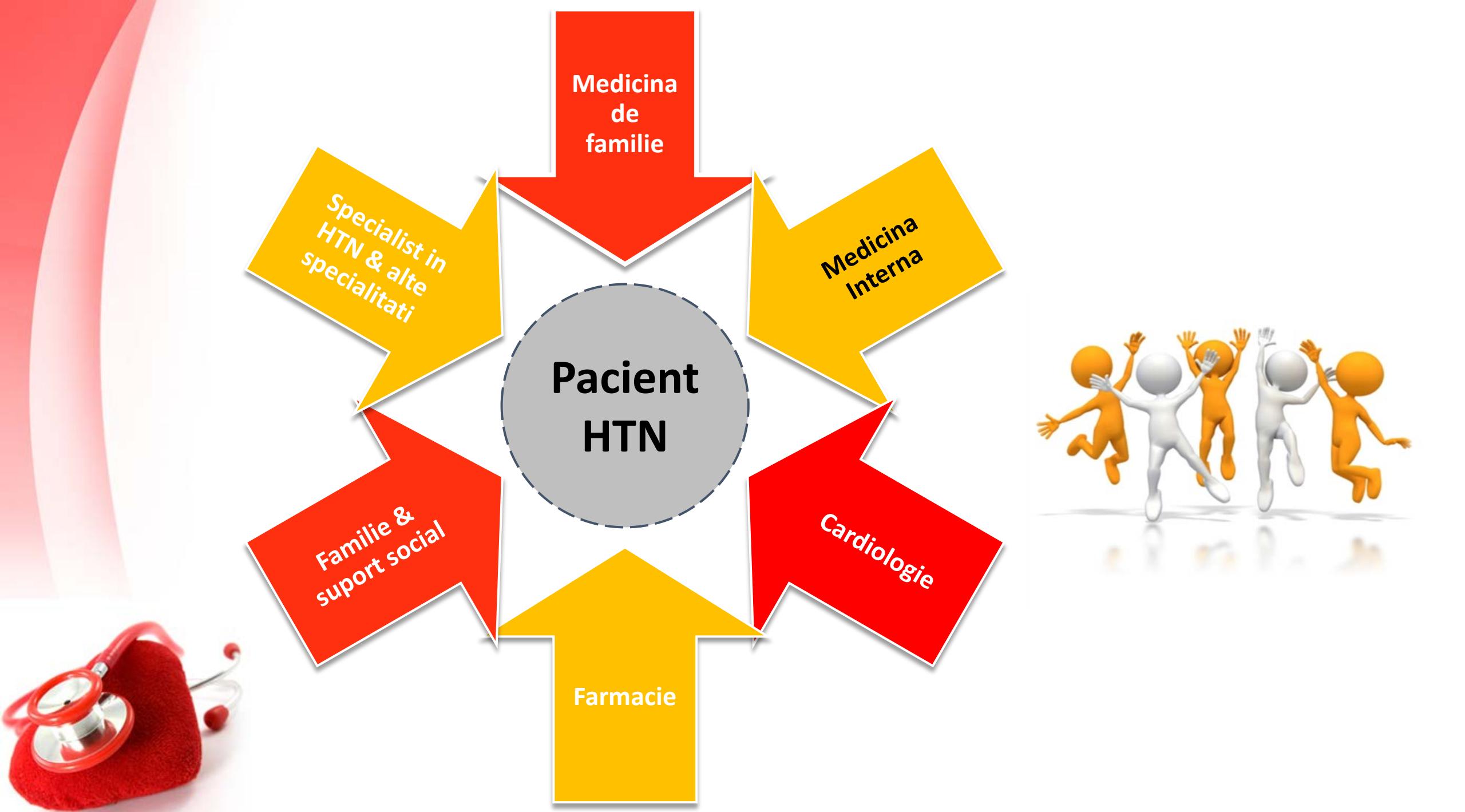
Clortalidona / Indapamid

Indapamid

Furosemid / Torasemid / Budesonid

Spironolactona
RFGe > 45ml/min/1.73m²





Guidance

COVID-19: the green book, chapter 14a

Coronavirus (COVID-19) vaccination information for public health professionals.

From:

[Public Health England](#)

Published:

27 November 2020

Last updated:

12 February 2021, [see all updates](#)

Documents



[COVID-19: the green book, chapter 14a](#)

Ref: PHE gateway number 2020300

PDF, 434KB, 24 pages

This file may not be suitable for users of assistive technology.

► [Request an accessible format.](#)

Details

This chapter includes information on:

- the coronavirus (COVID-19) vaccines
- the dosage and schedule for the UK
- recommendations for the use of the vaccine

Individuals on stable anticoagulation therapy, including individuals on warfarin who are up-to-date with their scheduled INR testing and whose latest INR is below the upper level of the therapeutic range, can receive intramuscular vaccination. A fine needle (23 or 25 gauge) should be used for the vaccination, followed by firm pressure applied to the site without rubbing for at least 2 minutes (ACIP 2019).

The patient or family should be given information on the risk for hematoma from the injection. Patients receiving anticoagulation therapy presumably have the same bleeding risk as patients with clotting factor disorders and should follow the same guidelines for intramuscular administration. If possible, vaccination could be scheduled prior to the use of these medications, so that the patients' risk of bleeding is not increased by their therapeutic action.





*Avem impresia că
că viețile noastre
sunt puse
“în așteptare”
în timpul
pandemiei -
este însă periculos
să credem că
putem putem
spune stop inimii!*

**Inima nu
așteaptă!**



INIMA NU AȘTEAPTĂ!

Sănătatea inimii tale este esențială, chiar și în timpul pandemiei. Nu neglijă niciodată simptomele dacă știi că ai o problemă cardiacă. Dacă crezi că ai simptomele unui infarct, cere ajutor medical de urgență, sună imediat la 112!

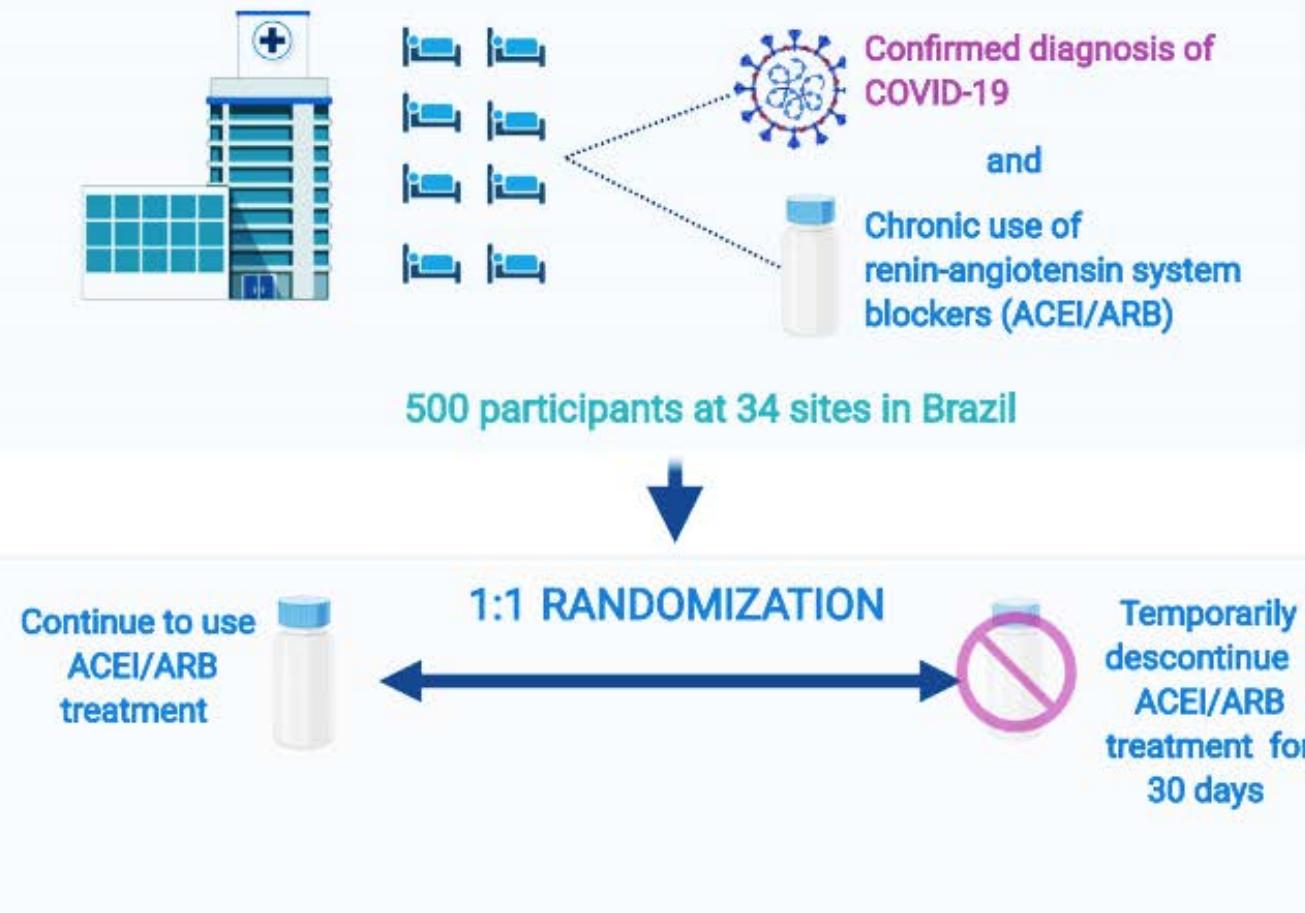


DESIGN OF BRACE CORONA TRIAL

Continuing versus Suspending angiotensin-converting enzyme inhibitors and angiotensin receptor blockers and its impact on adverse outcomes in hospitalized patients with coronavirus infection (SARS-CoV2)

STUDY POPULATION

National registry on suspected and confirmed cases of COVID-19



PRIMARY OUTCOME



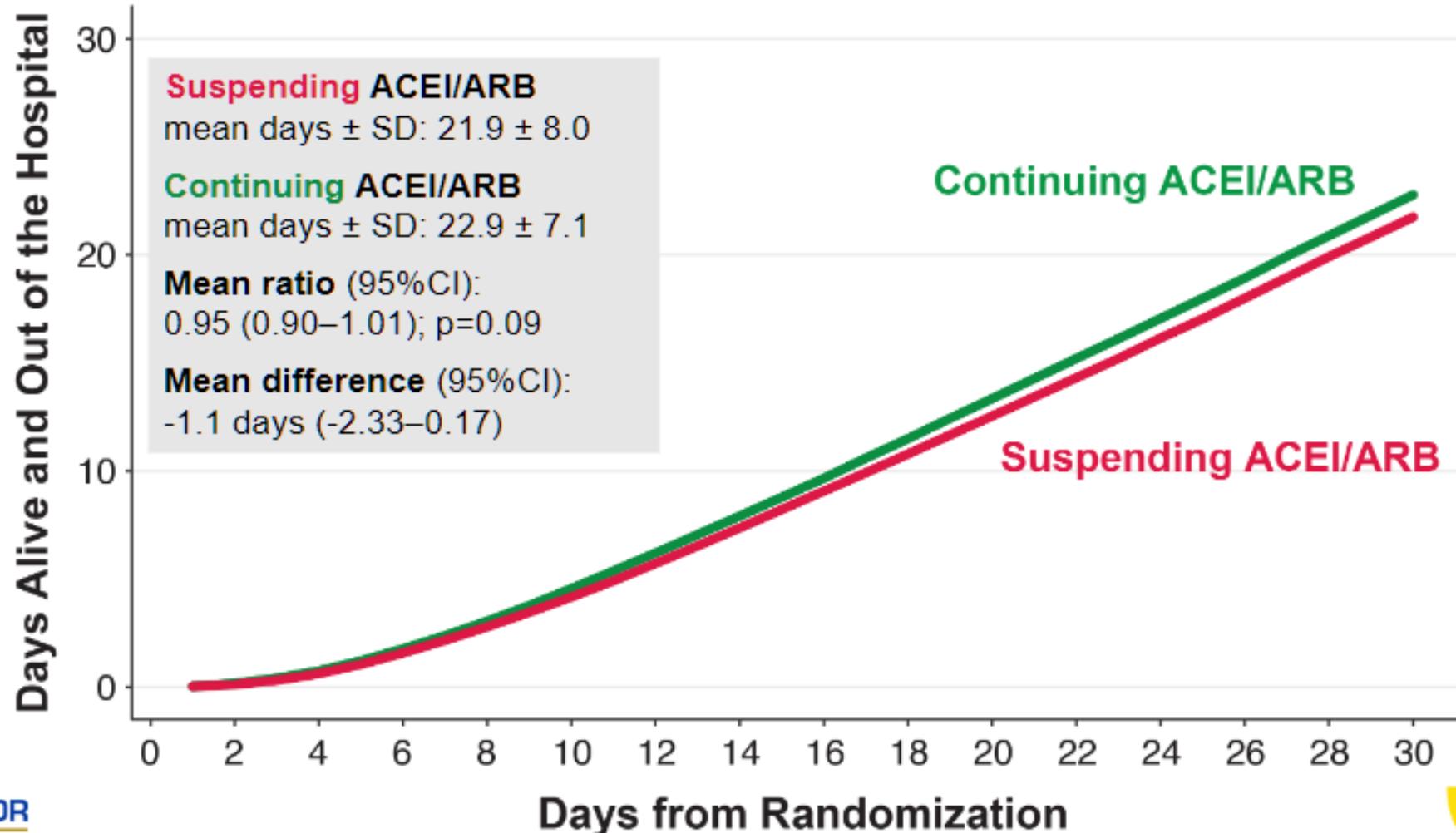
Median days alive and out of the hospital at 30-days

SECONDARY OUTCOMES

Progression of COVID-19 disease
All cause mortality
Cardiovascular death
Acute myocardial infarction
New or worsening heart failure
Stroke, transient ischemic attack
Myocarditis, pericarditis
Arrhythmias that need treatment
Thromboembolic phenomena
Respiratory failure, renal failure
Hemodynamic decompensation
Sepsis, hypertensive crisis
Level of troponin, NT-ProBNP, BNP, and D-dimer



Primary Outcome: Days Alive and Out of Hospital at 30 Days



Renin–Angiotensin–Aldosterone System Blockers and the Risk of Covid-19

Giuseppe Mancia, M.D., Federico Rea, Ph.D., Monica Ludergnani, M.Sc.,
Giovanni Apolone, M.D., and Giovanni Corrao, Ph.D.

Table 4. Adjusted Odds Ratios for Covid-19 Associated with Use of RAAS Blockers and Other Antihypertensive Drugs.

Variable	Odds Ratio for Covid-19 (95% CI)*				
	ACE Inhibitors	ARBs	Calcium-Channel Blockers	Diuretics	Beta-Blockers
Severity of clinical manifestations					
Mild to moderate	0.98 (0.89–1.07)				
Critical or fatal	1.07 (0.84–1.37)				
Sex‡					
Female					1.04 (0.91–1.20)
Male	0.98 (0.87–1.11)	0.98 (0.86–1.11)	1.00 (0.90–1.11)	1.02 (0.91–1.15)	0.97 (0.87–1.08)
Age at diagnosis§					
<60 Yr	0.94 (0.71–1.25)	0.89 (0.67–1.18)	1.13 (0.88–1.46)	0.99 (0.75–1.31)	1.00 (0.78–1.29)
≥60 Yr	0.97 (0.87–1.08)	0.95 (0.85–1.06)	1.01 (0.93–1.11)	1.07 (0.97–1.19)	0.99 (0.90–1.08)

The present study does not provide evidence that the use of ACE inhibitors or ARBs is independently associated with the risk of Covid-19.