## Modified Kaiser Hypertension Algorithm: RAAS-Diuretic Combination Start

## Reviewed March 2025

- Widely acceptable and effective algorithm using inexpensive combination therapy
- Nearly all guidelines recommend calcium channel blockers, renin–angiotensin system inhibitors (RASI) such as angiotensin-converting-enzyme inhibitors (ACEi) or angiotensin receptor blockers (ARB), and thiazide (THZ) as initial agents prescribed for blood pressure (BP) control
- Doses of hydrochlorothiazide (HCTZ) shown to reduce BP and cardiovascular outcomes in clinical trials is 25-50 mg day, and not 12.5-25 mg/day commonly used in primary care settings
- Fixed-dose combinations may lead to under-dosing of HCTZ - failure to intensify dose
- In addition, BP control gap between African American and non-African American people with hypertension is reduced but not eliminated with use of this algorithm

The Ohio Cardiovascular & Diabetes Health Collaborative is funded by the Ohio Department of Medicaid and administered by the Ohio Colleges of Medicine Government Resource Center. The views expressed in this document are solely those of the authors and do not represent the views of the state of Ohio or federal Medicaid programs.

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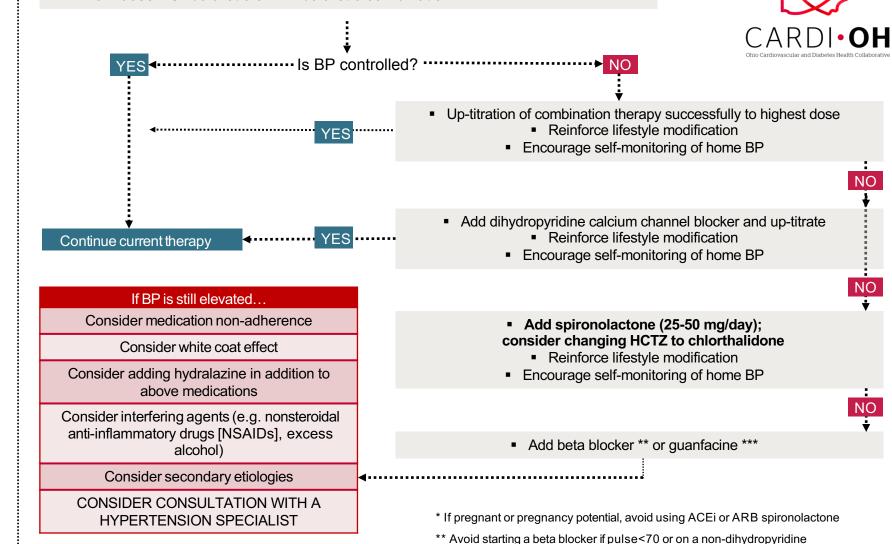
## Set BP goal and initiate therapy with:

Jaffe MG, Lee GA, Young JD, Sidney S, Go AS. Improved Blood Pressure

Control Associated With a Large-Scale Hypertension Program. JAMA.

2013:310(7):699-705.

- 1. Lifestyle modification
- Low-dose ACEi/diuretic or ARB/diuretic combination\*



calcium channel blocker

instead of 3 times per day

\*\*\* Guanfacine has similar mechanism of action as clonidine and is once daily