## Bangladesh

# Hypertension Management Protocol for Primary Health Care Setting\*



### Measure blood pressure of **all adults** $\geq$ 18 years\*\*

If SBP is 140-159 mmHg or DBP 90-99 mmHg <sup>a</sup> → Advice for lifestyle modification Review BP after 2 weeks. If SBP is still 140-159 mmHg or DBP 90-99 mmHg, **start drug treatment as below.**\*\*\*



## Start amlodipine 5 mg <sup>b</sup> once daily.

Step 2

Review after 1 month. If treatment target not met, <sup>c</sup> amlodipine 5 mg + losartan <sup>d</sup> 50 mg once daily.



Review after 1 month. If treatment target not met, <sup>c</sup>

amlodipine 5 mg + losartan <sup>d</sup> 50 mg + hydrochlorothiazide 12.5 mg once daily <sup>e</sup>.



Review after 1 month. If treatment target not met, <sup>o</sup> **refer to a specialist.** 

- For patients with SBP ≥160 mmHg or DBP ≥ 100 mmHg, start immediate treatment at step 2 (amlodipine 5 mg + losartan 50 mg).
- b. Consider amlodipine 2.5 mg as a starting dose for the elderly or patients with low body weight.
- c. Check that the patient has been taking drugs regularly and correctly.
- d. Before initiating and several weeks after starting losartan, check serum creatinine and serum potassium. Avoid losartan for women of childbearing age who may become pregnant.
- Consider the option of increasing losartan to 100 mg before proceeding to step 3, and continuing the dose of losartan 100 mg for step 3.
- \* Adapted from National Protocol for Management of Diabetes and Hypertension, NCDC programme, DGHS MOHFW 2018-19.
- \*\* For patients aged ≥ 40 years, decision to treat high blood pressure may be taken based on total cardiovascular disease (CVD) risk estimation.
- \*\*\* This protocol should not be used for pregnant patients. If patient is pregnant, refer to a specialist.



Treatment Target Based on Levels of Blood Pressure

Most Patients	≤140/90 mmHg
Having Comorbidity (diabetes, ischemic heart disease, stroke, chronic kidney disease)	≤130/80 mmHg
High CVD Risk > 30% (as per CVD risk prediction chart)	≤130/80 mmHg

#### For Women of Childbearing Age Who May Become Pregnant

- **Step 1:** Start amlodipine 5 mg <sup>b</sup> once daily.
- **Step 2:** Review after 1 month. If treatment target not met, <sup>c</sup> amlodipine 10 mg once daily.
- **Step 3:** Review after 1 month. If treatment target not met, <sup>c</sup> refer to specialist.



DO NOT PRESCRIBE losartan or any ACE inhibitor or ARB to women who may become pregnant.

#### Advice for lifestyle modification







Avoid alcohol and Exercise tobacco, including 2.5 hr/week secondhand smoke

If overweight, lose weight.

Eat at least 5 servings of vegetables/fruit per day.

Use healthy oils, such as sesame (til), olive, safflower, sunflower.

Eat nuts, peas, whole grains and foods rich in potassium like spinach, watermelon, yogurt and banana. Eat a low salt diet Eat a heart-(under 1 tsp/day) healthy diet

Limit red meat to once or twice per week at most.

Eat fish or other food rich in omega 3 fatty acids at least twice per week.

Avoid added sugar from cakes, cookies, sweets, fizzy drinks.

