Madhya Pradesh

Hypertension Protocol



Measure blood pressure of **all adults** over 18 years

High BP: **SBP ≥ 140** or **DBP ≥ 90** mmHg



If BP is high:*

Prescribe Amlodipine 5mg



After 30 days, measure BP again. If still high: Increase to Amlodipine 10mg

Pregnant women and women who may become pregnant

- ▲ DO NOT give Telmisartan or Chlorthalidone.
- Statins, ACE inhibitors, angiotensin receptor blockers (ARBs), and thiazide/thiazide-like diuretics should not be given to pregnant women or to women of childbearing age not on effective contraception.
- Calcium channel blocker (CCB) can be used. If not controlled with intensification dose, refer to a specialist.



After 30 days, measure BP again. If still high: Add Telmisartan 40mg



After 30 days, measure BP again. If still high: Increase to Telmisartan 80mg**



After 30 days, measure BP again. If still high: Add Chlorthalidone 12.5mg***



After 30 days, measure BP again. If still high: Increase to Chlorthalidone 25mg***



After 30 days, measure BP again. If still high:

Check if the patient has been taking medications regularly and correctly. If yes,

Diabetic patients

- Treat diabetes according to protocol.
- Aim for a BP target of < 140/90 mmHg.

Heart attack in last 3 years

- Add beta blocker to Amlodipine with initial treatment.

Heart attack or stroke, ever

- Begin low-dose aspirin (75mg) and statin.

People with high CVD risk

- Consider aspirin and statin.

Chronic kidney disease

- ACEI or ARB preferred if close clinical and biochemical monitoring is possible.
- If SBP ≥ 180 or DBP ≥ 110, refer patient to a specialist after starting treatment.

If SBP 160-179 or DBP 100-109, start treatment on the same day.

If SBP 140-159 or DBP 90-99, check on a different day and if still elevated, start treatment.

- ** Get estimations done for Blood Sugar, Urea, Creatinine, and Urine Protein before increasing Telmisartan dose. If any value is abnormal refer to a specialist. If the patient cannot consult a specialist, withdraw Telmisartan and add Chlorthalidone.
- ******* Hydrochlorothiazide can be used if Chlorthalidone is not available (25 mg starting dose, 50 mg intensification dose).

refer to a specialist.

Lifestyle advice for all patients









Avoid tobacco and alcohol ExerciseReduce weight,2.5 hours/weekif overweight

Reduce salt, under 1 tsp/day Eat less fried foods

- Eat 5 servings of fruits and vegetables per day.
- Avoid papads, chips, chutneys, dips, and pickles.
- Use healthy oils like sunflower, mustard, or groundnut.
- Limit consumption of foods containing high amounts of saturated fats.
- Reduce fat intake by changing how you cook:
 - Remove the fatty part of meat
 - Use vegetable oil
 - Boil, steam, or bake instead of fry
 - Limit reuse of oil for frying
- Avoid processed foods containing trans fats.
- Avoid added sugar.

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