Amlodipine – Product Information & Guidance

1. Brand & Formulation

- **Product Name:** Amlodipine
- **Presentation:** Oral tablets (commonly available in 2.5 mg, 5 mg, and 10 mg strengths)
- Category: Antihypertensive (Calcium Channel Blocker Dihydropyridine class)

2. Composition

- **Active Ingredient:** Amlodipine besylate (equivalent to 2.5 mg, 5 mg, or 10 mg of amlodipine).
- **Excipients:** May include microcrystalline cellulose, dibasic calcium phosphate, sodium starch glycolate, and magnesium stearate (varies by manufacturer).

3. Mechanism of Action (MOA)

- **Key Component:** Amlodipine
- Amlodipine inhibits the influx of calcium ions into vascular smooth muscle and cardiac muscle cells.
- This leads to **vasodilation** of both peripheral and coronary arteries.
- In hypertension: Reduces peripheral vascular resistance, lowering blood pressure.
- In angina:
 - o Dilates coronary arteries → improves oxygen supply to myocardium.
 - o Reduces afterload → lowers myocardial oxygen demand.

4. Rationale & Positioning

For Healthcare Professionals (HCPs) & Patients:

- Proven efficacy in hypertension and angina (stable & variant/Prinzmetal's angina).
- Once-daily dosing → ensures better compliance and long-lasting BP control.
- Provides **cardiovascular protection**, including stroke and myocardial infarction risk reduction (when part of antihypertensive regimen).
- Well tolerated in most patients, including elderly populations.

5. Usage Guidance

For HCPs to Communicate:

• Indications:

- o Hypertension (first-line or in combination therapy).
- o Coronary artery disease (chronic stable angina, vasospastic/variant angina).

• Prescribing Tips:

- o Typical starting dose: **5 mg once daily** (2.5 mg in elderly or frail patients).
- o Maximum dose: 10 mg once daily.
- o Not for **acute relief** of chest pain (not a rescue drug).
- o Can be combined with **ACE inhibitors**, **ARBs**, **diuretics**, **or beta-blockers** when needed.

Monitoring:

- o Blood pressure and heart rate regularly.
- o Assess for ankle edema, palpitations, or dizziness.
- o Liver function monitoring in patients with hepatic impairment.

6. Patient Counselling Points

• How to Take:

- o Once daily, at the same time every day.
- o Can be taken with or without food.

Most Common Side Effects:

- Headache, flushing, dizziness, palpitations, fatigue, ankle swelling, abdominal discomfort, muscle cramps.
- o **Advice:** Do not stop the medicine suddenly; report persistent swelling or severe dizziness.

• Serious/Rare Side Effects:

- Hypotension, worsening chest pain (rare), allergic reaction (rash, swelling of face/tongue).
- o Seek immediate medical help if severe or unusual symptoms occur.

• Precautions & Special Populations:

- Use with caution in **liver impairment**, elderly patients, and those with heart failure.
- o Inform doctor if **pregnant or breastfeeding**.
- Avoid abrupt discontinuation.
- o Caution when driving or operating machinery until drug effects are known.

• Drug Interactions:

- May interact with CYP3A4 inhibitors/inducers (e.g., ketoconazole, rifampicin, clarithromycin).
- o Alcohol may enhance dizziness or hypotension.

• Lifestyle Advice:

o Follow a low-salt diet, regular exercise, weight management, avoid smoking and excessive alcohol to improve treatment outcomes.

7. Call to Action / Closing

• For Patients:

- o Always take Amlodipine as prescribed.
- o Do not stop medication without consulting your doctor.
- o Report persistent swelling, dizziness, or chest discomfort immediately.
- o Regularly check your blood pressure at home, if advised.

• For HCPs:

- o Reinforce medication adherence and lifestyle modification.
- o Educate patients on expected benefits and side effects.
- o Regularly monitor response and adjust dose as necessary.