

SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES



*Affiliated To The Tamil Nadu Dr. MGR Medical University, Chennai
Approved by Pharmacy Council of India, New Delhi.*

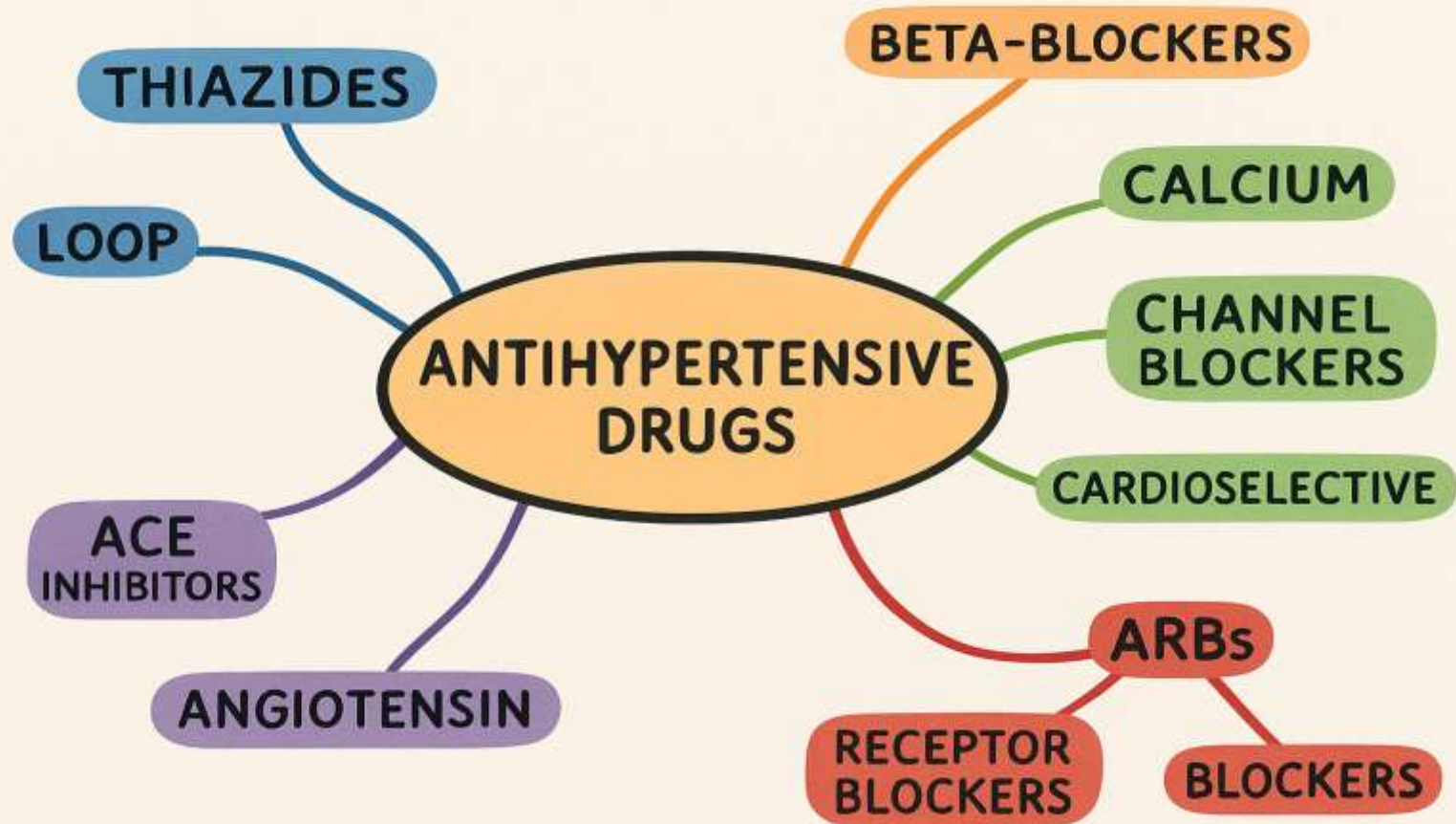
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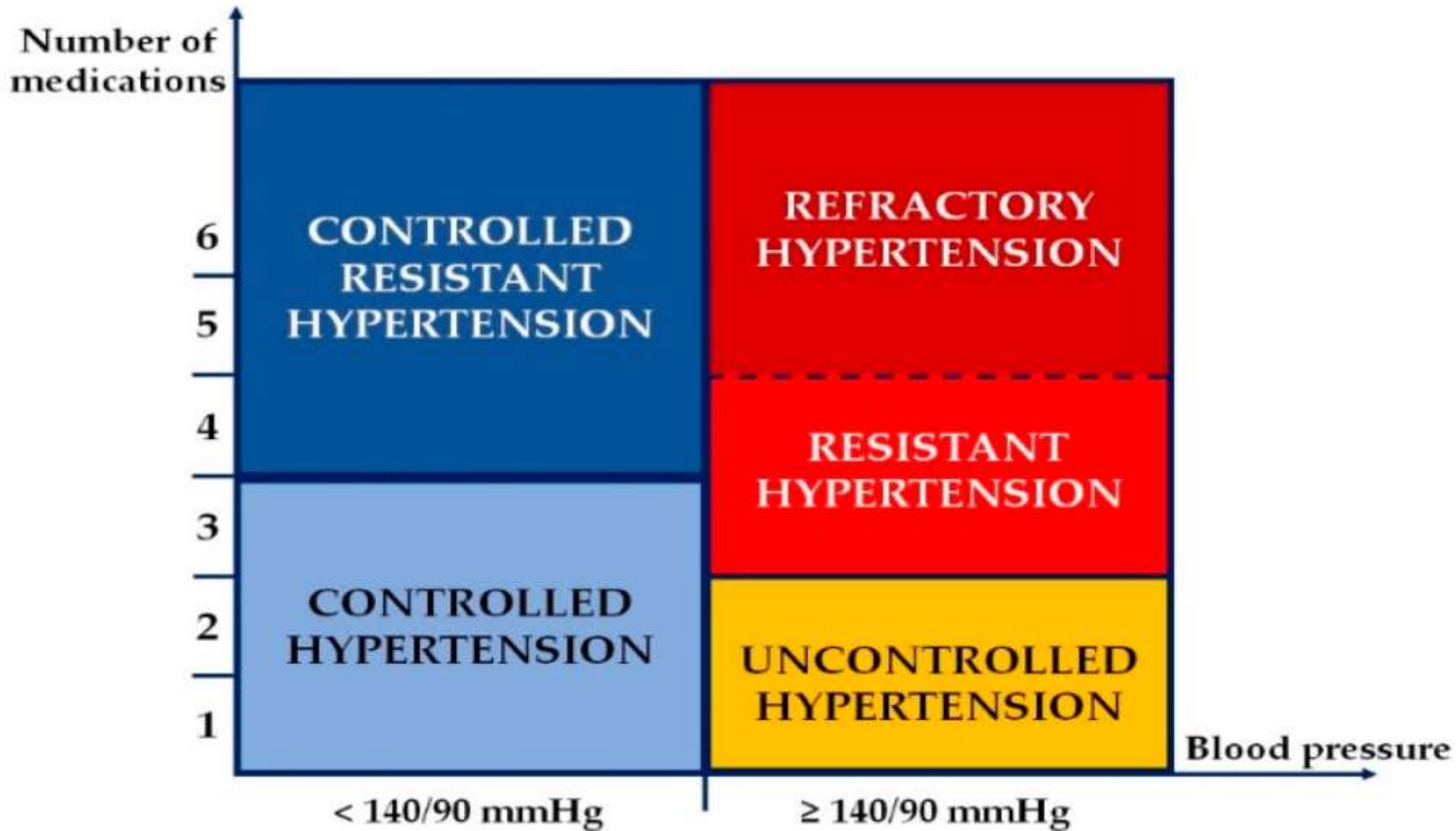
COURSE NAME: PHARMACOLOGY II (BP-503 T)

III YEAR / V SEMESTER

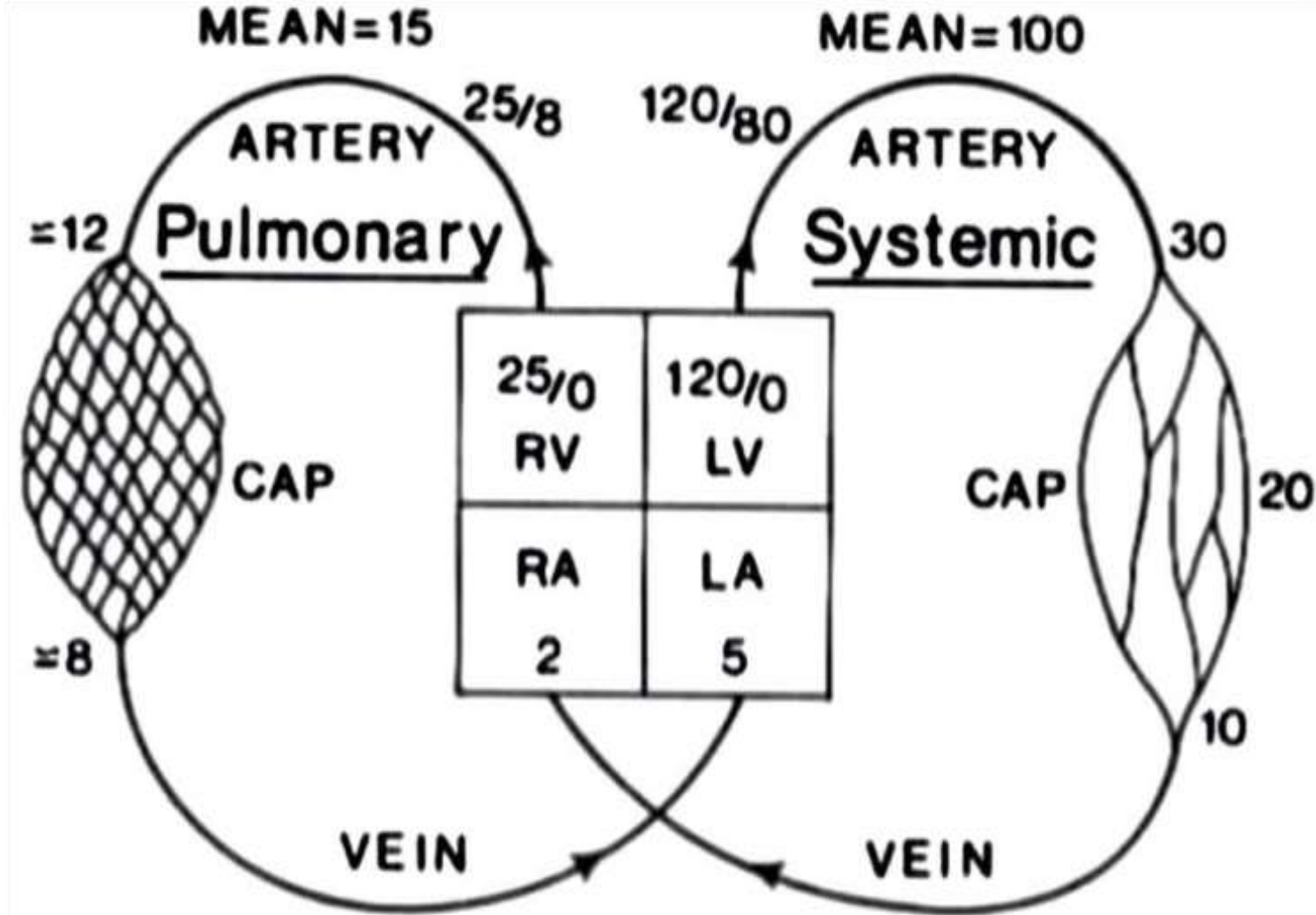
TOPIC 3 : Anti-hypertensive drugs.

MIND MAP

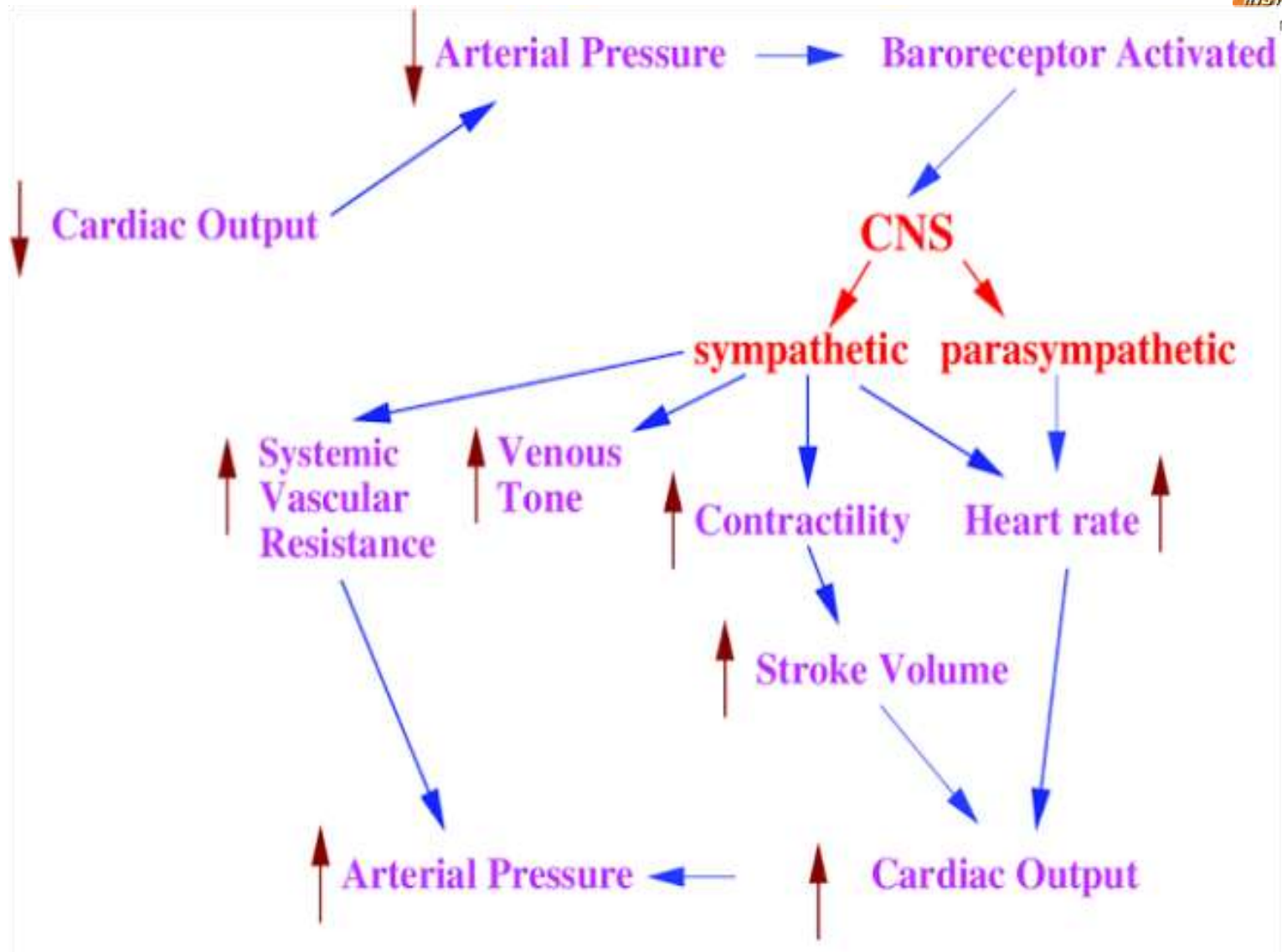




REGULATION OF BLOOD PRESSURE



BARORECEPTOR OF REFLEX CONTROL



ANTI HYPERTENSIVE DRUGS



**ACE
INHIBITORS**



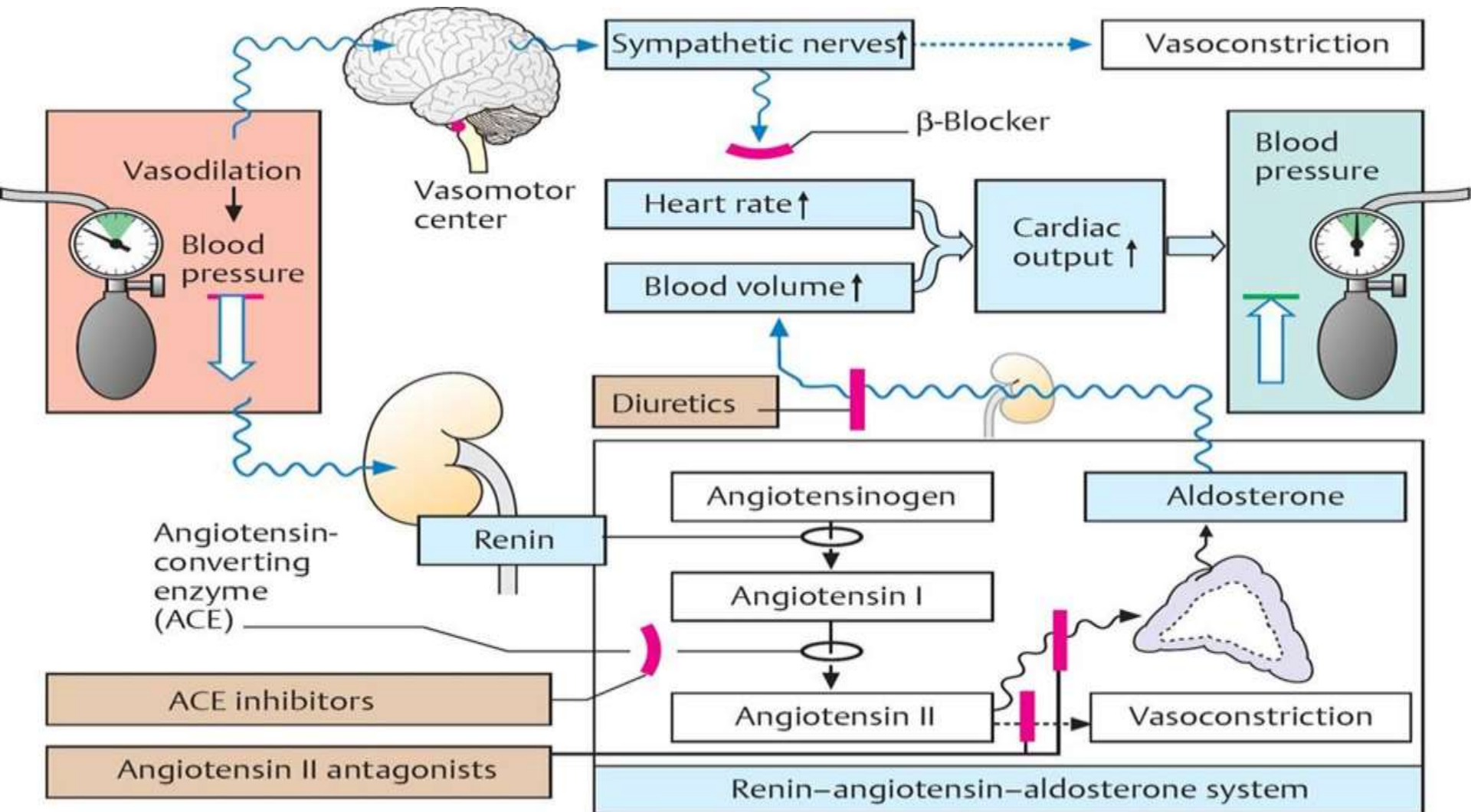
**BETA
BLOCKERS**



DIURETICS



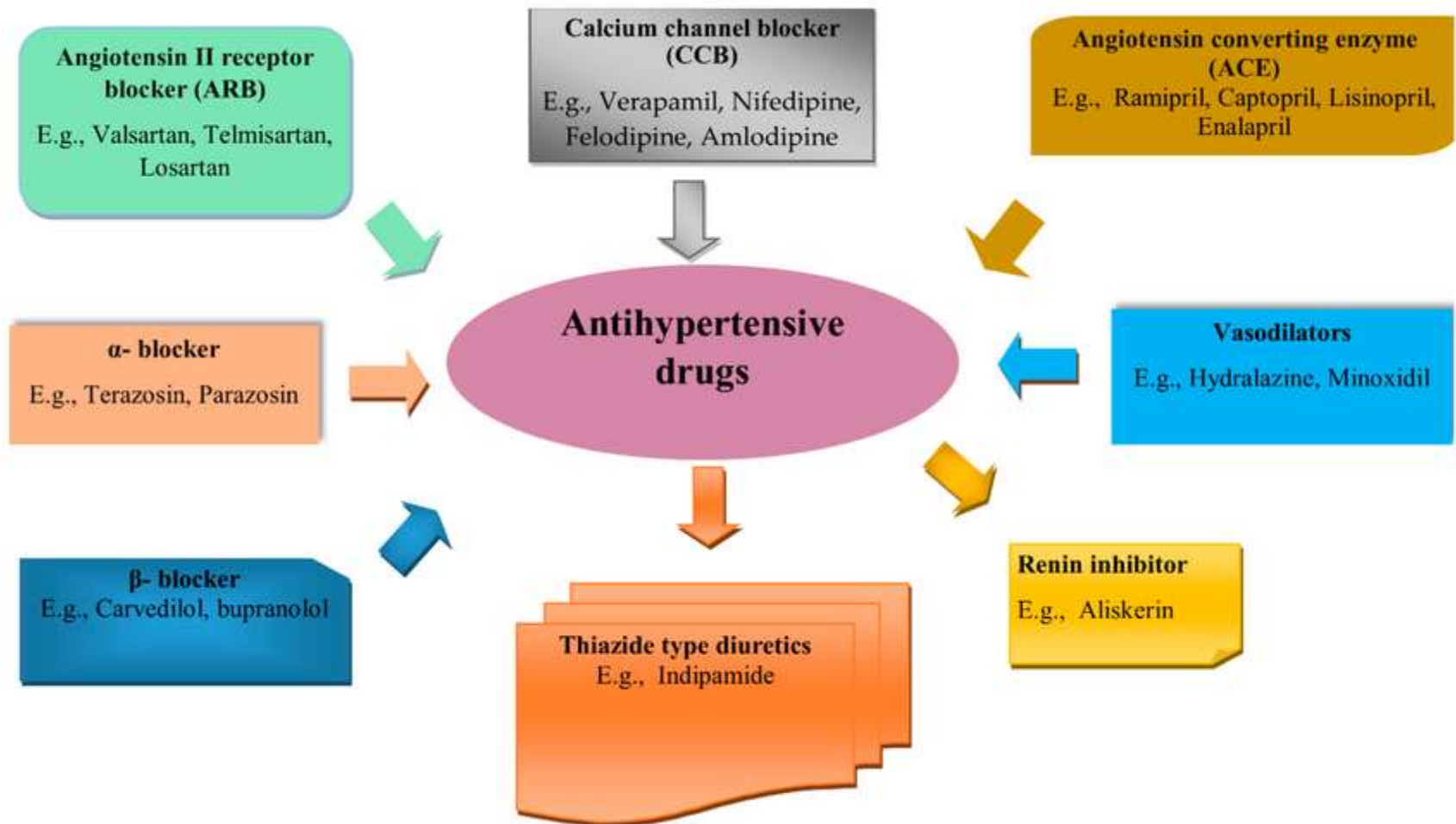
**CALCIUM
CHANNEL
BLOCKERS**



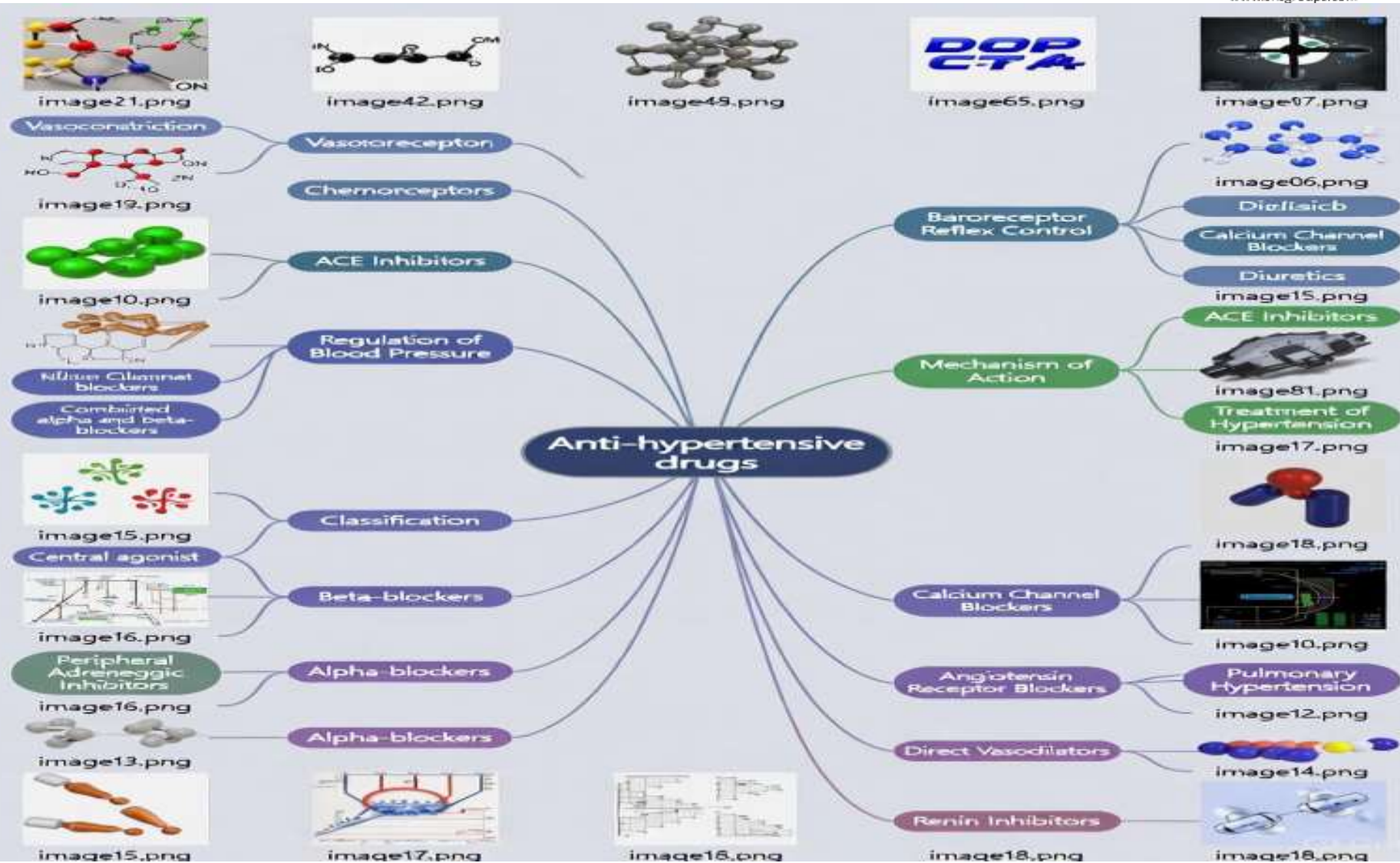


ANTIHYPERTENSIVE DRUGS CLASSIFICATION

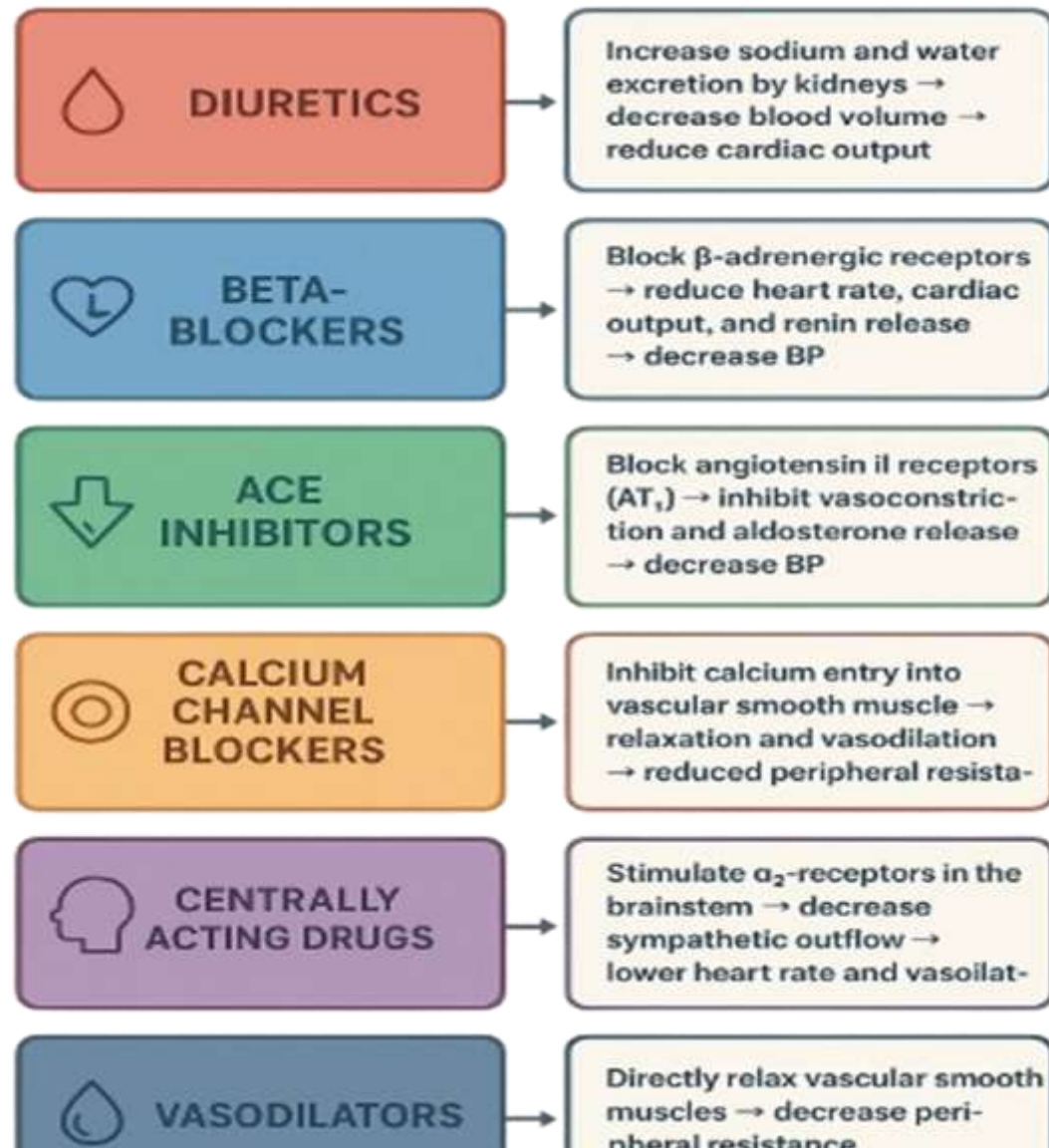
CLASSIFICATION



CLASSIFICATION

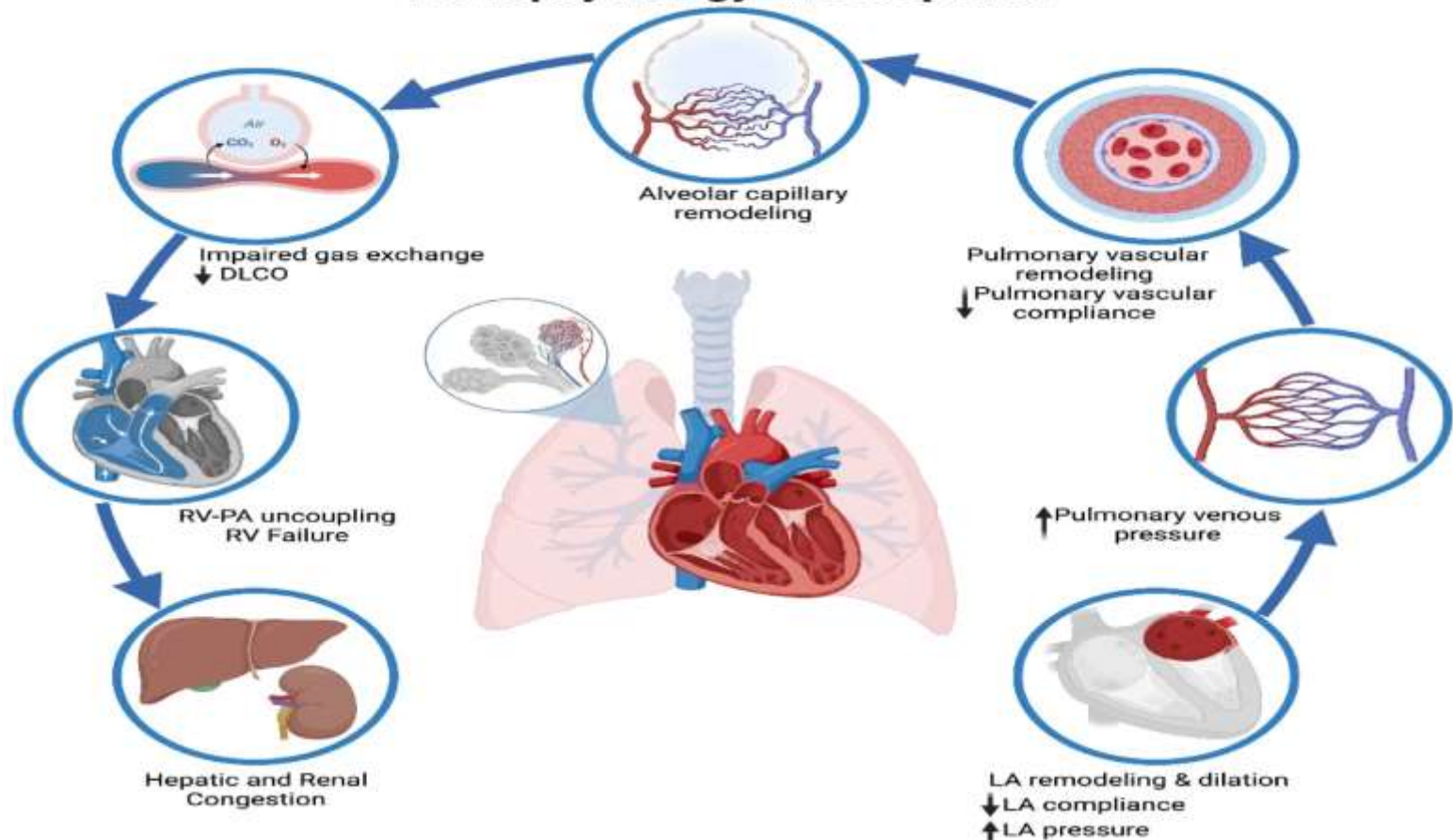


MECHANISM OF ACTION

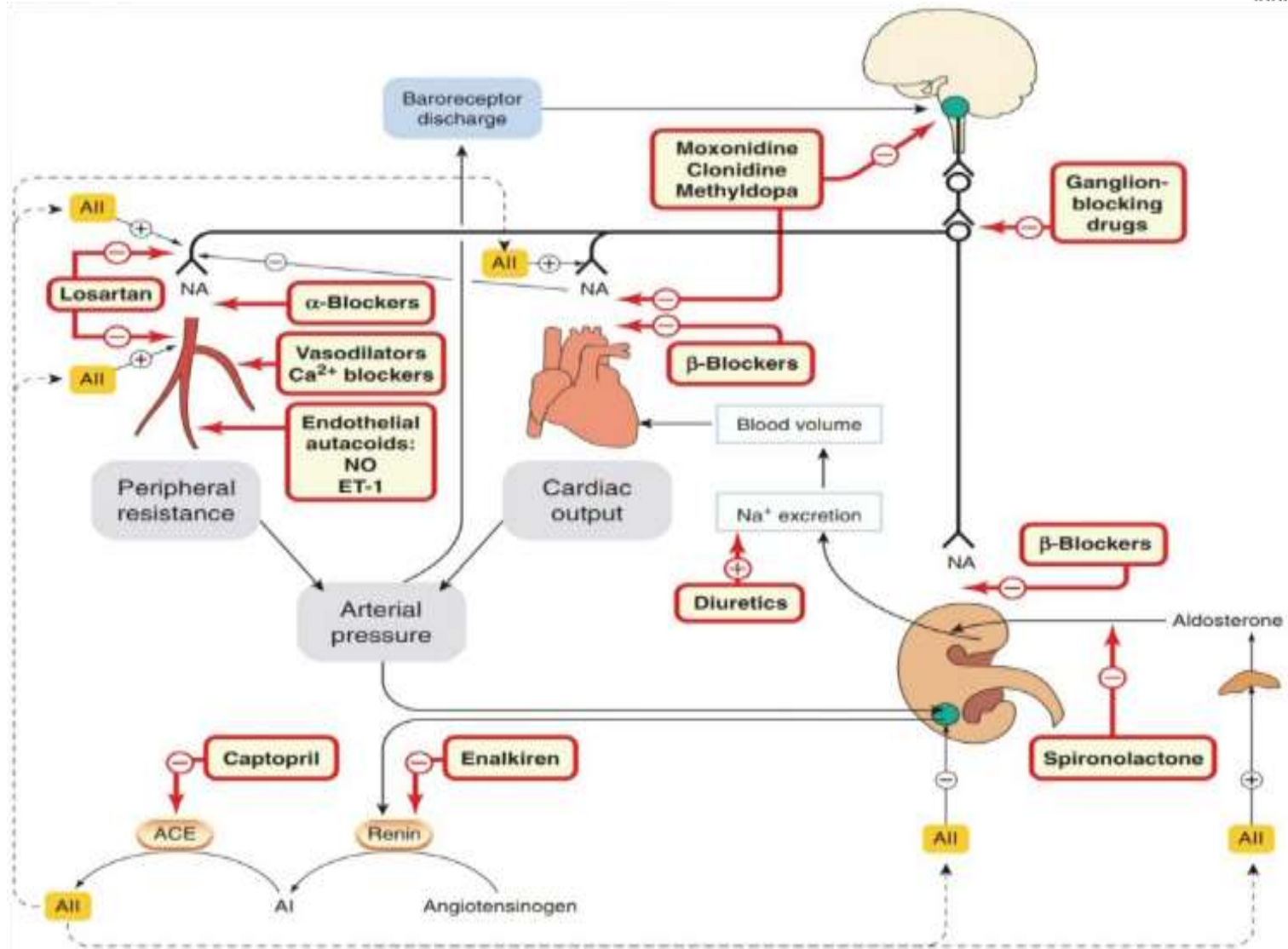


TREATMENT OF PULMONARY HYPERTENSION

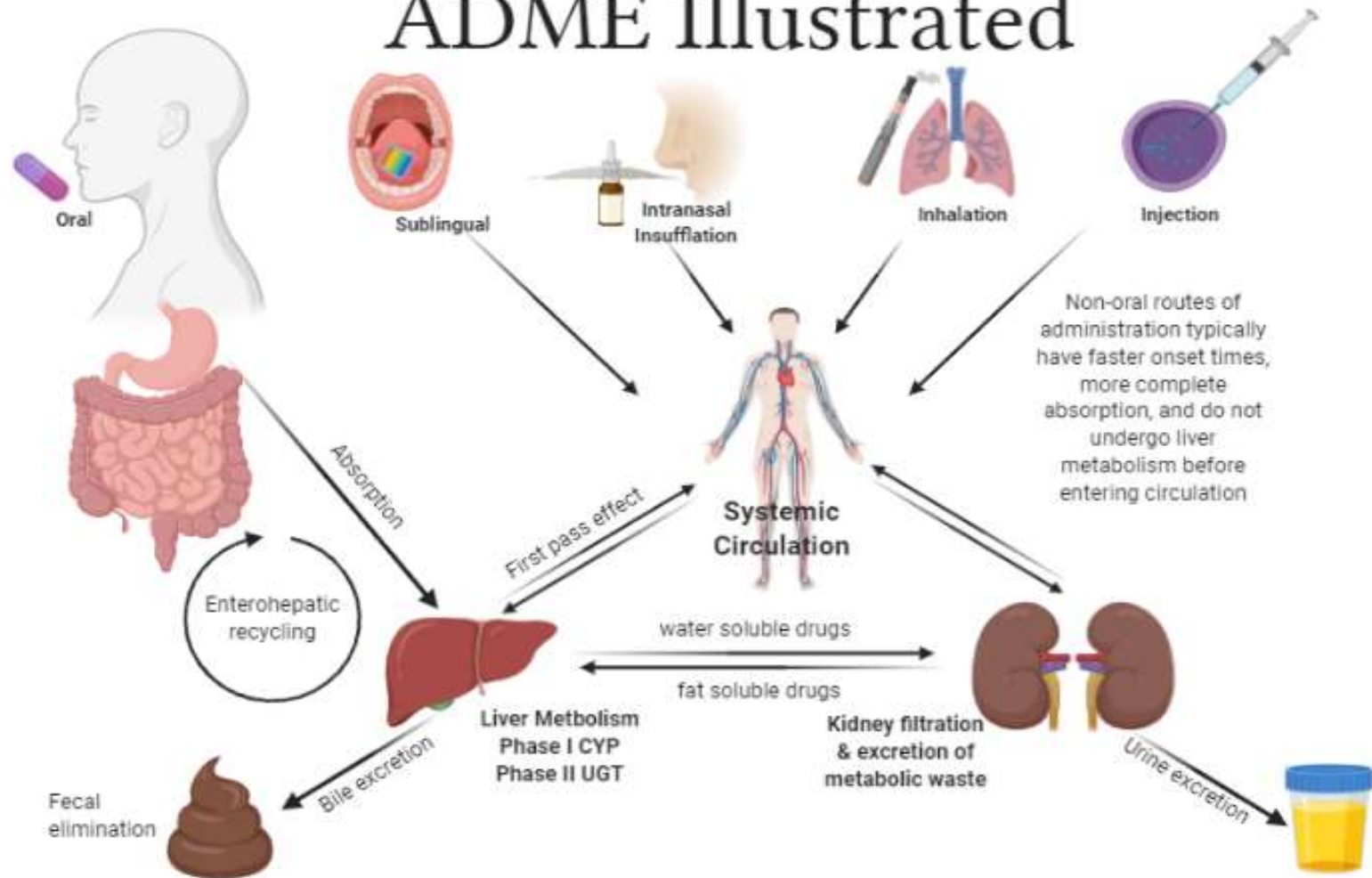
Post-Capillary Pulmonary Hypertension Pathophysiology and Sequelae



REGULATION OF BLOOD PRESSURE IN SYSTEMIC CIRCULATION AND ACTION OF HYPERTENSIVE DRUGS



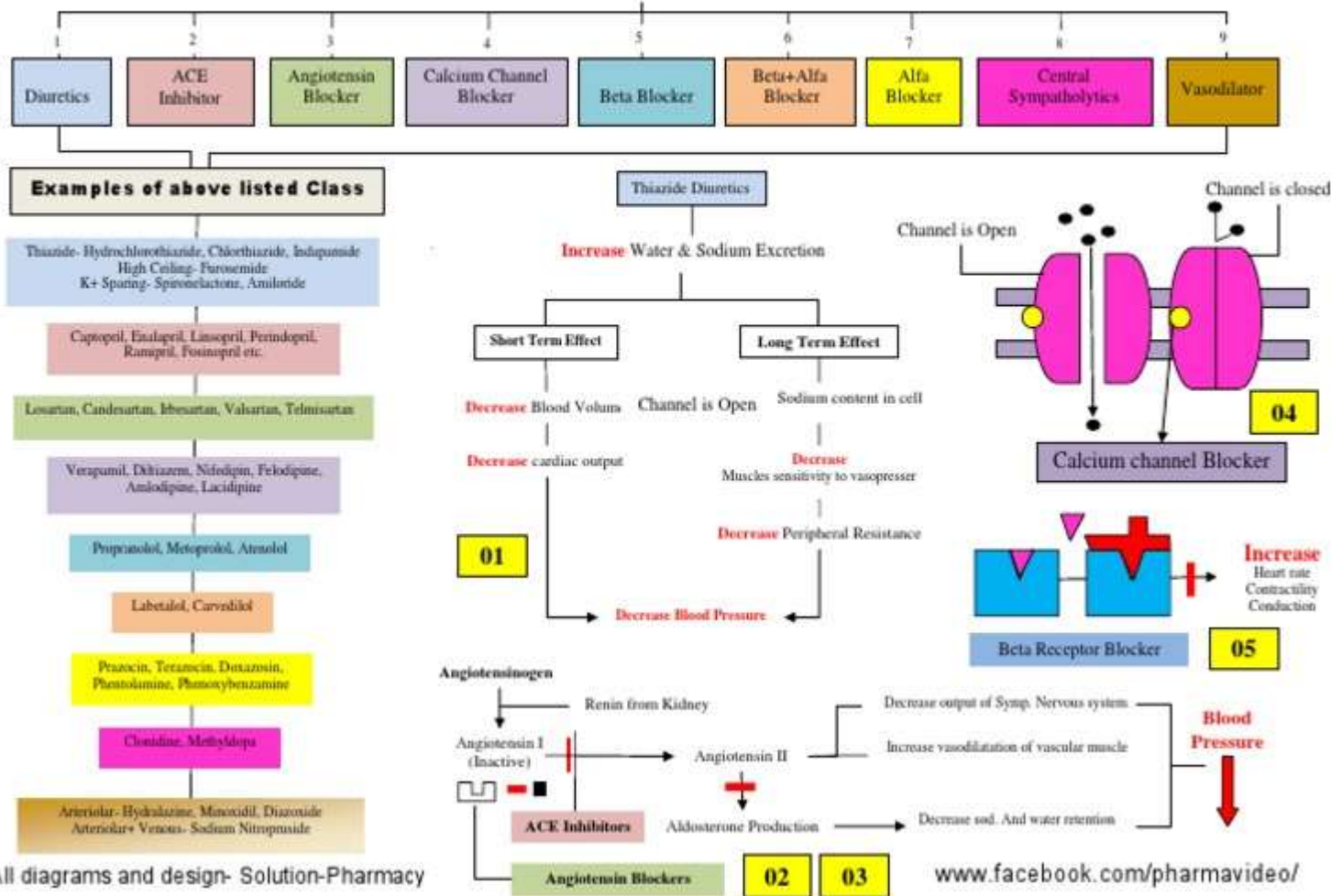
ADME Illustrated

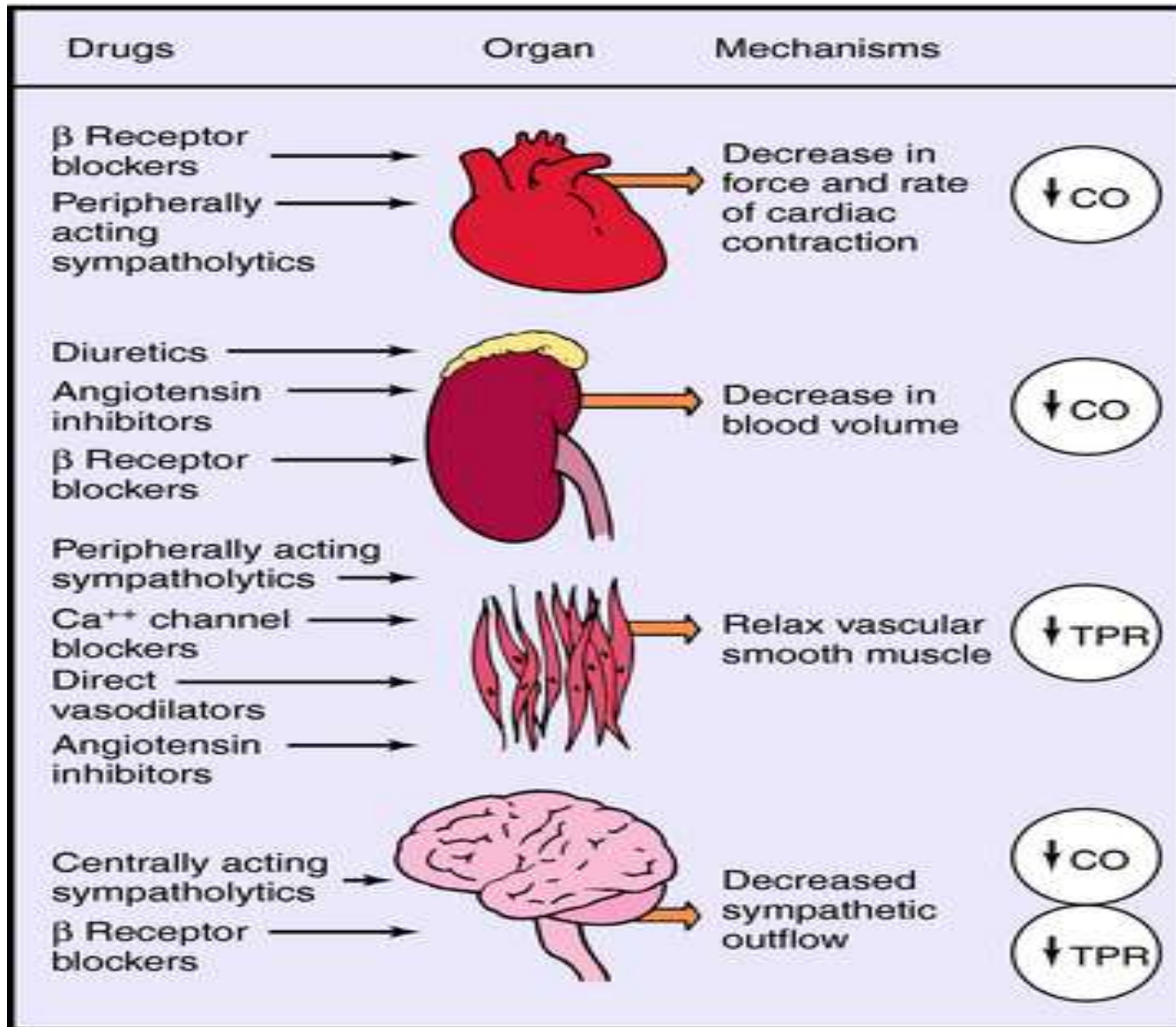


Anti-Hypertensive Drugs

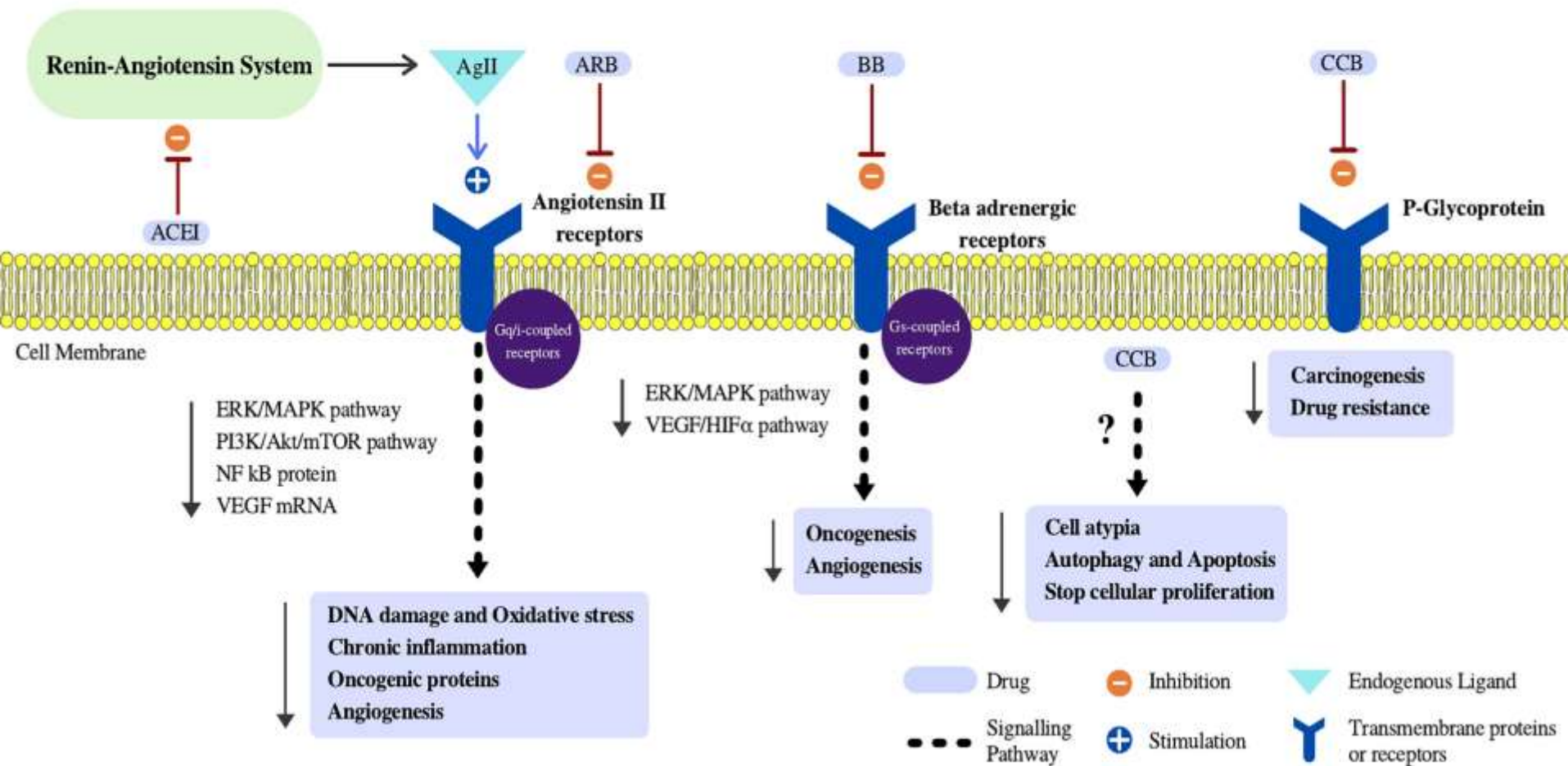
Prevention is always better than cure

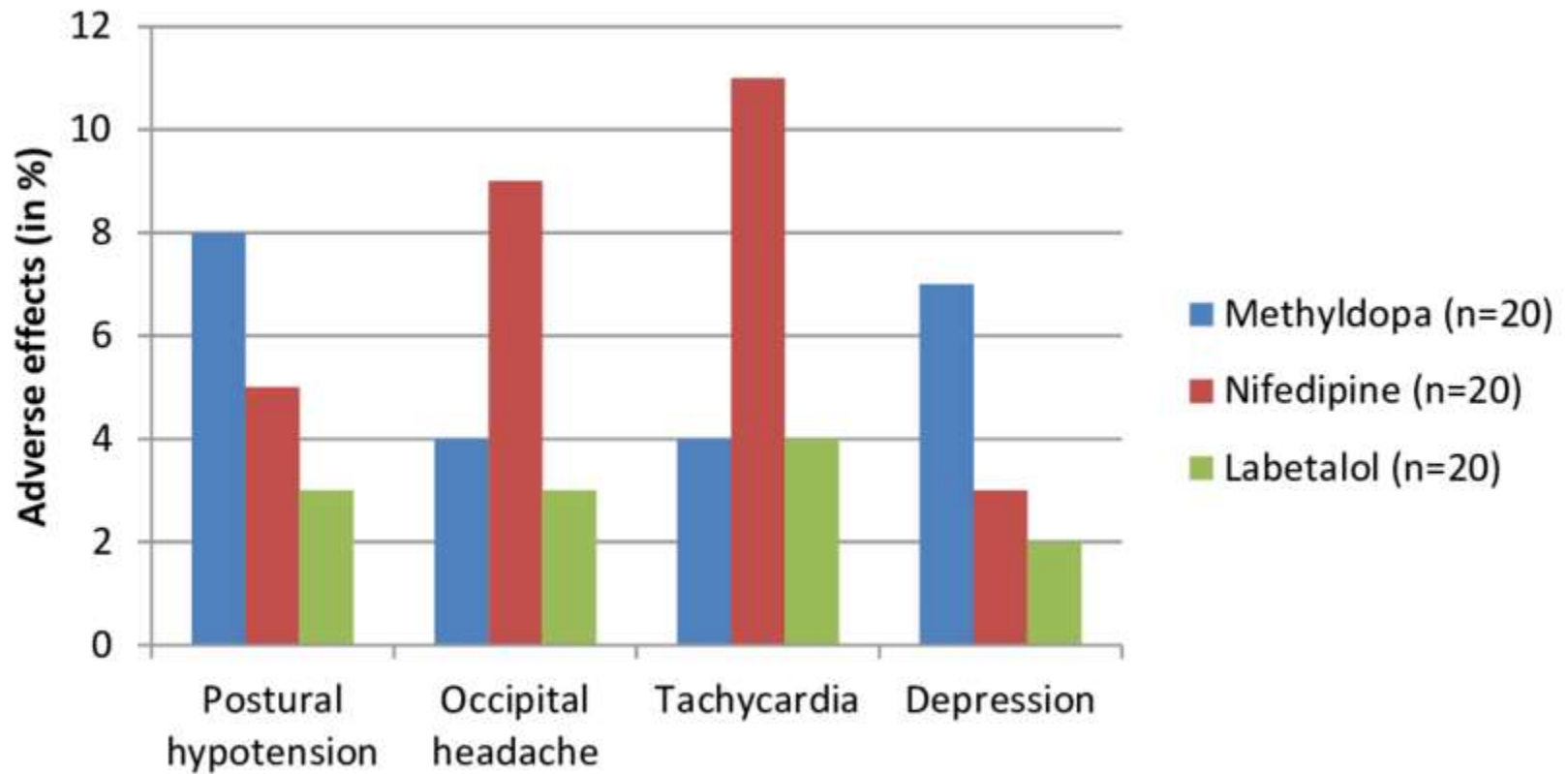
Classification- KD Tripathi



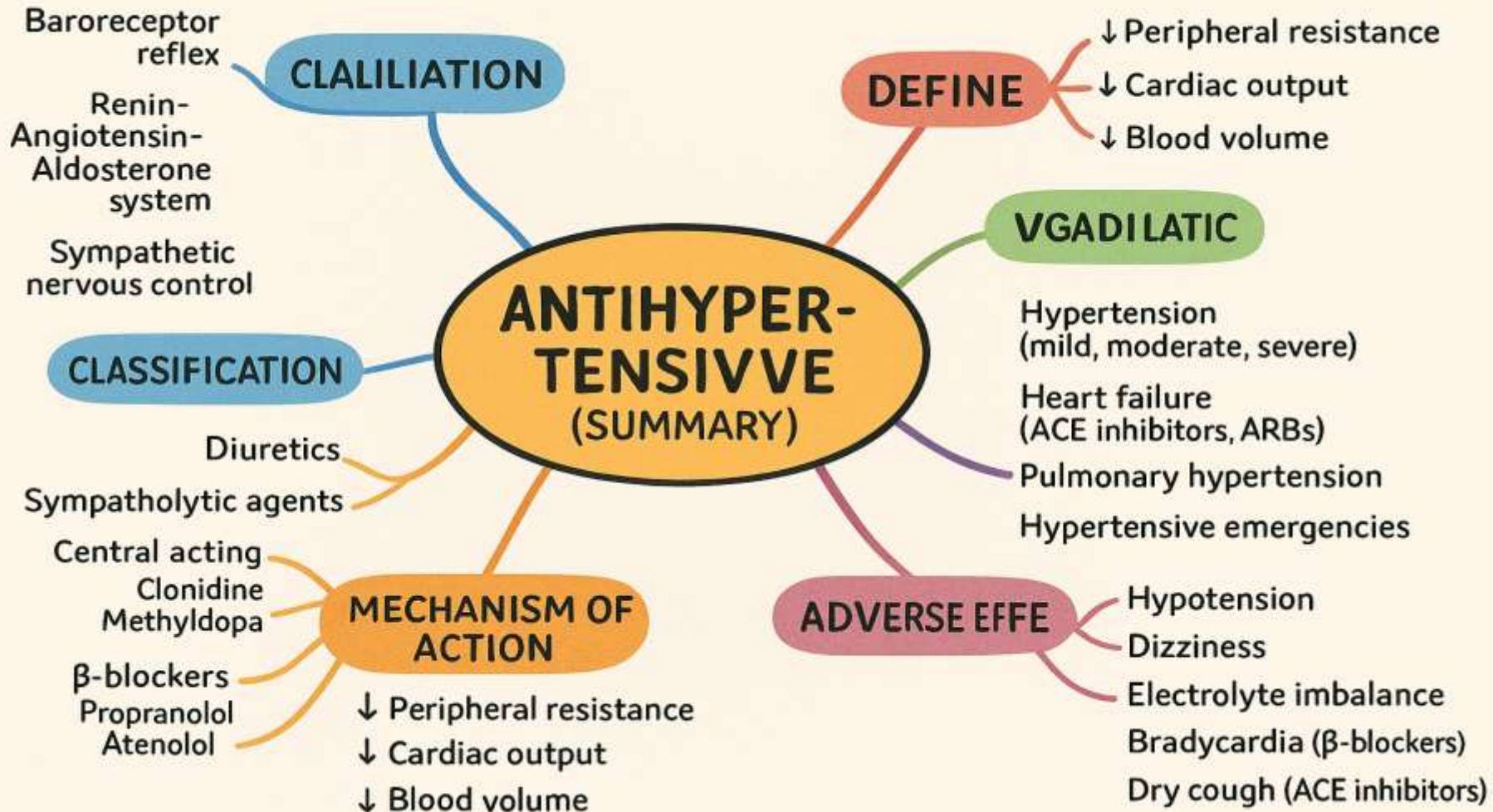


Antihypertensive drugs: Antitumoral mechanisms





SUMMARY



ASSESSMENT

1. Which of the following is an ACE inhibitor?

- A. Propranolol
- B. Losartan
- C. Captopril
- D. Nifedipine

✓ Answer: C. Captopril

2. Beta-blockers reduce blood pressure mainly by:

- A. Increasing heart rate
- B. Decreasing cardiac output
- C. Increasing peripheral resistance
- D. Stimulating the renin-angiotensin system

✓ Answer: B. Decreasing cardiac output

3. Which drug class blocks calcium entry into vascular smooth muscle cells?

- A. Diuretics
- B. ACE inhibitors
- C. Calcium channel blockers

C. Calcium channel blockers

D. Alpha blockers

✓ Answer: C. Calcium channel blockers

4. A common side effect of ACE inhibitors is:

A. Dry cough

B. Bradycardia

C. Edema

D. Constipation

✓ Answer: A. Dry cough

5. Which of the following is used in hypertensive emergencies?

A. Methyldopa

B. Sodium nitroprusside

C. Hydrochlorothiazide

D. Atenolol

✓ Answer: B. Sodium nitroprusside

- **REFRANCES**

- Katzung B. G., Masters S. B., Trevor A. J., Basic and clinical pharmacology,

Tata Mc Graw-Hill

- Goodman and Gilman's, The Pharmacological Basis of Therapeutics
- Marry Anne K. K., Lloyd Yee Y., Brian K. A., Robbin L.C., Joseph G. B., Wayne A. K., Bradley R.W., Applied Therapeutics, The Clinical use of Drugs, The Point Lippincott Williams & Wilkins
- Mycek M.J, Gelnet S.B and Perper M.M.
Lippincott's Illustrated Reviews- Pharmacology
- K.D.Tripathi. Essentials of Medical Pharmacology,
JAYPEE Brothers Medical Publishers (P) Ltd, New Delhi

