



# CENTRALLY ACTING SYMPATHOLYTICS

BY :  
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# Centrally acting sympatholytics

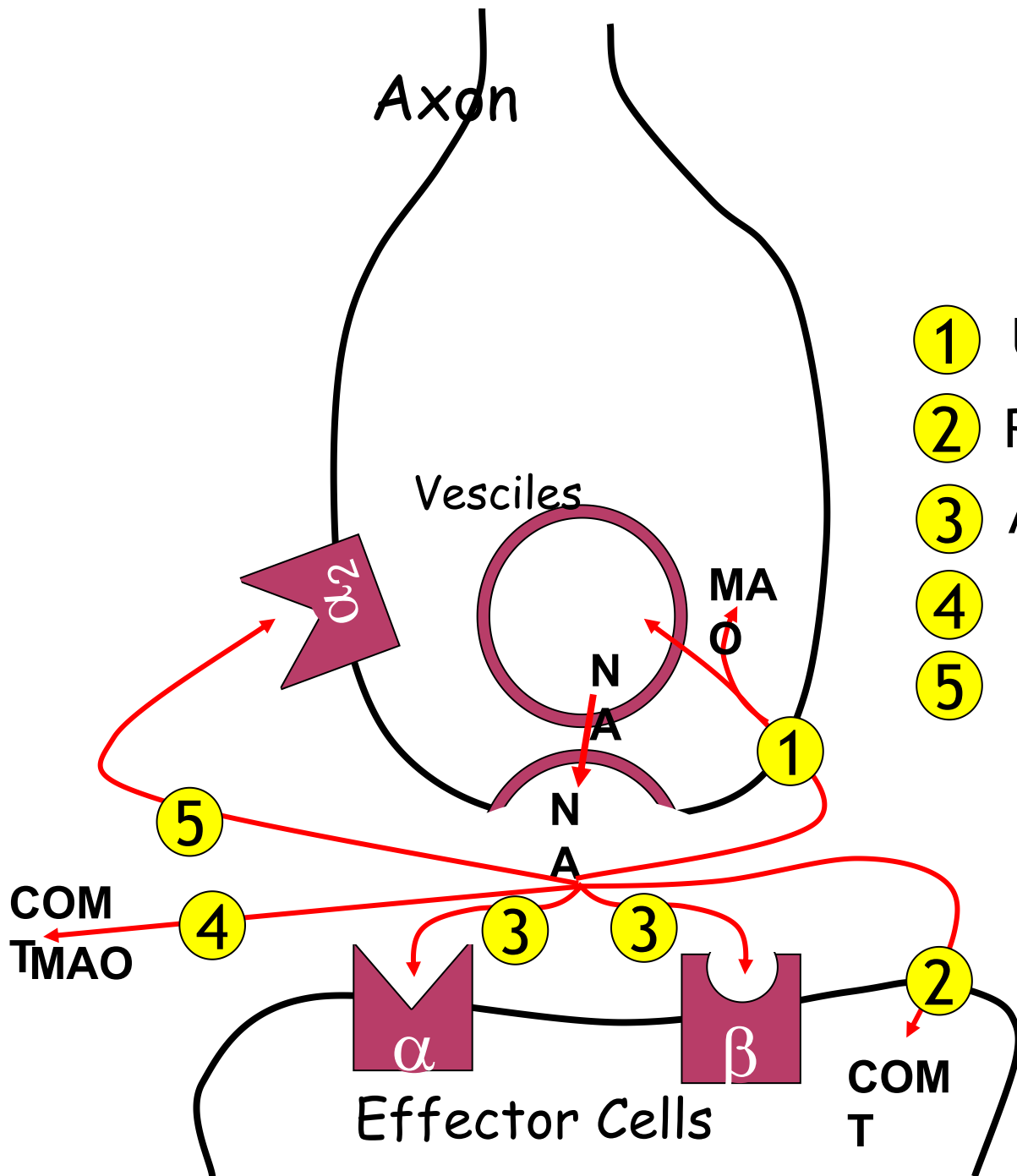
- Clonidine
- $\alpha$  Methyl dopa
- Guanbenz
- Guanfacine



# Clonidine

- Highly lipid soluble, crosses blood brain barrier
- Stimulates  $\alpha_{2a}$  receptors in vasomotor centre
- $\downarrow$  sympathetic outflow from VMC leading to  $\downarrow$ HR ,  $\downarrow$  COP &  $\downarrow$ PVR thus  $\downarrow$  BP.





- ① Uptake 1
- ② REUPTAKE II
- ③ Acts on receptors
- ④ Diffused ,  
metabolized
- ⑤ Acts on  
autoreceptor

# Clonidine

## • Uses:

- Opioid withdrawal
- Alcohol withdrawal
- Diabetic neuropathy

## ○ Adverse effects :

- Dryness of mouth and eyes
- Sedation, bradycardia, impotence
- Sudden withdrawal - rebound hypertension

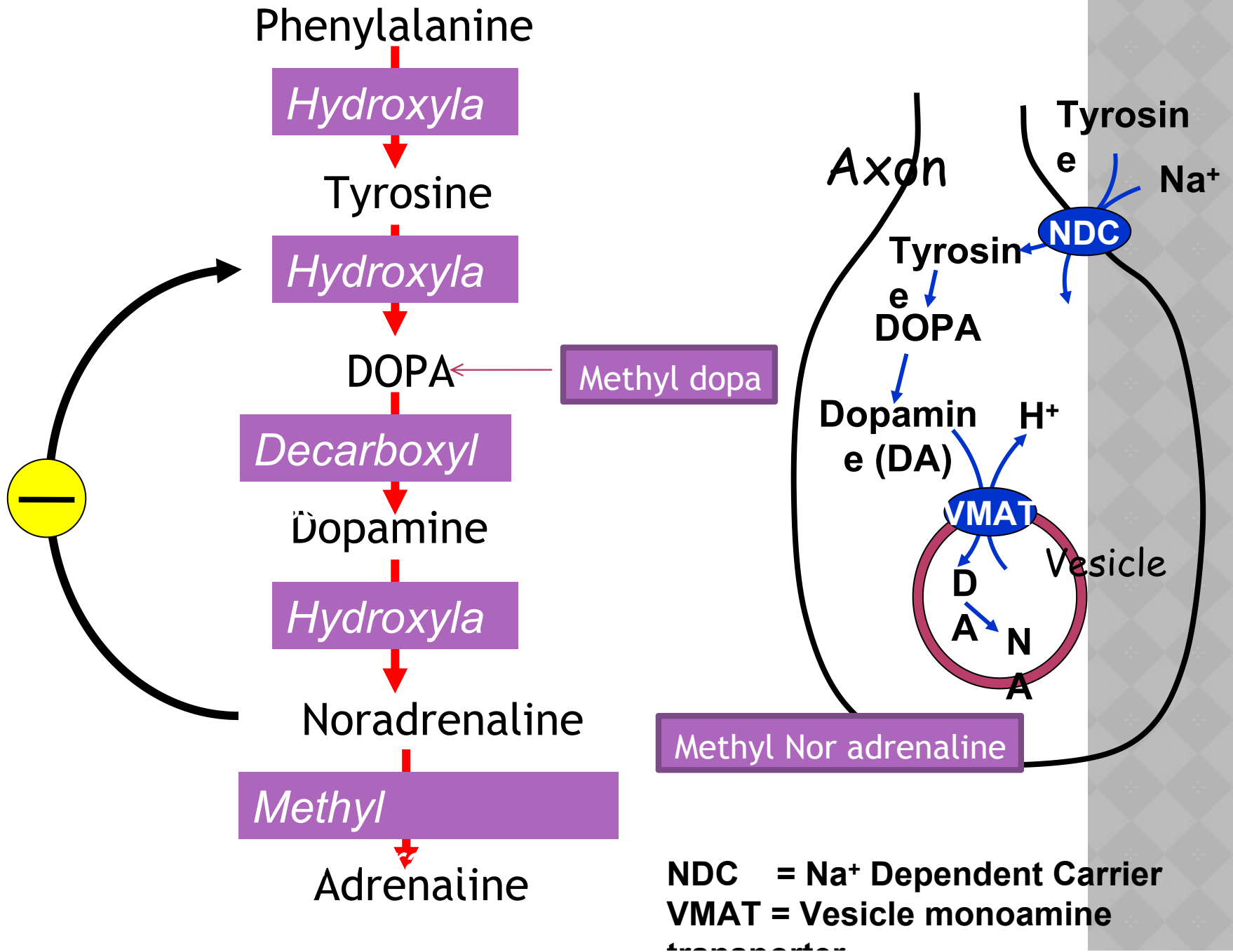




# methyl dopa

- Methyl dopa inhibits the enzyme  
“**Dopa de-carboxylase**”
- Methyl dopa is the safest drug in  
**Pregnancy induced Hypertension**





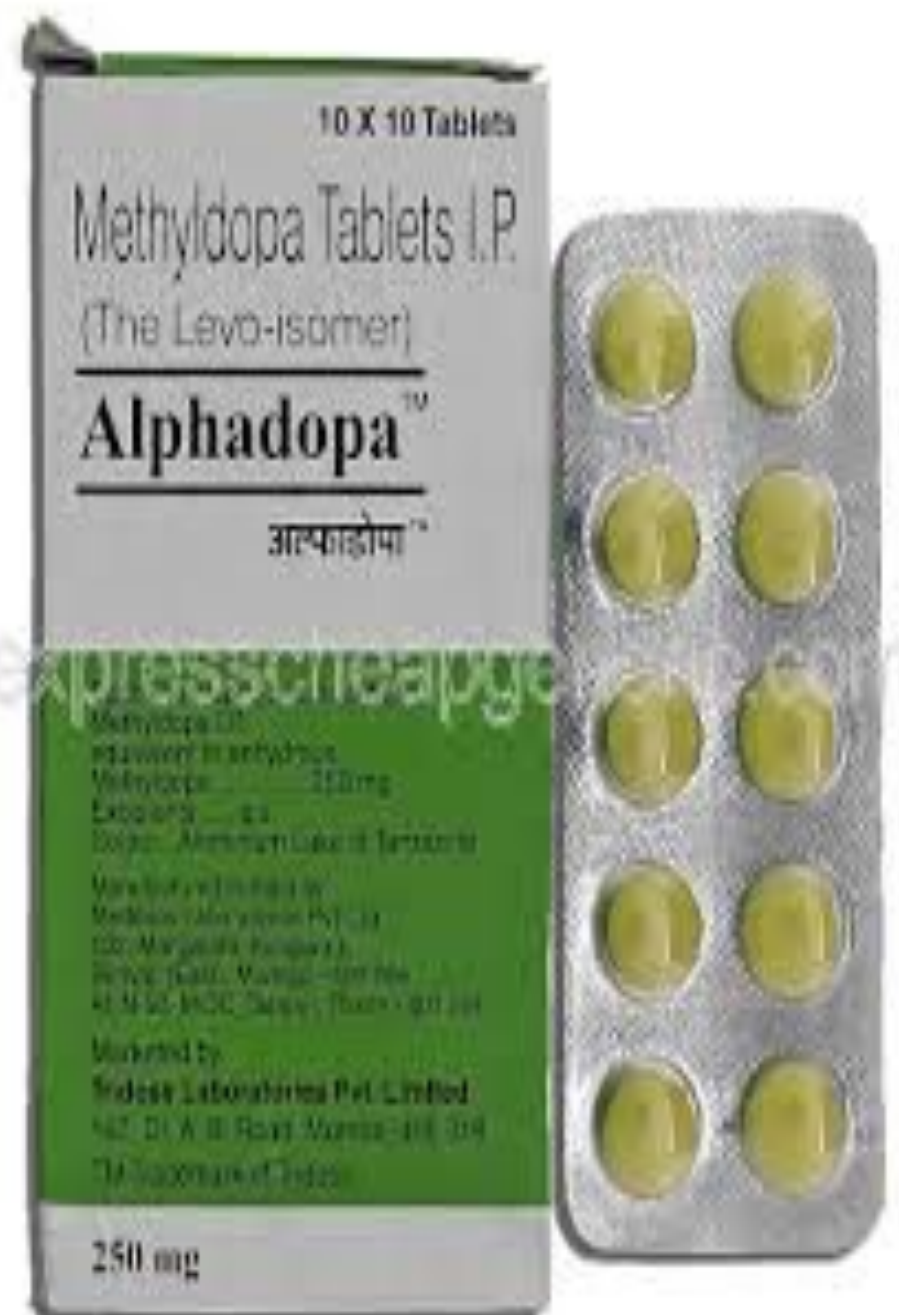


# **methyl dopa**

## **Adverse effects:**

- Methyl dopa causes sedation, dry mouth, drowsiness.





THANK

