

Pharma

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Summaries of Ali Al-Murtada

ملخصات

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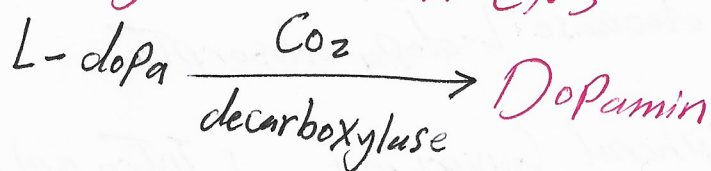


Anti-Parkinson (Dopamin[↑])

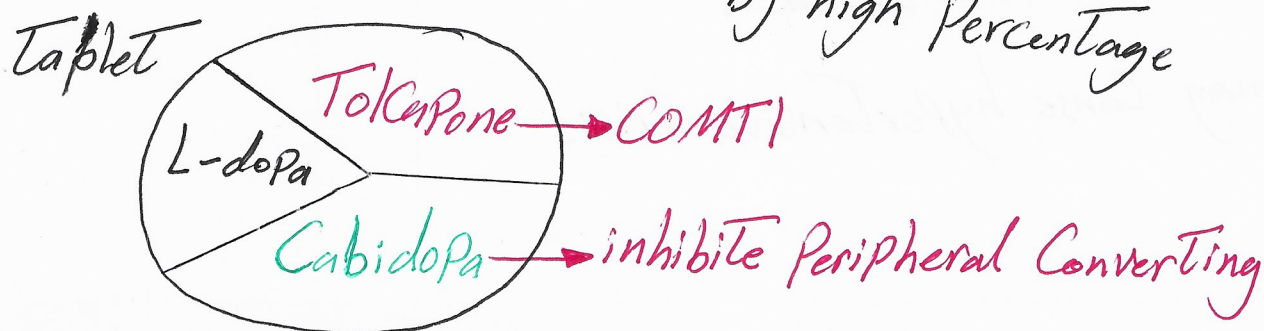
* Substantia nigra work with Ach and Dopamin,
Parkinson happen because of loss Dopamin due to alot of
Causes, one of them anti-Psychotic drugs So to fix that :-

- 1-decrease Ach by ~~M~~ (ATropine)
- 2-increase Dopamin by alot of ways
 - A- Levo-dopa (L-dopa)
 - B- COMT inhibitors (Tolcapone)
 - C- MAO inhibitors (Selegiline)
 - D- Dopamin agonist (Bromocriptine)
 - E- Decrease reuptake (Amantadine) → anti-viral ☹️

L-dopa :- Orally absorbed in intestine, duration (1-2h)
Only 1-5% reach CNS



* Most of L-dopa Converts Peripherally So Combine with
Other drugs To reach CNS by high Percentage



Adverse effects:-

- 1- mood changes, hallucinations
 - 2- depression and anxiety
 - 3- dyskinesia
-] CNS
- 4- ~~nausea~~ nausea and vomiting
 - 5- anorexia فقدان الشهية
 - 6- Cardiac arrhythmia and hypotension and Tachycardia
 - 7- Blood ~~dys~~ dyscrasia with positive Coomb's Test
 - 8- L-dopa $\rightarrow$ homovanillic acid $\rightarrow$ Brownish sweat
Brownish urine
Brownish Saliva

Interactions:-

- 1- amino acid and protein decrease L-dopa absorption
Food
- 2- B6 Vitamin increase Peripheral Converting
- 3- Patient with glaucoma, it increases I. O. P. [Intra Ophthalmic
Pressure]
- 4- ~~L-dopa + anti-Psychotic~~
- 5- Patient with Cardiac diseases
- 6- MAOI may cause hypertensive Crisis

Bromocriptine :- D_2 agonist, weak ~~X~~ antagonist
usually absorbed from gut, has long half-life than
L-dopa

Amantadine :- anti-viral, use to inhibit reuptake of dopamine
has little effect on tremor but effective against
rigidity and bradykinesia

Tolcapone :- inhibit COMT lead to decrease concentration of
metabolite and increase central reuptake of L-dopa
and greater concentration in Brain

Anti-muscarinic drugs :- eg:- benzhexol, Orphenadrine and
Procyclidine

They produce improvement in tremors, rigidity
Sialorrhoea, muscular stiffness but little in
hypokinesia
سيلان اللعاب →

