



MEDICINE
KING SAUD UNIVERSITY



MCQs

SAQs

Summary

Drugs affecting the balance system

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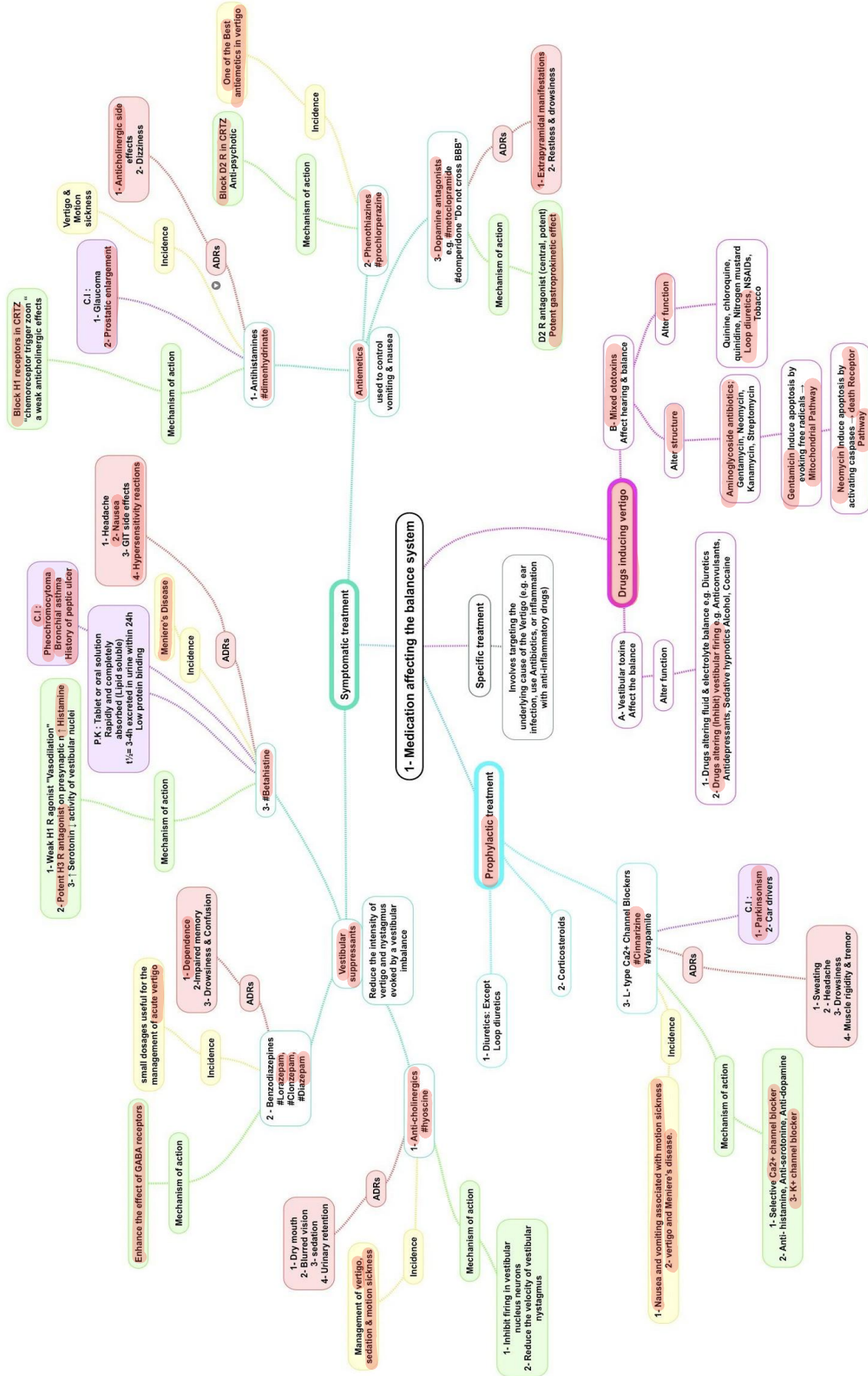


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Summary



MCQs

1. Which of the following drugs is contraindicated in parkinsonism?

- a) Prochlorperazine.
- b) Betahistine.
- c) Cinnarizine.

2. Which of the following is the most common balance disorder?

- a) Acute labyrinthitis.
- b) Meniere's disease.
- c) Benign Paroxysmal Positional Vertigo.

3. Sami a 30-year-old male who is going in a cruise trip and he suddenly felt dizzy and nauseous. Which of the following drugs can treat his symptoms especially his nausea?

- a) Betahistine & Lorazepam.
- b) Hyoscine & Diminhydrinate.
- c) Quinidine & Betahistine.

4. Which of the following is a mixed ototoxic so they enhance the incidence of vertigo and loss hearing by alter function?

- a) Loop diuretics.
- b) Anticonvulsants.
- c) Cocaine.

5. Patient came to the hospital with Meniere's disease, which on of the following drugs will be the drug of choice as prophylactic?

- a) Cinnarizine.
- b) Diminhydrinate.
- c) Furosemide.

6. Dimenhydrinate causes which of the following side effects:

- a) Extra-pyramidal manifestation.
- b) Anticholinergic effect.
- c) Increase risk of falling.

7. Lorazepam causes which of the following side effects:

- a) Extra-pyramidal manifestation.
- b) Anticholinergic effect.
- c) Increase risk of falling.

8. Metoclopramide causes which of the following side effects:

- a) Extra-pyramidal manifestation.
- b) Anticholinergic effect.
- c) Increase risk of falling.

Answers:

- 1. C.
- 2. C.
- 3. B.
- 4. A.
- 5. A
- 6. B.
- 7. C.
- 8. A.

MCQs

8. Which of the following drugs blocks dopamine receptor D2 at CRTZ?

- a) Diminhydrinate.
- b) Metoclopramide.
- c) Prochlorperazine.
- d) Both B & C

9. A 43-year-old male who was diagnosed with Adrenal gland tumor develop episode of vertigo, which drugs of the following can not be used?

- a) Hyoscine.
- b) Betahistine.
- c) Cinnarizine.

10. A 38-year-old female came to the doctor with tremors and rigidity, the doctor thought that she had Parkinsonism, but after taking her medical history he changed his diagnose. What do you think her medical history show up?

- a) She use Anti-emetics drugs such as Dimenhydrinate
- b) She use Anti-emetics drugs such as Prochlorperazine.
- c) She use Anti-emetics drugs such as Metoclopramide

Answers:

- 8. D
- 9. B
- 10. C.

SAQs

A 27-year-old female Ballet dancer, she had symptoms of Confusion Nausea , vomiting . That symptoms Supports the diagnosis of balance disorder of Meniere's Disease type. After taking one tablet of the prescribed medication, she developed Hypersensitivity reaction and Headache.

-What is the medication she is took And what is the mechanism of action ?

- Betahistine
- < 1- Weak histamine H1 receptor agonist → By stimulating H1 receptors located on BV in the inner ear → local vasodilation and ↑ permeability → helps to reverse the underlying problem of endolymphatic hydrops. (accumulation of endolymph) → Reduce pressure in endolymph
- . 2- More potent histamine H3 receptor antagonist properties → By blocking H3 receptors in presynaptic nerve end → prevent reuptake of Histamine by H3 R → ↑ the local concentration of histamine in the inner ear → ↑ the direct H1-agonist activity. - increases the level of serotonin in the brainstem → ↓ the activity of vestibular nuclei.

-What is the side affect of this drug ?

- Headache → by vasodilation. - Nausea. - GIT side effects. → H1 R is found in smooth muscles of GIT → ↑ contractility by the effect of histamine. - Hypersensitivity reactions.

- List some of pharmacokinetic of this drug ?

- Tablet or oral solution.
- Rapidly and completely absorbed (Lipid soluble)
- $t_{1/2}$ = 3-4 h.
- excreted in urine within 24h.
- Low protein binding

Zoom in to check your answers