

Athar

Pharmacology Mid

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1) Treatment of hyperthermia is:

A) Dantrolene

2) Which of the following statements is incorrect about carbon monoxide (CO)?

A) results from complete combustion

3) Which of the following medications is known for not crossing the placental barrier?

A) Aspirin

B) Heparin

C) Penicillin

D) Insulin

answer: B

4) A young child accidentally ingested a large amount of iron supplements. Which of the following medications is the most appropriate antidote for iron poisoning in this scenario?



- A) Activated charcoal
- B) Ipecac syrup to induce vomiting
- C) Desferoxamine
- D) Intravenous fluids

Answer : C

5) Which medication is the specific antidote for benzodiazepine overdose?

- A) Naloxone
- B) Activated charcoal
- C) Flumazenil
- D) Ipecac syrup

Answer : C

6) Which of the following medications is NOT classified as a Group B or Group C drug ?

- A) Isoniazid (INH)
- B) Rifampicin (RIF)
- C) Pyrazinamide (PZA)



D) Angiotensin-converting enzyme (ACE) inhibitors

Answer :D

7) Which type of adrenergic receptor is primarily responsible for mediating the increase in heart rate (HR) in response to sympathetic stimulation?

- A) Alpha 1 receptor (α_1)
- B) Alpha 2 receptor (α_2)
- C) Beta 1 receptor (β_1)
- D) Beta 2 receptor (β_2)

Answer:C

8) One of the following medicines a lactating woman should not avoid???

- (A) Ibuprofen
- (B) Naproxen
- (C) Aspirin
- (D) Paracetamol



Answer :D

9) Which of the following is NOT a common adverse effect of direct cholinomimetics?

- (A) Bronchospasm**
- (B) Excessive salivation**
- (C) Accommodation for far vision and darkness**
- (D) Constipation**

Answer : D

10) Which of the following is the primary effect of sympathetic stimulation on the lungs?

- (A) Bronchoconstriction**
- (B) Bronchodilation**
- (C) Increased mucus production**
- (D) Decreased blood flow to the lungs**



answer : B

11) Which of the following statements about bethanechol is INCORRECT?

- (A) Bethanechol is a synthetic cholinergic agonist.**
- (B) Bethanechol has both muscarinic and nicotinic receptor activity.**
- (C) Bethanechol is primarily used to treat urinary retention and intestinal atony.**
- (D) Bethanechol has good muscarinic activity and HIGH NICOTINIC activity.**

Answer :D

12) Which of the following locations is MOST LIKELY to contain nicotinic acetylcholine receptors?

- (A) Skeletal muscle fibers only**
- (B) Central nervous system (CNS) neurons only**
- (C) Neuromuscular junctions (NMJ) and autonomic ganglia**
- (D) Both skeletal and smooth muscle fibers**



Answer : C

13) Which of the following is the primary purpose of using a placebo in a clinical trial?

(A) To provide a pharmacologically inert substance to control for the effects of the study drug.

(B) To eliminate observed bias that could influence the results of the study.

(C) To detect the pharmacological effects of the study drug compared to the placebo.

(D) To control for comparison between the study drug and the placebo.

Answer : C لأنه المفروض non-pharmacological 😊

14) Which of the following classes of medications is primarily used to treat overactive bladder (OAB) by promoting bladder relaxation ?



- (A) Cholinergic agents (Cholinergics)**
- (B) Adrenergic blockers (Beta-blockers)**
- (C) Anticholinergic agents (Antimuscarinics)**
- (D) Alpha-adrenergic agonists (Alpha-1 agonists)**

Answer :C

15) Which of the following is NOT a primary aim of clinical trials?

- (A) To determine the magnitude of the treatment effect compared to other remedies or placebo.**
- (B) To identify the type of patients in whom the treatment is most valuable.**
- (C) To establish the best method of administering the treatment.**
- (D) To promote the advantage of the treatment and encourage its widespread use.**

Answer :D



16) Which of the following is NOT a common factor that can contribute to poor medication adherence among patients?

- (A) Age
- (B) Complexity of regimen
- (C) Socioeconomic factors
- (D) Adult patients

موقع **

الطب والجراحة

17) A 67-year-old man suffering from terminal cancer started analgesic treatment with an opioid drug. Knowing that tolerance to opioids is pronounced, which of the following drug parameters was most likely increased after a few days of treatment?

- A. Maximal efficacy
- B. Median effective dose
- C. Therapeutic index
- D. Potency
- E. Half-life

موقع **



Answer :B

18) A new β -blocker was tested in healthy volunteers. The cumulative frequency distribution of subjects showing a decrease of 10 bpm in the heart rate was plotted against the log dose. Which of the following drug parameters can be determined from this cumulative frequency distribution?

- A. Receptor affinity
- B. Median effective dose
- C. Therapeutic index
- D. Therapeutic window
- E. Maximal efficacy

موقع **

Answer :B

19) The effect of a new autonomic drug was tested on a healthy volunteer during a clinical trial. The subject was treated with saline or with the drug, and cardiac rate was recorded at rest or after exercise.



The results are reported below

Which of the following terms best defines the tested drug?

- A. Noncompetitive antagonist
- B. Competitive antagonist
- C. Partial agonist
- D. Physiologic antagonist
- E. Full agonist
- F. Chemical antagonist

heading

الطب والجراحة

Answer :C

20) phase 3 in clinical studies in human, one of the following is true?

answer : multi centre comparative studies on large number of patients 250-1000 to establish.....

ading



21) What is the relationship between the half-life ($t_{1/2}$) of a drug and its clearance (CL)?

- a) Directly proportional**
- b) Inversely proportional**
- c) Not related**
- d) Exponentially related**

Answer :B

22) What is bioavailability?

- a) The rate at which a drug is absorbed into the bloodstream.**
- b) The percentage of a drug that reaches the systemic circulation and becomes available for biological effect.**
- c) The volume of distribution of a drug in the body.**
- d) The time taken for the plasma concentration of a drug to decrease by half.**

Answer :B



23) What is the specific antidote for iron poisoning?

- a) Acetylcysteine**
- b) Desferoxamine**
- c) Atropine**
- d) Naloxone**

Answer :B

24) What is the specific antidote for benzodiazepine overdose?

- a) Naloxone**
- b) Flumazenil**
- c) Atropine**
- d) Acetylcysteine**

Answer :B

25) What is the specific antidote for opioid overdose?

- a) Flumazenil**
- b) Naloxone**
- c) Acetylcysteine**
- d) Atropine**



Answer :B

26) A patient with a CYP2C9 deficiency is prescribed warfarin. What should be done to optimize the patient's treatment?

- a) Increase the warfarin dose.
- b) Decrease the warfarin dose.
- c) Maintain the standard warfarin dose.
- d) Discontinue warfarin therapy.

Answer :B

27) Which of the following statements is TRUE regarding first-order kinetics?

- a) A constant amount of drug is eliminated per unit of time.
- b) The half-life ($T_{1/2}$) is not constant.
- c) Steady state concentration (C_{ss}) can never be reached after 4-5 half-lives.
- d) The rate of elimination is directly proportional to the drug's blood concentration.



Answer :D

28) Which of the following is NOT a general principle when using drugs in the elderly?

- a) Start with the lowest effective dose.
- b) Consider polypharmacy and potential drug interactions.
- c) Monitor for adverse drug reactions more frequently.
- d) Tablets may be easier to swallow than elixirs.

Answer :D

29) Which of the following is NOT a common cause of poor medication adherence?

- a) Complex dosing regimens
- b) Adverse drug reactions
- c) High cost of medication
- d) Adult patients

Answer :D



30) Which of the following is NOT a common strategy to prevent medication errors?

- a) Patient communication
- b) Intraprofessional communication
- c) Education and training
- d) Reporting
- e) Increasing the number of medications a patient is taking.

Answer : E

31) Which of the following is the specific drug used to treat malignant hyperthermia?

- a) Succinylcholine
- b) Halothane
- c) Dantrolene
- d) Pancuronium

Answer : C



32) Which of the following best describes a parasympathomimetic drug?

- A) anticholinergic drug**
- B) cholinergic drug**

Answer : A

33) Which type of medication is most effective in relaxing the detrusor muscle of the bladder in a patient with an overactive bladder?

- A) Cholinergic drug**
- B) Adrenergic agonist**
- C) Anticholinergic drug**
- D) Calcium channel blocker**
- E) Beta-blocker**

Answer : A



34)What does the medical abbreviation "PRN" mean?

- A) Twice a day**
- B) As needed**
- C) Every hour**
- D) Before meals**

Answer :B

35) Which of the following drug reactions is considered an idiosyncratic reaction?

- A) Warfarin inducing bleeding**
- B) Aspirin inducing peptic ulcer**
- C) Succinylcholine causing apnea**
- D) Penicillin causing anaphylactic shock**

Answer : D

36)All of the following are common adverse effects of direct-acting cholinergic agents EXCEPT:

- A) Excessive sweating and salivation**
- B) Flushing and hypotension**



- C) constipation
- D) Bronchospasm
- E) Pilocarpine: impaired accommodation to far vision & darkness (also carbachol)

Answer : C

37) Which of the following best describes a drug that produces a characteristic withdrawal syndrome upon discontinuation?

- A) An analgesic
- B) An antibiotic
- C) A drug of abuse
- D) A vitamin supplement

Answer : C

38) A elderly man who has been taking NSAIDs and another medication for a chronic condition has recently been experiencing increased appetite, insomnia, and stomach pain. These symptoms are most likely due to:

- A) A desired therapeutic effect
- B) An allergic reaction



- C) Side effects of the medications
- D) A worsening of his underlying condition

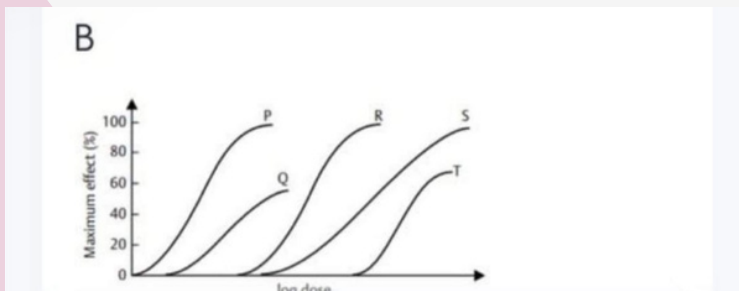
Answer : C

39) Which of the following drugs is NOT known to induce hepatic enzymes?

- A) Carbamazepine
- B) Phenytoin
- C) Rifampin
- D) Cimetidine

Answer : D

40) The figure below depicts the in vitro log dose-response curves of five different drugs (P, Q, R, S, and T).



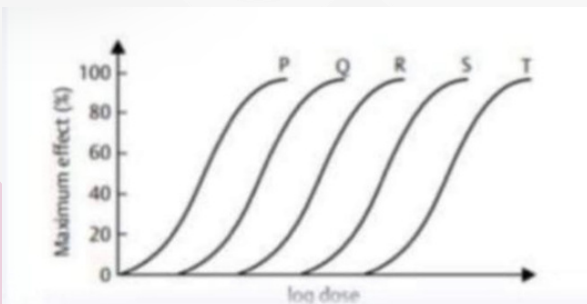
Which of the following pairs of drugs can fully activate the same receptors?



- A. Drugs P and Q
- B. Drugs P and R
- C. Drugs P and S
- D. Drugs Q and T
- E. Drugs Q and S
- F. Drugs R and S

Answer : B

41) The figure below depicts the in vitro log dose response curves of five different drugs (P, Q, R, S, and T) acting on the same receptor. Which of the following drugs has the highest ED50?



- A. Drug P
- B. Drug Q
- C. Drug R
- D. Drug S
- E. Drug T



Answer : E

42) Which of the following best defines the term "half-life" in pharmacology?

- A) The time it takes for a drug to reach its maximum concentration in the body.**
- B) The time it takes for half of a drug dose to be eliminated from the body.**
- C) The time it takes for a drug to produce its therapeutic effect.**
- D) The time it takes for a drug to be completely metabolized.**

Answer : B

