



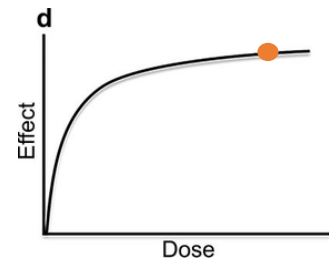
Pharmacology Test Bank

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Lecture 8

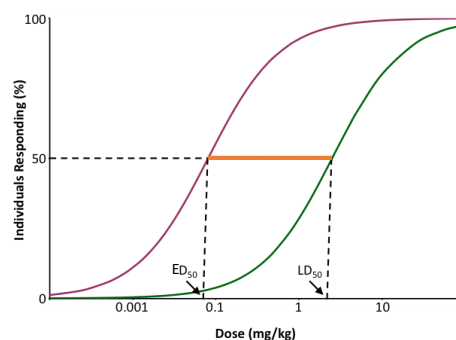
1. The correct couple (receptor, its family) of the following is :
 - A. Nicotinic receptors , enzyme –linked receptors
 - B. Adrenergic receptors , G protein coupled receptors
 - C. Muscarinic receptors , ligand gated channels
 - D. None of above
2. The family which its ligand must be lipid soluble to be able to cross membrane:
 - A. Enzyme- linked receptors
 - B. G protein coupled receptors
 - C. Intracellular receptors
 - D. Ligand gated channels
3. When insulin binds to its receptor it will lead to :
 - A. Tyrosine kinase activation
 - B. Activating 2nd messenger
 - C. Glucose influx
 - D. G protein activation
4. A patient came to the hospital unable to move his arm,after testing him and giving him acetylcholine he still is not able to he is probably has a problem in :
 - A. G protein coupled receptors
 - B. Intracellular receptors
 - C. Tyrosine kinase
 - D. Mutation in Nicotinic receptors
5. We wants to know which 2nd messenger is the best for TSH , after tests we find the best one is :
 - A. DAG
 - B. cAMP
 - C. IP3
 - D. Ca⁺²

6. All about the following curve is true except :



- A. the red spot should be at therapeutic level
 - B. The suitable dose cannot be detect through this curve
 - C. At the red spot the highest possible response to drug is achieved
 - D. This curve represent the graded dose response
7. How can you determine the ED50 from the graded response curve:
- A. By locating the point where the response is zero
 - B. By identifying the point where the response plateaus
 - C. By measuring the maximum response point
 - D. By finding the point where the response is halfway between the maximum and minimum
8. In graded dose response curve, if the response plateaus at high doses, what does this imply about the system's maximum response capability:
- A. The maximum response has been reached
 - B. The system is not responding to the drug
 - C. He response is too low
 - D. The response is linear

****Regarding to the following curve:**



9. **The purple curve at the plateau shows:**

- A. Side effect
- B. Therapeutic window
- C. Best effect
- D. Death of 50% of animals

10. The orange line represents:

- A. Side effect
- B. Therapeutic window
- C. Intrinsic activity
- D. Death of 50% of animals

11. LD50 value shows :

- A. Side effect
- B. Therapeutic window
- C. Best effect
- D. Death of 50% of animals

12. The value at which the dose produce 50% of response is:

- A. 0.001
- B. 1
- C. 0.1
- D. Cannot be detected from the curve

13. If the $LD_{50}=3$ in the curve, TI value:

- A. 3
- B. 0.033
- C. 30
- D. 0.3

14. Which parameter is used to indicate the ability of a drug to produce the desired therapeutic effect relative to a toxic effect :

- A. Potency
- B. Efficacy
- C. Bioavailability
- D. Therapeutic index

15. Therapeutic index is a measure of :

- A. Efficacy
- B. Potency
- C. Affinity
- D. Additive

16. The best measurement of side effects is :

- A. TI
- B. Margin of safety
- C. PI
- D. None of above

17. The best description of LD50-ED50 relationship is :

- A. More ED50 > MORE LD50
- B. MORE ED50 > LESS LD50
- C. The nearer they are from each other is better
- D. The farer they are from each other is better

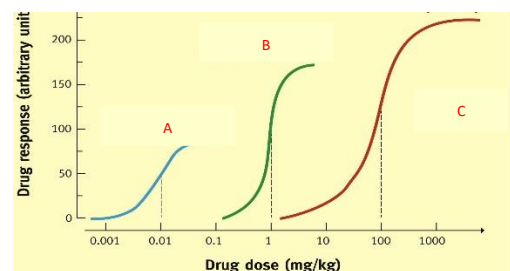
18. We have drug A & drug B , Drug A has: LD50=150 , ED50=50
Drug B has: LD50=100, ED50=25. The correct about them is:

- A. Drug A is safer than drug B
- B. Drug B has higher efficacy than drug A
- C. Drug B has lower TI value than drug A
- D. None of above is true about them

19. One of the following is responsible to assess the safety of a drug :

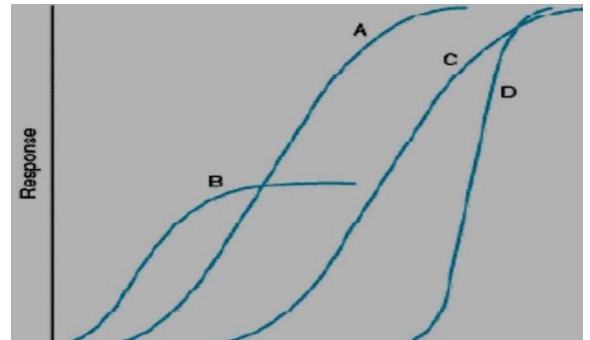
- A. TI
- B. Margin of safety
- C. A+B
- D. PI

20. In the following curve the best description is :



- A. Drug C has the highest potency
- B. Drug B has lower potency than drug A
- C. Drug A is the weakest drug
- D. Drug C is the strongest

21. According to the following curve, the wrong statement is :



- A. Drug C has higher potency than drug D
- B. Drug B has the highest potency
- C. Drug A has higher efficacy than drug B
- D. Drug D has the same efficacy as drug B

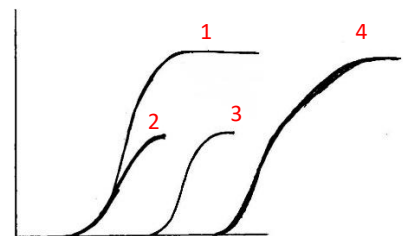
22. If 10 mg of drug X give the same effect of 100 mg of drug Y:

- A. X has same potency of Y
- B. Y has less efficacy than X
- C. X has higher potency than Y
- D. None of above

23. You have four drugs A,B,C and D. according to the following statements order them correctly,

- A lower potency than D
- C has the same intrinsic activity of A
- D has the same potency of C
- B has higher ED50 value than C

1-2-3-4 :



- A. D-C-B-A
- B. A-B-D-C
- C. A-D-C-B
- D. C-D-B-A

24. Regarding to the previous question , the correct statement about the drugs:

- A. B is better than D in potency point
- B. D and C have the same effect
- C. C is the best drug to be given according to its potency
- D. D is the is the most dangerous drug

1	2	3	4	5	6	7
B	C	A	D	C	B	D
8	9	10	11	12	13	14
A	C	B	D	C	C	D
15	16	17	18	19	20	21
A	C	D	A	C	B	D
22	23	24				
C	D	C				