

# Immunology

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Archive

Lecture 5

Medical card .

Name \_\_\_\_\_

Date of b

Gender \_\_\_\_\_

Address \_\_\_\_\_

Date of call \_\_\_\_\_

Corrected By :

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Designed By :

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1. Proper hinge region is not present in which of the following antibody?

Select one:

- a) IgA
- b) IgM
- c) IgG1
- d) IgD
- e) IgG2

Answer: B

2. Isotype switch occur in

Select one:

- a) Paracortical area of lymph node
- b) Cortex of lymph node
- c) Bone marrow
- d) Medulla
- e) Circulation

Answer: B

3. IgM: all are true except

Select one:

- a) Is firstly produced by B-cell
- b) Is most commonly tetrameric
- c) Has the same number of constant domains as IgE
- d) Is a weak bacterial agglutinator
- e) Is the main class of the natural antibodies

Answer: b

4. All are functions of Fc part of antibody except

Select one:

- a) Complement activation
- b) Antigen opsonization
- c) Help in Macrophage phagocytosis
- d) Determine isotype
- e) Binding C1q

Answer: B

5. A Fab fragment:

Select one:

- a) Is produced by pepsin treatment.
- b) Is produced by separation of heavy and light chains.
- c) Binds antigen.
- d) Lacks light chains.
- e) Has no interchain disulfide bonds

Answer: C

5. The effect of AB is determined by?

- A) constant region of Heavy chain
- b) variable region of light chain
- c) constant region of light chain
- d) variable region of heavy chain

Answer:a

7. Antibody structure?

- a) heavy and 2 light chains
- b) Heavy, one light chain
- c) one light, one heavy

Answer: A

(8. Papain enzyme digest the antibody producing

- a.) 2 fab and 1 Fc
- b. )1 fab and 2 Fc
- c.) F(ab)2 and smaller Fc
- d.) F(ab)2 and larger Fc
- e.) F(ab)2 and 2Fc

Answer: A

9. The number of antigens that can bind IgM antibody is

- a) 2
- b) 4
- c) 6
- d) 8
- e) 10

answer:e

10. least abundant immunoglobulin in the adult serum

- A) IgM
- B) IgG
- C) IgA
- D) IgD
- E) IgE

Answer: E

11. EQUIVELANT TO hinge region in IgM : -

Answer: CH2

99) Which of the following statement is true for Fab fragment ? Select one

- a) Formed by proteolysis of antibody by pepsin
- b) Constituted by heavy chains only
- c) Contain complementarity determining regions (CDR)
- d) Activates complement
- e) Bind antibody receptor

Answer:c

12. IGM, all are true except Select one

- a) Is the first antibody formed in immune system
- b) Is the largest antibody
- c) its receptor functions were not defined
- d) have allotype GM
- e) has no hinge region

Answer: D

13. The presence of IgM indicates Select one

- a) Second exposure to same antigen
- b) An acute infection
- c) An allergic reaction is present
- d) A reaction between mother and foetus across the placenta
- e) Activation of memory cells

Answer: B

14. Blocking the binding sites of microbial toxins and viruses so un able to bind cellular receptors is mediated by and is caled Select one:

- a) Antibody-Agglutination
- b) Antibody- Precipitation
- c) Antibody- Neutralization
- d) Antibody- ADCC
- e) Antibody- opsonization

Answer: c

15. Which of the following statements does not apply to igG?. Select one

- A) Appears early in the primary immune response
- B) Neutralizes bacterial toxins
- C) Can fix complement
- D) Crosses the human placenta
- E) Opsonons bacteria

Answer: A

16. Predominant immunoglobulin in external secretions such tears, mucous is Select one

- a) igE
- b) IgM
- b) IgA
- c) igG
- d) IgD

answer: C

17 The subclass of IgG that has lowest serum concentration is Select one:

- a) IgG1
- b) IgG2
- c) IgG3
- d) IgG4
- e) igG5

Answer: D

18.The class of an immunoglobulin Select one:

- a) is determined by Class I and Class II major histocompatibility complex proteins
- b) is determined by the carbohydrate attached to the light chain is
- c) determined by the variable part
- d) is determined by the heavy chain type
- e) Is determined by the J-chain

Answer:d

19.Which of the following antibodies does not have a hinge region?

- A) IgG
- B) IgD
- C)IgM + IgE
- D) IgA
- E) IgE only

answer: c

20.What's the similarity between IgG and IgE?

- A) Structure
- b) Function
- c) Valency
- d) Location

Answer:c

21.Which antibody doesn't transfer through the placenta?

- A) IgG1
- B) IgG2
- C) IgG3
- D) IgG4

Answer:b

22. Ig that does not cross placenta:

- A. IgG1
- B. IgG2
- C. IgG3
- D. IgG4
- E. IgG5

Answer:b

23. The cause of poor opsonization of IgM

- A. Low affinity of IgM
- B. Low avidity of IgM
- C. No receptor on monocytes
- D. IgM can't stimulate immune response
- E. Low concentration of IgM

Answer:c

24. True regarding Fab fragment 2Fab

- A. Generation from papain enzyme
- B. Bind with antigen receptor

Answer:A

25. The immunoglobulin that can't cross to placenta:

- A. IgG1
- B. IgG2
- C. IgG3
- D. IgG4

answer:b

26. The least concentration IgG subclass in blood

- A. IgG1
- B. IgG2
- C. IgG3
- D. IgG4
- E. IgG5

Answer:D

27. The right order of immunoglobulin related to its concentration

- A. IgG. IgA. IgM. IgD. IgE
- B. IgG. IgD. IgM. IgE. IgA

Answer:a

28. The antibodies that lack from hinge region :

- A. IgG
- B. IgD
- C. IgA
- D. IgM&IgE

Answer:D

29. The subclass of IgG that has lowest serum concentration is select one :

- A. IgG1
- B. IgG2
- C. IgG3
- D. IgG4
- E. IgG5

Answer:D

30. Igg with lowest concentration;

- A. Igg1
- B. Igg5
- C. Igg4

Answer:C

31. Which of the following is not true regarding Fc region of antibodies?

- A. Constant region
- B. Binds macrophages receptors
- C. Binding to Ag

answer:c