

# pathology

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Archive

Lecture 6+7

Inflammation 2&3

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1) cachexia: it's a pathologic state characterized by weight loss, muscle atrophy, and anorexia. So what is the responsible for this situation?

- A. TNF
- B. IL-6
- C. PGI<sub>2</sub>

Answer:A

2) Which of the followings related to the lipoxin?

Answer: lipoxin could be mediated of inflammatory reaction.

3) Which of the following produce leukotrienes

- A. 5-lipoxygenase
- B. 12-lipoxygenase
- C. 5-hydroxytryptamine

Answer: A

4) Which of the followings doesn't contribute in hestamin releasing?

- A. C5a
- B. C3a
- C. fever.
- D. binding with antibody

Answer: C

5) Vasoconstriction except:

- A. ThromboxaneA<sub>2</sub>
- B. LeukotrienesA<sub>2</sub>
- C. LeukotrienesD<sub>4</sub>
- D. LeukotrienesE<sub>4</sub>
- E. leukotrienes C<sub>4</sub>

Answer: B

6) Sustained production of TNF contribute to :

- A. Cachexia
- B. anorxia

Answer: A

7) One of the following is true regarding complement system? Select one:

- A. The alternative pathway including attachment to the antibody.
- B. C3b recruits and activates the leukocytes
- C. Phagocytosis is done by the recognition of bound C3b by phagocyte C3b receptor.
- D. It is consider as cell-derived mediator.
- E. The classic pathway including attachment with the microbe.

Answer: C

8) All the following can cause vasoconstriction, except? Select one:

- A. Leukotriene C4.
- B. Leukotriene D4.
- C. Thromboxane A2.
- D. Leukotriene E4.
- E. Thromboxane B2.

Answer: E

9) All the following Mediators are incorrectly paired with their effect, except?

- A. Lipoxin: stimulate neutrophil adhesion
- B. Leukotriene E4: Bronchospasm
- C. Thromboxane: Inhibition of platelet aggregation
- D. Nitric oxide: Stimulation of acute inflammation
- E. TGF-B: initiation of the inflammation

Answer: B

10) One of the following is anaphylatoxin?

- A. C5a
- B. C4a
- C. C5b
- D. C2a
- E. C3b

Answer: A

11) All the following Mediators are correctly paired with their effect, except? Select one:

- A. Reactive Oxygen Species: Destruction of necrotic cells.
- B. Prostacyclin: Inhibition of platelet aggregation.
- C. Nitric Oxide: Stimulation of acute inflammation.
- D. TGF-B: Termination of the inflammation.

Answer: C

12) All of the following are true regarding complement system, except?

- A. The alternative pathway Including attachment with the microbe
- B. C3a recruits and activates the leukocytes
- C. phagocytosis is done by the recognition of bound C5b by phagocyte C5b receptor
- D. it is considered as plasma protein-derived mediator
- E. the classic pathway Including attachment to the antibody

Answer: C

13) All of the Following are considered as cell derived mediator, except? A. Histamine

- B. Bradykinin
- C. Serotonin
- D. nitric oxide
- E. neuropeptides

Answer: B

14) One of the following can cause vasodilation?

- A. Leukotriene B4
- B. Prostaglandin D2
- C. Thromboxane A2
- D. Prostaglandin E4
- E. Thromboxane B2

Answer: B

15) A small child with *Neisseria meningitidis* infection is examined to approve that he has a fever of 39C with 15000 WBCs, what is the least mediator associated with symptoms:

- A. IL1
- B. IL6
- C. TNF
- D. IL12
- E. CXC chemokine

Answer: D

16) 15- A boy plays on bicycle fall down on his knee, then he continues to play 15 minutes and return to home to drink water and taking rest. His mom notices redness on his knee without bruising, this sign is mediated by:

- A. PECAM
- B. Prostaglandins
- C. Histamine
- D. Selectins

Answer: C

17) - Regarding the complement cascade which of the following statements is true?

- A. the alternative pathway is stimulated by antigen-antibody interaction
- B. C5a is split to C5b.
- C. C5a activates the lipooxygenase pathway of arachidonic acid metabolism in neutrophils.
- D. C3bBb inhibits the final common pathway
- E. Microbial surfaces initiate the classical pathway of the complement cascade

Answer: C

18) Cause of pain in appendicitis:

- A. Histamine
- B. Prostaglandin & bradykinin
- C. IL-1
- D. Chemokines
- E. TNF

Answer: B

19) Macrophages secrete:

- A. Serotonin
- B. Bradykinin
- C. PGs and Oxidative free radicals
- D. Integrins
- E. Non of the above

Answer: C

20) Correct match with VLA?

- A. VMAC1
- B. MAC1
- C. IMAC1

Answer: A

21) All of the following correct except

- A. H<sub>2</sub>O<sub>2</sub> respiratory burst
- B. ROS respiratory burst
- C. eNOS killing microbes

Answer: C

22) All the following wrong except:

- A. E selectin expressed in endothelial
- B. E selectins (also called CD62E), expressed on platelets
- C. P-selectin (CD62P), present on platelets only
- D. L-selectin (CD62L), found on the surface of platelets

Answer: A

23) All of the following cause vasodilation except?

- A. LTE4
- B. PGE2
- C. prostacyclin

Answer:A

24) The arachidonic acid metabolite promotes thrombosis?

Ans: TXA2

25) The prostaglandin causes fever and pain?

- A. PGE2
- B. PGE1

Answer :A

26) One of the following causes retraction of endothelial cells :

Histamine

27) What's wrong about LTB4:

- A. recruitment of neutrophils
- B. induce ROS production
- C. Induce production of lysosomal enzymes
- D. production of mucus in respiratory pathway
- E. vasodilatation

Answer:D

28) What attracts leukocytes:

chemokine

29) TNF regulates catabolism?

It is correct

TNF- $\alpha$  promotes cachexia (muscle breakdown)

