

Lymphatic System

(L7 +8)

2012-2013

4. Which of the following statements is NOT CORRECT?

(NOT SURE OF ANSWER)

- (a) Dendritic cells trap antigens on their surface and present them to T or B cells
- (b) Interdigitating dendritic cells are found in the thymus-dependant zones of the lymph nodes and spleen
- (c) Follicular dendritic cells can present an antigen not associated with MHC to a B cell
- (d) The first cells to be activated in a secondary immune response are memory B cells

ANS: D

2015

1- True about blood-thymus barrier – antigens that cross is cause immunological tolerance

2015

2- Wrong about lymph nodes – a heel diabetic ulcer primarily causes enlargement of the vertical group of the superficial inguinal lymph nodes

2015

10- Wrong about lymphocytes – naïve B-cells recirculate tot the sites of inflammation

2017
21-Diffuse lymphatic tissue , choose the WRONG statement:

- a. Peyer's patches are composed of Lymphatic nodules with a thin underlying connective tissue capsule.
- b. M cells are intestinal epithelial cells overlying the diffuse lymphatic tissues.
- c. The basement membrane overlying lymphatic nodules of Peyer's patches is highly porous.
- d. Pharyngeal tonsils are covered by respiratory epithelium.
- e. Palatine tonsils are partly encapsulated and covered by nonkeratinized stratified squamous epithelium.

ANS: A

017
22-The presence of which one of the following cells is of least value in distinguishing spleen from thymus?

- a. Activated B cells.
- b. Fibroblasts in capsule and trabeculae.
- c. Endothelial cells with tight junctions and thick basement membranes.
- d. Reticular epithelial cells.
- e. Perisinusoidal macrophages.

ANS: B

017
32-Lymphatic organs, choose the WRONG statement:

- a. Blood lymphocytes enter the spleen through marginal zone sinuses and enter the lymph nodes through postcapillary venules.
- b. Aggregations of lymphocytes occupy the majority of splenic parenchyma.

c. The variation in color intensity of thymic lobules (cortex and medulla) is attributed to the density of thymocytes.

d. Cells with TCR proteins that bind to MHC-1 will express CD8 proteins at the end of thymic education.

e. PALS area in spleen and paracortex in lymph nodes are considered thymus dependent zones.

ANS: B

017
33-In spleen, the plasma cells are found mainly in?

a. Splenic sinuses of splenic red pulp.

b. Periarteriolar lymphoid sheathes of splenic white pulp.

c. Primary follicles of splenic white pulp.

d. Germinal centers of Malpighian corpuscles.

e. Cords of Billroth of splenic red pulp.

ANS: E

017
34-The presence of which one of the following characteristics is of least value in distinguishing lymph nodes from spleen?

a. High endothelial venules.

b. Afferent lymphatic vessels at capsule.

c. Lymphatic sinuses.

d. Stromal reticular tissue.

e. Cortical lymphatic follicles.

ANS: D

017
36-Which one of these statements is NOT true regarding the blood circulation in the spleen?

a. Arterial blood comes from the splenic artery which breaks up into trabecular arteries.

b. The spleen has a unique 'open' circulation in which blood

is not enclosed by endothelium.

c. The central arteriole terminates in the marginal zone as marginal zone sinuses and forms penicillar arterioles in the red pulp.

d. In closed circulation, blood empties from the sheathed capillaries into the splenic cords and then enters the sinuses through slits in the wall.

e. As an individual trabecular artery emerges from the connective tissue, it is then known as the central arteriole.

ANS: D

! P.P Collected Questions OF HLS Midterm by Dr 017:

23-A tissue that has no lymphatic capillaries

- a. GIT
- b. Respiratory tract
- c. CNS
- d. UGT

answer: c

3-T cells in spleen are mostly presented in:

- a. lymphoid follicles
- b. splenic cords
- c. splenic sinuses
- d. PALS

answer: d

8-Which of the following is covered by stratified squamous

non keratinized epithelium?

- a. palatine tonsils
- b. appendix
- c. Peyer's patch

answer: a

9-Choose the right statement about thymus gland

- a. it has afferent lymph vessels
- b. Thymic epithelial cells form a blood-thymic barrier in the medulla
- c. thymic epithelial cells form the stroma of the gland

answer: c

16- Which of the following is true about blood-thymus barrier?

- a. antigens that cross it cause immunological tolerance
- b. It envelops groups of T cells that are multiplying and maturing in medulla

answer :a

30-Which statement is False about spleen ?

- a. Splenectomy Affect Cell-mediated and Antibody mediated Immune response
- b. People without spleen are more prone to infections with unencapsulated bacteria
- c. It is divided to red and white pulp

answer : b

31-Foreign antigen recognition in the spleen takes place in:

- a. marginal zone sinuses
- b. splenic sinusoids

c. splenic cords

answer : a

32-Not involved directly in an immune response to a foreign antigen:

a. thymus

b. WBCs

c. MALT

answer : a

²⁰¹⁹ 3) T cells in spleen are mostly presented in

A- lymphoid follicles B- splenic cords

C- splenic sinuses D- PALT

ANS: A

⁰¹⁹ 8) which of the following is covered by stratified squamous non keratinized epithelium

A- palatine tonsils B- appendix

C- payers patch

ANS: A

⁰¹⁹ 9) choose the right statement about thymus gland

A- it has afferent lymph vessels

B- Thymic epithelial cells forms a blood thymic barrier in the medulla

C- thymic epithelial cells forms the stroma of the gland

ANS:c

Q37. Activated B lymphocytes in spleen are located in:

Answer: Malpighian corpuscles

Q39. Choose the wrong statement about spleen:

Answer: it contains post capillary venules



"اللَّهُمَّ يَا مَنْ لَا تُضَيِّعُ عِنْدَهُ الْوَدَائِعَ إِنَّ غَزَّةَ فِي وَدَائِعِكَ، فَاحْمِهَا
وَأَهْلَهَا مِنْ كُلِّ شَوْءٍ 🙏".