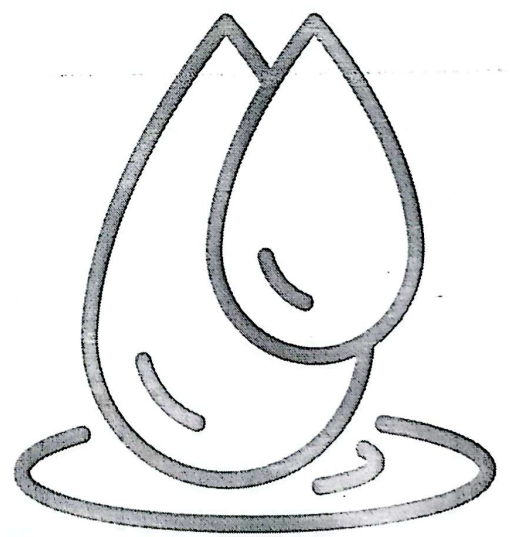
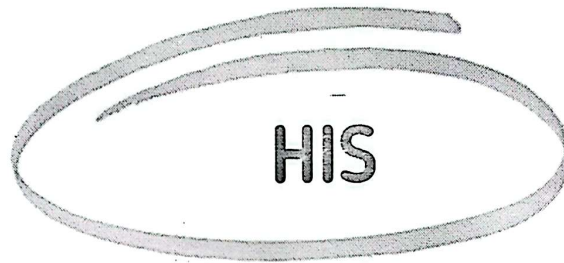


MCQ Micro

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Lecture 2

Dr A G



1	<p>What is immunological tolerance?</p> <ul style="list-style-type: none">A. Response to foreign antigensB. Inability to respond to any antigenC. Unresponsiveness to self-antigensD. Overreaction to allergensE. Deletion of memory cells	C
2	<p>Which site is involved in central tolerance for T cells?</p> <ul style="list-style-type: none">A. Bone marrowB. SpleenC. LiverD. ThymusE. Lymph nodes	D
3	<p>Which mechanism leads to apoptosis of strongly self-reactive lymphocytes?</p> <ul style="list-style-type: none">A. Peripheral toleranceB. Antigenic shiftC. Negative selectionD. Somatic hypermutationE. Clonal expansion	C
4	<p>Tolerance at the T cell level is:</p> <ul style="list-style-type: none">A. AbsentB. Shorter than B cell toleranceC. Equal to B cell toleranceD. Longer than B cell toleranceE. Non-existent after birth	D



5	<p><u>Where does peripheral tolerance occur?</u></p> <ul style="list-style-type: none"> A. In the thymus B. Bone marrow C. Everywhere in the body D. Liver E. Lymph node only 	C
6	<p><u>Which mechanism is NOT involved in central tolerance?</u></p> <ul style="list-style-type: none"> A. Receptor editing B. Negative selection C. Development of regulatory T cells D. Clonal ignorance E. Apoptosis 	D
7	<p><u>What is the function of regulatory T cells in tolerance?</u></p> <ul style="list-style-type: none"> A. Stimulate B cell proliferation B. Enhance inflammation C. Suppress self-reactive immune responses D. Promote memory cell formation E. Trigger apoptosis of macrophages 	C
8	<p><u>Receptor editing primarily occurs in:</u></p> <ul style="list-style-type: none"> A. Macrophages B. NK cells C. CD4+ T cells D. B cells E. Dendritic cells 	D



9	<p><u>Which statement best describes clonal anergy?</u></p> <ul style="list-style-type: none">A. Total deletion of self-reactive cellsB. Ignoring non-self antigensC. Functional inactivation without cell deathD. Apoptosis of all naive cellsE. Overexpression of receptors	C
10	<p><u>What is clonal ignorance?</u></p> <ul style="list-style-type: none">A. Auto-reactive cells are deleted during developmentB. B cells become plasma cellsC. Self-reactive lymphocytes fail to encounter antigenD. T cells form memory clonesE. Antigen is removed by dendritic cells	C
11	<p><u>What happens to T cells that do not receive a co-stimulatory signal during antigen presentation?</u></p> <ul style="list-style-type: none">A. Undergo mitosisB. Become memory cellsC. Become anergicD. Switch to CD8+E. Differentiate into NK cells	C
12	<p><u>Which costimulatory molecules are involved in clonal anergy?</u></p> <ul style="list-style-type: none">A. B7 and CD28B. Fas and FasLC. TCR and MHC ID. IL-2 and IL-10E. CD4 and CD8	A



13	<p><u>Clonal anergy in B cells is associated with downregulation of:</u></p> <ul style="list-style-type: none">A. MHC IIB. CD4C. IgMD. CD40E. IgG	C
14	<p><u>What is the function of regulatory T cells in peripheral tolerance?</u></p> <ul style="list-style-type: none">A. Promote cytokine stormB. Activate dendritic cellsC. Suppress immune responsesD. Kill infected cellsE. Enhance memory T cell formation	C
15	<p><u>What type of peripheral tolerance mechanism depends on antigen sequestration?</u></p> <ul style="list-style-type: none">A. Clonal anergyB. Anti-idiotypicC. Clonal ignoranceD. DeletionE. Suppression	C
16	<p><u>Which condition occurs when self-reactive B cells do not receive T cell help?</u></p> <ul style="list-style-type: none">A. Plasma cell formationB. AnergyC. Isotype switchingD. Regulatory B cell differentiationE. Antibody secretion	B



17	<p>Anti-idiotypic antibodies function by:</p> <ul style="list-style-type: none">A. Activating B cellsB. Promoting T cell memoryC. Blocking antibody-antigen interactionsD. Enhancing phagocytosisE. Degrading MHC molecules	C
18	<p>Autoimmune disease results from:</p> <ul style="list-style-type: none">A. Overproduction of insulinB. Excessive innate immunityC. Failure of self-tolerance mechanismsD. Bacterial invasionE. Hypersensitivity type I only	C
19	<p>Which cells may play a role in the damage seen in autoimmune diseases?</p> <ul style="list-style-type: none">A. Macrophages and eosinophilsB. Mast cells and dendritic cellsC. T lymphocytes and B lymphocytesD. NK cells and fibroblastsE. Platelets and neutrophils	C
20	<p>Which of the following is an example of an organ-specific autoimmune disease?</p> <ul style="list-style-type: none">A. Rheumatoid arthritisB. Systemic lupus erythematosusC. Hashimoto thyroiditisD. SarcoidosisE. Psoriasis	C



21	<p><u>Systemic autoimmune diseases are characterized by:</u></p> <ul style="list-style-type: none">A. Response to one localized antigenB. Attack on blood onlyC. Response against many antigens across the bodyD. Limited to gastrointestinal organsE. Exclusively caused by bacteria	C
22	<p><u>What is one proposed mechanism for autoimmune disease initiation involving hidden antigens?</u></p> <ul style="list-style-type: none">A. Gene editingB. T-cell mutationC. Release of sequestered antigensD. B-cell overactivationE. Viral lysis of CD4 cells	C
23	<p><u>What immune process may fail, allowing auto-reactive T cells to survive?</u></p> <ul style="list-style-type: none">A. Somatic hypermutationB. Isotype switchingC. Negative selectionD. Cytokine releaseE. Class switching	C
24	<p><u>Autoimmune hemolytic anemia is classified as which type of autoimmune disease?</u></p> <ul style="list-style-type: none">A. SystemicB. MetabolicC. AllergicD. Organ-specificE. Blood-related organ-specific	E



25	<p><u>Deficiency of which immune cells can lead to failure of immune regulation in autoimmunity?</u></p> <ul style="list-style-type: none">A. Memory B cellsB. Helper T cellsC. Regulatory T cellsD. Natural killer cellsE. Plasma cells	C
26	<p><u>Which of the following is a non-organ-specific autoimmune disease?</u></p> <ul style="list-style-type: none">A. Type 1 diabetes mellitusB. Hashimoto thyroiditisC. Rheumatoid arthritisD. Autoimmune thrombocytopeniaE. Autoimmune hemolytic anemia	C
27	<p><u>What event may expose hidden intracellular antigens, leading to an autoimmune response?</u></p> <ul style="list-style-type: none">A. IgA productionB. Somatic recombinationC. Tissue trauma or injuryD. DNA methylationE. Complement activation	C
28	<p><u>What is the best example of molecular mimicry leading to autoimmunity?</u></p> <ul style="list-style-type: none">A. Type I diabetesB. Rheumatoid arthritisC. Systemic lupus erythematosusD. Rheumatic feverE. Multiple sclerosis	D

