Cheatography

Patho Unit5 Immune Disease Cheat Sheet by damn via cheatography.com/195477/cs/41590/

Immunity		Type 2 (Antibody-mediated)
Cell-mediated	Humoral	- Incompatible blood transfusion
4H8C	B lymphocyte bind Ag -> Plasma cell -> Ab	Cell destruction by
- 14		1. Opsonisation& Phagocytosis
Type I (Immediate hypersensitivity/ Allergy)		2. Inflammation
- IgE mediated	- Systemic anaphylactic rxn	3. Cellular dysfunction
1st exposure		
Bind Ab to mast cell		Type 3 (Immune complex-mediated)
2nd exposure		- Deposition of insoluble Ag-Ab complexes
Immediate	Late phase	Phase I: Formation of blood-borne complex
1. Sensitized mast	cell recruit eosinophils	II: Deposition in tissues& Activate complement
bind Ag		III: Attract leukocytes& Vessel+Tissue injury
2. Granulation + re mediators	lease same symptoms, last longer	Type4 (T cell-mediated)
Clinical features		Direct CD8+
H&L: Edema, Mucu	Eosinophil damage epithelial cell,	Attack all infected cell w./ recognised Ag
Secretion, Sm spas	sm activate mast cell	Delayed CD4+
	Recruited cell amplify& sustain response w/ additional exposure	Activated T cell release damaging cytokines
Mediators		Autoimmunity (Systemic Lupus Erythematosus)
Primary	Lipid	Ag: Self cells e.g. Nucleus
1. Vasoactive amines	es 1. Leukotrients	Ab: Autoantibodies
(Histamine)		- ANA, Antipospholipid, Anticytoplasmic
2. Enzymes	2. Prostaglandin D2	Clinical expression
3. Proteogycans	3. Platlet-activiating factor	
Cytokines	> TNF,IL-1,Chemokines	Rejection of tissue transplants
Acquired Immunodeficiency syndrome		- After allocrafts
		- Immune system react w./ foreign MHC -> reject& destroy
- Opportunistic infection from HIV (intravenous injection)		- Cell-mediated hypersensitivity & Humoral response
Dind & kill CD4		

- Bind & kill CD4+

- HIV infect CD4+ helper T lymphocytes, Dendritic cell& macrophages

Hallmark

- Loss of 1.Cell-mediated & 2. Humoral immunity

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By damn

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- Inflammation, necrosis & organ destruction