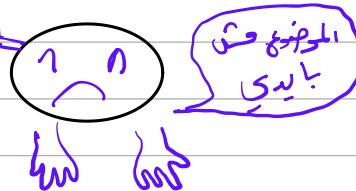
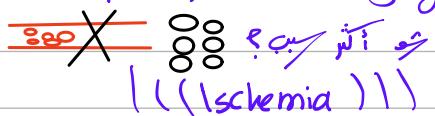


Necrosis \Rightarrow اذیت مميتة

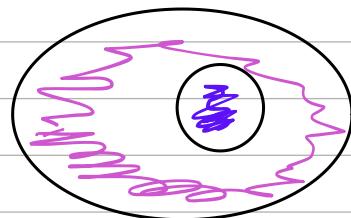


- Uncontrolled cell death, why?

Severe, Rapid, Irreversible injury.



!!! \rightarrow اذى قاتل لا يُصلح \rightarrow نكبات لا يُصلح \rightarrow نكبات لا يُصلح
Culmination of Reversible injuries that cannot be corrected.



Cytoplasm \rightarrow Pink

Eosin \rightarrow بيجي
Eosinophilic

Nucleus \rightarrow Blue

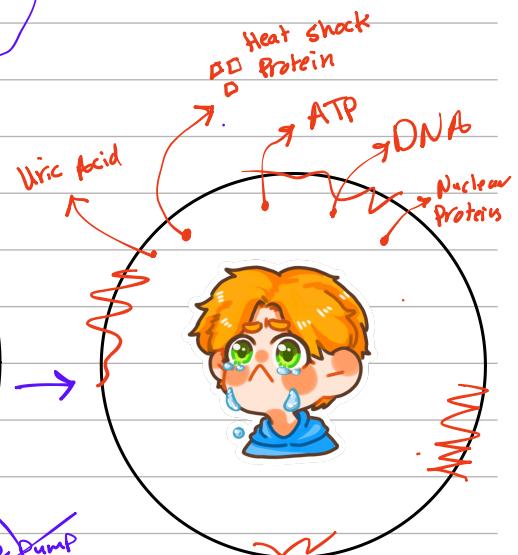
Basophilic \rightarrow Base si. قاتل



ازعاج قابل



Reversible
injury &
Swelling



Necrosis

- Cell membrane Rupture
 - Spillage of content
- \hookrightarrow اذى لا يُصلح \rightarrow نكبات

- في عندي عدة تغيرات تتحقق مع الخلايا في الـ Necrosis ونعم حب المكان

Cytoplasmic changes

1. \downarrow RNA \Rightarrow \downarrow Basophilia
 \uparrow denatured protein \Rightarrow \uparrow Eosophilia
 2. \downarrow Glycogen \Rightarrow Glassy
↑ Pearls
 3. \uparrow Organelle digestion \Rightarrow mottled
Eaten

Nucleic changes

1. Pyknosis \rightarrow Shrinkage + ↑ basophilic hilum

2. Karyorrhexis \rightarrow Fragmentation of pyknotic nucleus

3. Karyolysis \rightarrow ↓ Basophilia of chromatin

DNAase \leftarrow Enzyme

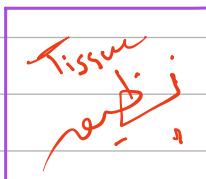
- شاید کل های عجمیم؟
النعام بالخلیفه بعین دنکوہ طائے و امیر

	Mechanism	Sites	Special terms
Coagulative necrosis	<ul style="list-style-type: none"> Protein denaturation → ghost cells ? <p style="text-align: center;">لأنها تخسر المرونة</p>	<ul style="list-style-type: none"> Particularly in myocardium, liver, kidney 	<ul style="list-style-type: none"> Characteristic of hypoxic cell death in all tissues except in the brain Most common type ↑ Preserved tissue structure
Liquefactive necrosis	<ul style="list-style-type: none"> Neutrophils digest cells proteins 	<ul style="list-style-type: none"> Lipid rich tissues → ex: brain 	<ul style="list-style-type: none"> Cerebral infarction
Caseous necrosis	<ul style="list-style-type: none"> Center of granulomas 	 <p style="color: orange; position: absolute; top: 210px; left: 710px;">Ziehl Neelsen Stain</p>	<ul style="list-style-type: none"> Cheese-like on gross morphology. Tuberculosis infection (Mycobacterium) 
Fat necrosis <i>Foamy Macrophages.</i>	<ul style="list-style-type: none"> Degradation of fatty tissue by lipases (released from dead cells) 	<ul style="list-style-type: none"> Pancreas 	<ul style="list-style-type: none"> Chalky appearance (deposits) Acute pancreatitis Trauma to fatty tissues
Fibrinoid necrosis	antigen antibody complexes are deposited in the walls of blood vessels along with fibrin.	<ul style="list-style-type: none"> Walls of blood vessels 	<ul style="list-style-type: none"> Severe hypertension

Removal by WBC + Extra cellular enzymes



Tissue necrosis



Removal

Ca⁺⁺ salts



Tissue dystrophic calcification



Creatine kinase (CK)
Aspartate transaminase (SGOT)
(AST)

