





AFOQ

SUMMARIES
GENERAL PATHOLOGY

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Lecture 1 // Introduction of Pathology

* Disease $\Rightarrow$ Means any disturbance of the structure & function of an organ or tissue.

* Aetiology $\Rightarrow$ $\rightarrow$ ① Predisposing factors العوامل المؤهلة للمرض
 $\rightarrow$ ② Exciting Factors الأسباب المباشرة
 $\rightarrow$ ③ Pathogenesis آلية حدوث المرض
أ - باب المرض

① Predisposing Factors $\Rightarrow$ Age / Sex / occupation / Residence & smoking. عوامل الاستعداد

$\rightarrow$ which help the occurrence of the disease.

② Exciting Factors $\Rightarrow$ direct causes

$\rightarrow$ viruses فيروسات
 $\rightarrow$ bacteria بكتيريا
 $\rightarrow$ parasite طفيليات
 $\rightarrow$ fungi فطريات
 $\rightarrow$ Radiation إشعاع

③ Pathogenesis $\Rightarrow$ Mechanisms

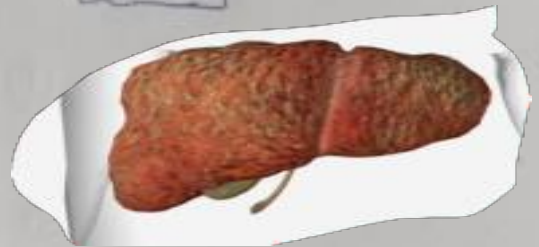


* Pathological Picture :-

↳ 1 Gross/ Macroscopic/ Naked eye examination
or Naked eye appearance

NEA

- ↳ 1 Size
- ↳ 2 Shape.
- ↳ 3 Color
- ↳ 4 weight
- ↳ 5 Borders
- ↳ 6 cut section
- ↳ 7 Consistence.



Soft
↓
as fat
ناعم

Firm
↓
like cartilage
المصراع

hard.
↓
like bone.



↳ 2 Microscopic [histopathology] → التغيرات الخلوية للعضو

↳ Cell ⇒ cytoplasm & nucleus

↳ Stroma ⇒ supportive stroma → الأوعية الدموية والنسيج الضام للعضو

* prognosis ⇒ find Result of the disease [the outcome of disease]

Bad or Good

(Recover) شفاء المريض إكلينيكي

[(complication) مضاعفات]

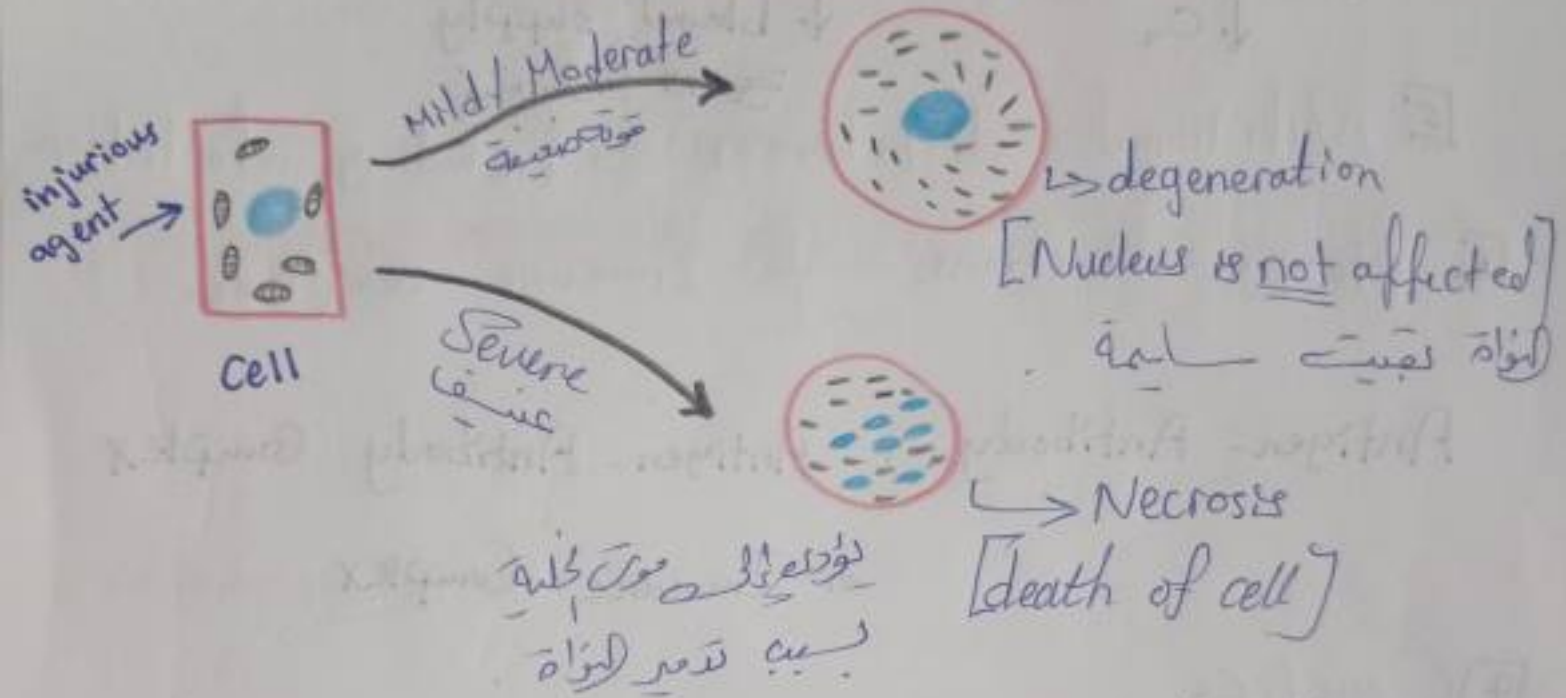
* Complications - undesirable residual effects at the end of the disease.

مضاعفات

end of the disease.

[تأثيرات غير مرغوب فيها في نهاية المرض]

Cell injury & adaptation



1 Injurious agent $\Rightarrow$ Mild/Moderate $\Rightarrow$ degeneration $\Rightarrow$ Reversible
 Nucleus is not affected $\Rightarrow$

2 Injurious Agent $\Rightarrow$ Severe $\Rightarrow$ necrosis [death of cell] $\Rightarrow$ nucleus is affected $\Rightarrow$

Irreversible.

Causes - 1 Bacteria, virus, parasites & fungi

Injurious Agents

2 Chemical toxins

3 Trauma, Radiant energy & heat.

4 Hypoxia & Ischemia -

$\downarrow O_2$

$\downarrow$ blood supply

5 Nutritional disturbances $\Rightarrow$ Including malnutrition

6 Allergic Reactions & Immune complexes

Antigen - Antibody $\Rightarrow$ Antigen - Antibody Complex
or Immune Complex

7 Genetics