

GENERAL PATHOLOGY

Chapter 2: Cell Injury, Cell Death, and Adaptations

(Made by: L. Bhatt)

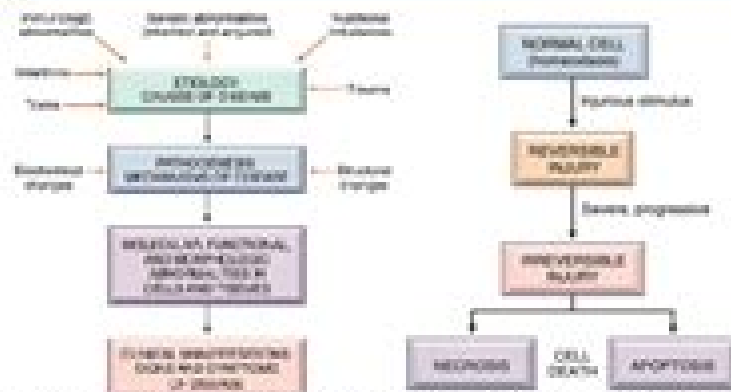
(Ref: Robbins and Cotran 9th Ed.)



INTRODUCTION TO PATHOLOGY

- The field of pathology is devoted to understanding the causes of disease and the changes in cells, tissues, and organs that are associated with disease and give rise to the presenting signs and symptoms in patients.
- **Etiology** - refers to the underlying causes and modifying factors that are responsible for the initiation and progression of disease
 - Refers to why a disease arises
- **Pathogenesis** - refers to the mechanisms of development and progression of disease, which account for the cellular and molecular changes that give rise to the specific functional and structural abnormalities that characterize a particular disease
 - Describes how a disease develops

OVERVIEW OF CELLULAR RESPONSES TO STRESS AND NOXIOUS STIMULI



- The intracellular milieu of cells is normally tightly regulated such that it remains fairly constant, a state referred to as **homeostasis**.
- As cells encounter physiologic stresses or potentially injurious conditions, they can undergo adaptation, achieving a new steady state and preserving viability and function.

- If the adaptive capability is exceeded or if the external stress is inherently harmful or excessive, cell injury develops.
- Within certain limits, injury is reversible, and cells return to their stable baseline.
- If the stress is severe, persistent, or rapid in onset, it results in irreversible injury and death of the affected cells.
- Cell death is one of the most crucial events in the evolution of disease in any tissue or organ.
 - It results from diverse causes, including ischemia, infections, toxins, and immune reactions.
 - It is also a normal and essential process in embryogenesis, the development of organs, and the maintenance of tissue homeostasis.

CAUSES OF CELL INJURY

Most injurious stimuli:

- **Hypoxia and ischemia** - are among the most common causes of cell injury
 - Both deprive tissues of oxygen, and ischemia results in a deficiency of essential nutrients and build-up of toxic metabolites.
 - **Hypoxia** - refers to oxygen deficiency
 - The most common cause of hypoxia is ischemia resulting from an arterial obstruction.
 - Oxygen deficiency also can result from inadequate oxygenation of the blood, as in a variety of diseases affecting the lung, or from reduction in the oxygen-carrying capacity of the blood, as with anemia of any cause, and carbon monoxide (CO) poisoning.
 - **Ischemia** - which means reduced blood supply
- **Toxins** - potentially toxic agents are encountered daily in the environment;

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