

Pathology

Pathology is the study of suffering what happens to tissues/organs of the body in the presence of disease

So

Dysfunction of significant of number of cells in the organ occur

Disorder is that the organ is normal but malfunction exists.

Sickness: The physical and /or mental states of being unwell

Health: wellbeing state

Signs: observal or objective measurable physical manifestation of disease

Symptom: subjective evidence of a disease

Diagnosis: name a disease

Prognosis

Therapy

Etiology: cause of the disease

Pathogenesis: underlying mechanism

Morphology: Gross or microscopic appearance
Of cells and tissues

Cell responses to Stimuli

Cells operate in a very narrow range of physiological parameters

Homeostasis: equilibrium of microenvironmental of the cell:

-chemical, electrolytes, glucose, PH,

-physical: temperature

Adjust their structure and function adapting to their altered environment

Adaptation: adjusting a new situation to preserve viability and function

Stress: any demand on the cell requiring it to adapt

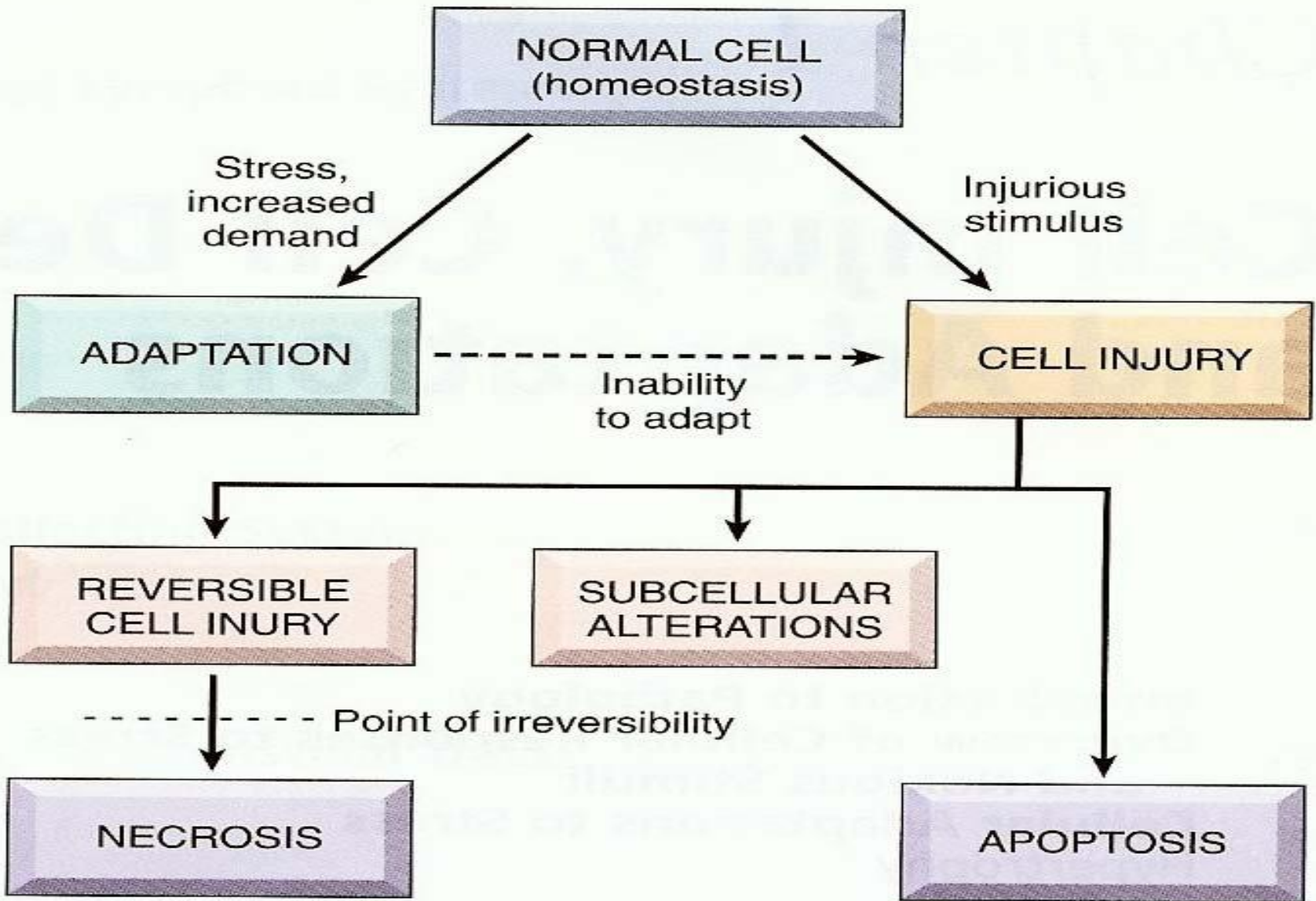
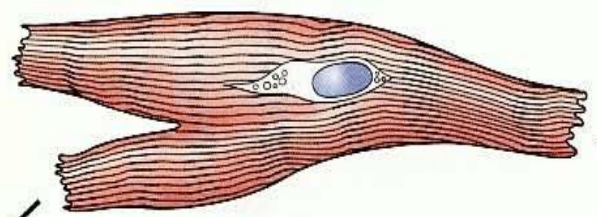


Figure 1-1

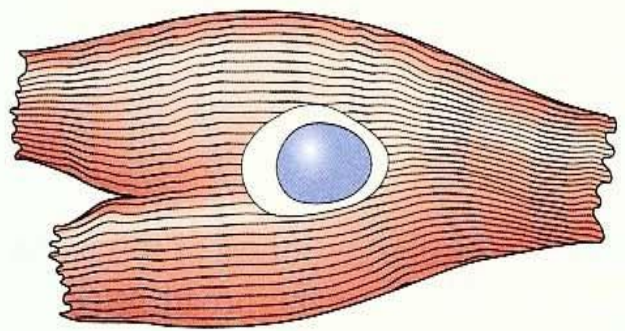
Stages in the cellular response to stress and injurious stimuli.

Normal myocyte



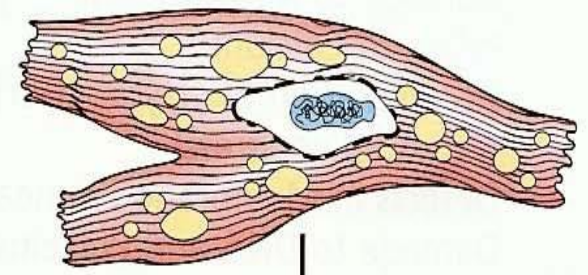
Adaptation:
response to
increased
load

Adapted
myocyte
(hypertrophy)



Cell
injury

Reversibly-injured
myocyte



Cell death

