



SNS COLLEGE OF ALLIED HEALTH SCIENCES
SNS Kalvi Nagar, Coimbatore - 35
Affiliated to Dr MGR Medical University, Chennai



DEPARTMENT OF CARDIAC TECHNOLOGY

COURSE NAME: PATHOLOGY

I YEAR

GENERAL PATHOLOGY:

TOPIC IV: GENERAL FEATURES OF INFLAMMATION



Vascular event



Vascular events

Initial transient vasoconstriction of arterioles.



Persistent progressive vasodilatation.



Elevation of the local hydrostatic pressure.



Increase in vascular permeability.



Transudation of fluid into the extracellular space.



Slowing or stasis of microcirculation.



Leucocytic margination.



Cellular events



Cellular Events

- Leukocyte Recruitment to site of injury
- Extravasation → Sequence of events in the recruitment of leukocytes from the vascular lumen to the extravascular space.
- Leukocyte Activation at the site of injury
 - *Phagocytosis of particles* → Process of engulfment of solid particulate material by the leukocytes (neutrophils and monocytes)



Chemical mediators of inflammation



Classification

- Plasma derived
 - Kinin system
 - Coagulation system
 - Complement system
- Cellular mediators
 - Newly synthesized (prostaglandins, nitric oxide)
 - Performed mediators (histamine, serotonin)

Function

- chemotaxis
- vasodilation















