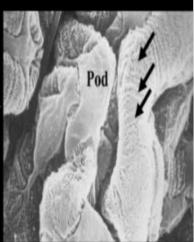


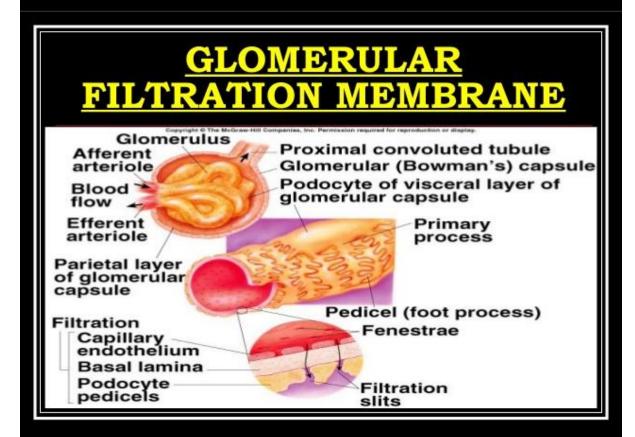
## CHARACTERISTICS OF FILTRATION MEMBRANE

## SITE OF FILTRATION

## Glomerulus

- The site of filtration
- Mechanism is sieve-like
- Layers:
  - foot processes of podocytes.
  - 2 Lamina rara externa or outer cement layer.
  - 3 Lamina densa.
  - 4 Lamina rara interna or inner cement layer.
  - 5 Endothelial cell layer.





## COMPOSITION OF GLOMERULAR FILTRATE (GLOMERULAR ULTRA FILTRATE)

- Ultra filtration. Filtration under pressure.
- Composition same like that of plasma except for proteins & cells.
- Glomerular filtration:
  - Mechanism of producing ultra filtrate under hydrostatic pressure of the blood.
    - Process similar to the formation of tissue fluid by other capillary beds.