

# Oedema/ edema

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### Description

This lecture note on “**Oedema/ edema**” were prepared and delivered to my BVSc.&A.H students studying Veterinary Pathology courses. This course was offered during the academic year 2022-23 in the second professional year at College of Veterinary & Animal Sciences, Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut, Uttar Pradesh, India. I had tried my level best to extract the contents simplify the facts in easy to memories in very short time. Further constructive suggestions to improve this lecture note are always welcome its users on my email and whatsapp.

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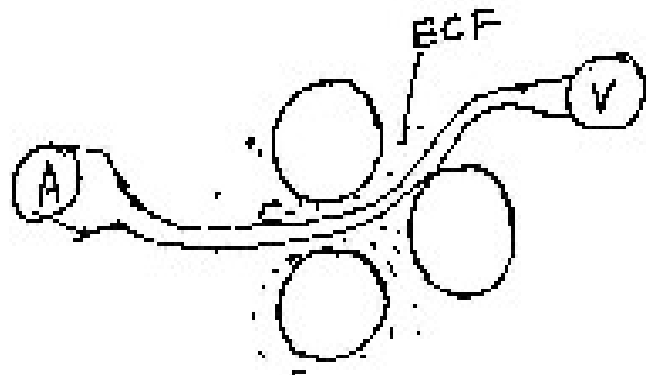
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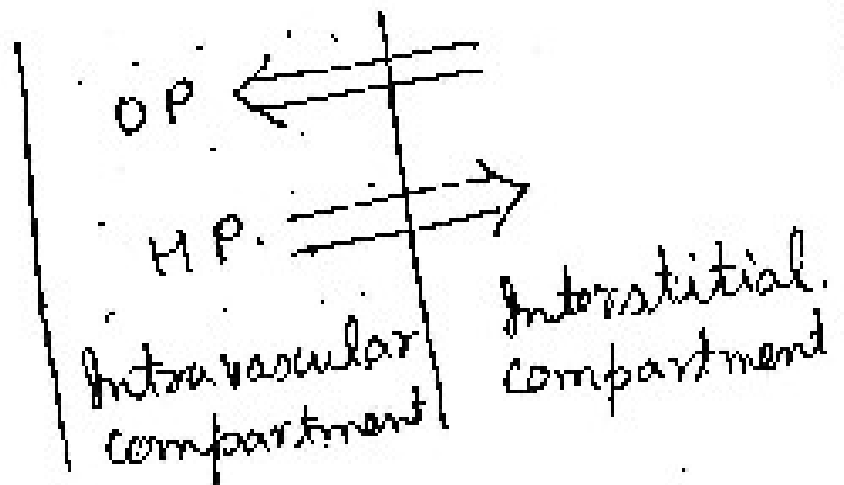
# OEDEMA / EDEMA

Increased accumulation of fluid in ECF (interstitial spaces)



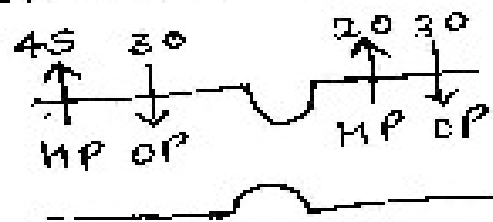
- In Peritoneum  $\leftrightarrow$  Ascites
- Hydroperitoneum
- S/c tissue  $\Rightarrow$  Anasarca
- Pleural cavity  $\Rightarrow$  Hydrothorax
- Tunica vaginalis  $\Rightarrow$  Hydrocele

Oedematous fluid - transudate  $\rightarrow$  Sp. gr.  $< 1.012$   
Inflammation - Exudate



Starling's forces

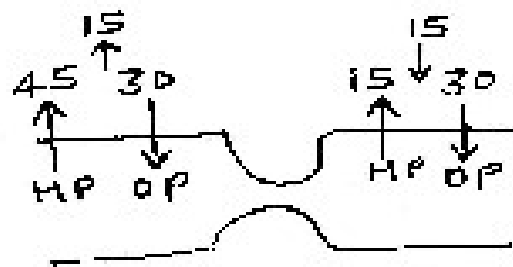
① Increased HP



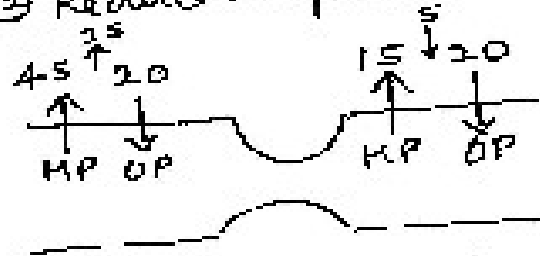
Accumulate OS

eg - CVC

- Cardiac oedema



② Reduced plasma OP

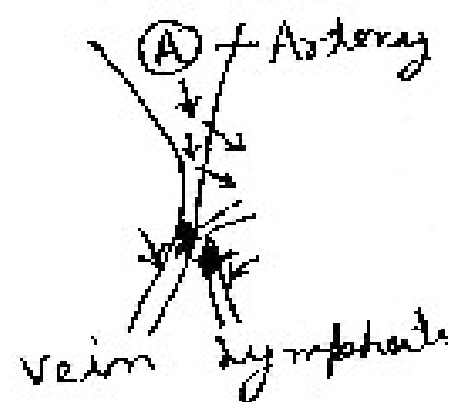


Accumulation of OS

eg - Parasitic ♂

- Anaemia
- Pregnancy
- Renal injury
- Liver ♂
- Malnutrition

③ Lymphatic obstruction



eg Filariasis  
Tumour  
Bandages

Characteristics.

- Abscent pain
- Pits on pressure (Doughy)

May lead to Fibrosis  
HP - Faint Pink

# Lesions

## Grossly

- Swollen, ↑ Weight
- Cold
- Painless
- **Pits on pressure (Doughy)**
- Chronic → Fibrosis

## Microscopic

- H&E : Faint pink
  - Chronic cases: Atrophy & Fibrosis
- ❖ Oedema of Brain & Lungs → Fetal

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