

Edema – balance of forces calculation

Normal capillary fluid balance (lung and peripheral circulation) is due to a close equality between inward & outward osmotic (Π) and hydrostatic (P) forces. i.e.

$$\text{net fluid out} = K[(P_c - P_i) - \sigma(\pi_c - \pi_i)]$$

Case data retrieval

Case data is retrieved from experiments stored in the HUMAN data base. Log in for personalized features, select '[Get a saved experiment](#)' and locate the folder [RespPhysFall08](#) , open it and then, as/if directed to, open the indicated file.

Procedure

Retrieve the Edema case.

- run it.

Explain why the subject has “Feet” swelling given the balance of inward and outward Starling forces.

Present each experimental run, your calculations and any other relevant aspects of the case to the class.