

Mathematical Modelling on Two Layered Blood Flow in Hepatic Capillary During Dengue Disease

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ABSTRACT

In this paper mathematical model has been discussed on blood flow in the hepatic capillary. The structure and function of the capillary have been studied as so to develop a model in tensorial form. Equations have been transformed into a cylindrical form. The final equation has been derived between blood pressure drop and hematocrit. The formation of the table is done by clinical data of dengue patients. Interpretation of this equation is also done graphically.

Keywords: Two phase blood flow, Hematocrit, Blood pressure drop, Dengue disease

