

Handbook of hemorheology and hemodynamics

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HANDBOOK OF HEMORHEOLOGY AND HEMODYNAMICS PDF

These flow properties are the concern of the hemorheologist and they are dependent on the composition of the blood and the properties of its constituents; hence, knowledge of them is vital to any understanding of hemorheology. However, until fairly recently, progress in this branch of science has been relatively slow, primarily due to the absence of reliable hemorheological laboratory instruments. In this chapter, we review the structure-function relationships that determine the mechanical and adhesive properties of RBC and describe some techniques and methods, old and new, for quantifying these important rheological properties.

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RBC properties therefore influence both cell deformability and aggregation. Abstract Time-Varying Flow of Blood in Vivo The most obvious feature of the circulation is the pulse.

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Ciarlet Elsevier, North Holland, New York, 2004 , pp. In the case of leukocytes, attachment is followed by migration through the endothelium, while platelets undergo spreading and an aggregation phase, and act as a surface for coagulation and fibrin deposition.

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It is necessary to know that the hemorheological profile of an animal cannot be judged by a single rheological value, but must be considered as part of the cardiovascular system in which the blood is flowing. This overview is designed to describe the physiology and pathophysiology of hemorheological parameters during the fetal and neonatal period.

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