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International Journal of Biomathematics
 Vol. 8, No. 3 (2015) 1550028 (21 p)
 © World Scientific Publishing Corporation
 DOI: 10.1142/S179352451550028X

Pulsatile blood flow

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The study of pulsatile blood flow in the presence of axial translation has been attempted in this paper. The viscosity, the heart contraction, the velocity gradient in blood flow and the time taken for the acceleration in the artery has been studied. The velocity field has been studied by the Ritz method. The hemodynamic index and computed numerically. The time taken for the acceleration index on these indicators.

Keywords: Stenosis; hematocrit; time; acceleration index.

Mathematics Subject Classification: 78A10

1. Introduction

The clinical empiricism has established the importance of large- and medium-size arteries in the human body.