

## Documents

Saleem, N., Hayat, T., Alsaedi, A.

**A hydromagnetic mathematical model for blood flow of Carreau fluid**

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**Abstract**

This paper constructs a mathematical model for blood flow through an artery with mild stenosis. Constitutive equations for Carreau fluid are employed in the mathematical modeling. Analysis has been carried out in the presence of constant magnetic field. Symmetric and asymmetric shapes of stenosis are taken. Governing flow model is computed for the series solution. The flow quantities of interest, for instance, axial velocity, pressure gradient, pressure drop, impedance and shear stress at the walls of stenotic artery are described for various pertinent parameters entering into the problem. © 2014 World Scientific Publishing Company.

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