



SDI Review Form 1.6

Journal Name:	Journal of Advances in Mathematics and Computer Science
Manuscript Number:	Ms_JAMCS_36131c
Title of the Manuscript:	PERISTALTIC PUMPING AND DISPERSION OF A MHD COUPLE STRESS FLUID WITH CHEMICAL REACTION AND WALL EFFECTS
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



SDI Review Form 1.6

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	This paper needs a lot of English editing. In the abstract, the word “deliberated” isn’t correct. Also, the authors write “couple stress” What is this? Do they mean “coupled stress”? Even if they mean “coupled stress” what is the meaning? There has been recent work on coupled fluid flow and structure objects for biofluidics that the author may want to cite to broaden the importance of this paper. For instance, J.P. Abraham, B.D. Plourde, B. Sun, L.J. Vallez, and C.S. Staniloae, The Effect of Plaque Removal on Pressure Drop and Flowrate Through a Stenotic Lesion, <i>Biology and Medicine</i>, Vol. 8, article no. 1000261, 2015. L.J. Vallez, B. Sun, B.D. Plourde, J.P. Abraham, and C.S. Staniloae, Numerical Analysis of Arterial Plaque Thickness and its Impact on Artery Wall Compliance, <i>J. Cardiovascular Medicine and Cardiology</i>, Vol. 2, pp. 26-34, 2015. B. Sun, L.J. Vallez, D.B. Plourde, J. R. Stark, and J.P. Abraham, Influence of Supporting Tissue on the Deformation and Compliance of Healthy and Diseased Arteries, <i>Journal of Biomedical Science and Engineering</i>, Vol. 8, pp. 490-499, 2015. B.D. Plourde, L.J. Vallez, B. Sun, B.B. Nelson-Cheeseman, J.P. Abraham, Alterations of Blood Flow Through Arteries Following Atherectomy and the Impact on Pressure Variation and Velocity, <i>Cardiovascular Engineering and Technology</i>, Vol. 7, pp. 280-289, 2016. What does “MRI glancing” mean? Please define “dispersion”. Typically dispersion means to diffuse or spread out. Is that how you are using this word? Please recheck equation 2. I think there might be a units error. Is m really mass per unit area or is it mass per unit length? In section 2.1, the first sentence, what does “the scattering condition for the concentration C” mean? Why are you assuming Ubar approximately equals C (just before equation 2.20). The discussion of the results presented in multiple graphs is	



SDI Review Form 1.6

	almost nonexistence. How did you assess accuracy?	
Minor REVISION comments		
Optional/General comments		

Reviewer Details:

Name:	<i>John Abraham</i>
Department, University & Country	<i>University of St. Thomas, USA</i>