



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	Ms_BJMCS_23221
Title of the Manuscript:	Oscillatory Blood Flow in Convergent and Divergent Channels,Part 1: Effects of Pulse Amplitude and Local Constriction Height
Type of the Article	Original Research Articles

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
1. The authors claim that the existing work was built from [8]. In the general solution given by Eq. 48-51 contains the imaginary part (exp (iT)). The authors plot Figures 2-17, but did not mention about the imaginary part exp (iT)). This will become confusion for the readers. Further explanation is requiring how the authors obtain Figures 2-17 using the general solutions. 2. It will be good if the authors could plots at least one graph for the comparison of the existing result and the one in the literature.	The presence of e^{iT} in the problem shows that the flow is pulsating or oscillatory. More so, the computational results obtained in any problems can be of the form $w=a+ib$. It is usual that the approximate graphs showing the flow characteristics can be plotted using the (a) the Real part, (b) Imaginary part or/and (c) a combination of the Real and Imaginary parts organized using the relations: $w = A_o = \sqrt{a^2 + b^2}, \quad \phi = \tan^{-1}\left(\frac{b}{a}\right), \quad \text{and } w = A_o \cos \phi \text{ or } w = A_o \sin \phi$ This explains why the imaginary parts of the solutions are never mentioned in the Fig 2- Fig 17. The focus of this work is not on a comparative approach of the different methods of solutions that can be used to present the problem. For validity of results, we compared some of our results with the findings of [8] , and observed that they are in excellent agreement (See p. 9)