

Review Form 3

Journal Name:	Journal of Advances in Medicine and Medical Research
Manuscript Number:	Ms_JAMMR_120826
Title of the Manuscript:	Morphology of Adherent Cells of the Line Vero Cultivated in a Three-Dimensional Environment Inside a Microfluidic Device Differs from their Morphology when Cultivated in Monolayers
Type of the Article	Short communication

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write few sentences regarding the importance this manuscript for scientific community. Why do you like (or dislike) this manuscript? Minimum 3-4 sentences may be required for this part.	Rendering 2D cell models into 3D models will provide a more accurate insight into intercellular interactions and signalling. However, certain aspects were uncertain. <ul style="list-style-type: none"> • Frequency of the change of the culture medium to negate the accumulation of increased amount of metabolic waste. • Effect on cell morphology due to fluid stress 	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes. The title fully captures the objectives of the article.	
Is the abstract of the article comprehensive? Do you suggest addition (or deletion) of some points in this section? Please write your suggestions here.	The abstract of the article was comprehensive.	
Are subsections and structure of the manuscript appropriate?	Yes	
Please write few sentences regarding the scientific correctness of this manuscript. Why do think that this manuscript is scientifically robust and technically sound? Minimum 3-4 sentences may be required for this part.	The article had a clear research question and appropriate methodology. The methodology adhered to the established protocols. Statistical analysis was appropriate with proper evaluation of data.	
Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.	Yes	
Minor REVISION comments Is language/English quality of the article suitable for scholarly communications?	Yes. The overall language was easy and comprehensible.	
Optional/General comments 2D monolayer have a stable cell base due to their adherence to the substrate. But since the 3D model has the hydrogel flowing around, won't it affect the cell morphology due to mechanical stress ? There is going to be a significant increase in the accumulation of the metabolic waste products due to the 3D nature of the model. This raises the question as to the frequency of the change of the culture medium and if the frequency is high, will it affect the morphology of the cells? How to visualise the 3D morphology of the cells?		

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PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Sujith Sri Surya R
Department, University & Country	SRM Medical College, Hospital and Research Centre, India