

Review Form 1.7

Journal Name:	International Journal of Research and Reports in Gynaecology
Manuscript Number:	Ms_IJRRGY_114726
Title of the Manuscript:	EFFECTS OF VITAMIN D SUPPLEMENTATION ON GENE EXPRESSION IN PATIENTS WITH GESTATIONAL DIABETES MELLITUS
Type of the Article	Research

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:

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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)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<ul style="list-style-type: none"> • Appropriately written the paper. • Suitable for publication. • Comprehensively provided the abstract. • The whole manuscript is scientifically correct. • Need to add the suggested references. <p>Report: After revising the suggested comments, this paper can be published in the International Journal of Research and Reports in Gynaecology</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>General comments:</p> <ul style="list-style-type: none"> • The study reveals significant alterations in gene expression related to gestational diabetes mellitus (GDM), including HNF4A, IRS1, TCF/L2, and ADIPOQ, offering insights into the condition's underlying mechanisms. • Vitamin D supplementation influences gene expression, downregulating HNF4A, IRS1, and TCF/L2, while upregulating ADIPOQ. This suggests a potential role for vitamin D in managing GDM through gene regulation. <p>Need to address the following comments:</p> <ul style="list-style-type: none"> • The study lacks an in-depth exploration of the molecular mechanisms underlying the observed gene expression changes, warranting further investigation for a comprehensive understanding. In this context, authors need to provide 1-2 sentences in the main text. • With 180 participants over 8 weeks, the study may not fully capture the long-term effects of vitamin D supplementation on GDM. Larger samples and longer durations would enhance the study's reliability and generalizability. In this regard, the authors need to explain in the discussion section. • Some paragraphs are missing suitable references, so we need to cite the suggested references in the appropriate sections. • After reference number 2, need to cite the following reference: Kayarohanam S, Subramaniyan V, Janakiraman AK, Kumar SJ. Antioxidant, antidiabetic, and antihyperlipidemic activities of dolichandrone atrovirens in albino Wistar rats. Research Journal of Pharmacy and Technology. 2019;12(7):3511-6. • After reference number 4, need to cite the following references: Zahoor I, Singh S, Behl T, Sharma N, Naved T, Subramaniyan V, Fuloria S, Fuloria NK, 	

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	<p>Bhatia S, Al-Harrasi A, Aleya L. Emergence of microneedles as a potential therapeutics in diabetes mellitus. <i>Environmental Science and Pollution Research</i>. 2021;1-21.</p> <p>Gothwal SK, Goyal K, Barjatya HC, Bhakar BL, Dahiya R, Singh Y, Saini TK, Agrawal M, Subramaniyan V, Gupta G. Estimating the correlation between TYG and CIMT in non-diabetic adult patients. <i>Obesity Medicine</i>. 2022;35:100460.</p> <ul style="list-style-type: none">• After reference number 5, need to cite the following reference: Kumarasamy V, Anbazhagan D, Subramaniyan V, Vellasamy S. Blastocystis sp., parasite associated with gastrointestinal disorders: an overview of its pathogenesis, immune modulation and therapeutic strategies. <i>Current pharmaceutical design</i>. 2018;24(27):3172-5.• After reference number 8, need to cite the following references: Ramli S, Sim MS, Guad RM, Gopinath SC, Subramaniyan V, Fuloria S, Fuloria NK, Choy KW, Rana S, Wu YS. Long noncoding RNA UCA1 in gastrointestinal cancers: molecular regulatory roles and patterns, mechanisms, and interactions. <i>Journal of oncology</i>. 2021 Apr 10;2021:1-5. Sharma PK, Fuloria S, Ali M, Singh A, Kushwaha SP, Sharma VK, Subramaniyan V, Fuloria NK. Isolation of new phytometabolites from <i>Alpinia galanga</i> wild rhizomes. <i>Pakistan Journal of Pharmaceutical Sciences</i>. 2021 Jul 1;34(4).• After reference number 10, need to cite the following reference: Kaur R, Sood A, Kanotra M, Arora S, Subramaniyan V, Bhatia S, Al-Harrasi A, Aleya L, Behl T. Pertinence of nutriments for a stalwart body. <i>Environmental Science and Pollution Research</i>. 2021;28(39):54531-50.• After reference number 12, need to cite the following references: Chinnasamy V, Subramaniyan V, Chandiran S, Kayarohanam S, Kanniyar DC, Velaga VS, Muhammad S. Antiarthritic activity of <i>Achyranthes aspera</i> on formaldehyde-induced arthritis in rats. <i>Open access Macedonian journal of medical sciences</i>. 2019;7(17):2709. Akhlaq M, Azad AK, Fuloria S, Meenakshi DU, Raza S, Safdar M, Nawaz A, Subramaniyan V, Sekar M, Sathasivam KV, Wu YS. Fabrication of tizanidine loaded patches using flaxseed oil and coriander oil as a penetration enhancer for transdermal delivery. <i>Polymers</i>. 2021;13(23):4217.• After reference number 14, need to cite the following reference: Lum PT, Sekar M, Gan SH, Jeyabalan S, Bonam SR, Rani NN, Ku-Mahdzir KM, Seow LJ, Wu YS, Subramaniyan V, Fuloria NK. Therapeutic potential of mangiferin against kidney disorders and its mechanism of action: A review. <i>Saudi Journal of Biological Sciences</i>. 2022;29(3):1530-42.• After reference number 16, need to cite the following references: Bhat AA, Thapa R, Goyal A, Subramaniyan V, Kumar D, Gupta S, Singh SK, Dua K, Gupta G. Curcumin-based nanoformulations as an emerging therapeutic strategy for inflammatory lung diseases. <i>Future Medicinal Chemistry</i>. 2023;15(7):583-6. Subramanian A, Tamilanban T, Alsayari A, Ramachawolran G, Wong LS, Sekar M, Gan	
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	<p>SH, Subramaniyan V, Chinni SV, Izzati Mat Rani NN, Suryadevara N. Trilateral association of autophagy, mTOR and Alzheimer's disease: potential pathway in the development for Alzheimer's disease therapy. <i>Frontiers in Pharmacology</i>. 2022;13:1094351.</p> <ul style="list-style-type: none"> • After reference number 19, need to cite the following references: Subramaniyan V, Shaik S, Bag A, Manavalan G, Chandiran S. Potential action of Rumex vesicarius (L.) against potassium dichromate and gentamicin induced nephrotoxicity in experimental rats. <i>Pakistan journal of pharmaceutical sciences</i>. 2018;2:509-16. <p>Singh Y, Fuloria NK, Fuloria S, Subramaniyan V, Meenakshi DU, Chakravarthi S, Kumari U, Joshi N, Gupta G. N-terminal domain of SARS CoV-2 spike protein mutation associated reduction in effectivity of neutralizing antibody with vaccinated individuals. <i>Journal of Medical Virology</i>. 2021 Oct;93(10):5726.</p> <p>Report: After revising the suggested comments, this paper can be published in the International Journal of Research and Reports in Gynaecology</p>	
<p>Optional/General comments</p>	<p>Nil</p>	

PART 2:

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

Reviewer Details:

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