## Review Form 3

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| Journal Name: | **Asian Journal of Pediatric Research** |
| Manuscript Number: | **Ms_AJPR_123343** |
| Title of the Manuscript: | **Unravel the Enigma of Kawasaki Disease: Groping in the Dark.** |
| Type of the Article | |

## Review Form 3

**PART 1: Review Comments**

| **Compulsory** REVISION comments | **Reviewer's comment** | **Author's Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
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| **Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.** | **Kawasaki disease is a life-threatening disease in children since it cause coronary artery disease in young.<br>Review on KD is always welcome with different views of the author** | |
| **Is the title of the article suitable?<br>(If not please suggest an alternative title)** | **As per the choice of author and it is fine** | |
| **Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.** | **General statement written as 3 rd page** | |
| **Are subsections and structure of the manuscript appropriate?** | **Appropriate especially focussing etiological concept** | |
| **Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.** | **Few additions may be needed . given at the bottom the page** | |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **1.A swine model of horse serum-induced coronary vasculitis: an implication for Kawasaki disease.<br>Philip S, Lee WC, Liu SK, Wu MH, Lue HC.Pediatr Res. 2004 Feb;55(2):211-9. doi: 10.1203/01.PDR.0000104151.26375.E5. Epub 2003 Nov 19.<br>2. An update on understanding the pathophysiology in Kawasaki disease: Possible role of immune complexes in coronary artery lesion revisited.<br>Philip S, Jindal A, Krishna Kumar R.Int J Rheum Dis. 2023 Aug;26(8):1453-1463. doi: 10.1111/1756-185X.14816. Epub 2023 Jul 11.<br>3. Kawasaki Disease: The Role of Immune Complexes Revisited.<br>Menikou S, Langford PR, Levin M.Front Immunol. 2019 Jun 12;10:1156. doi: 10.3389/fimmu.2019.01156. eCollection 2019.PMID: 31263461 Free PMC article. Review<br>3. Histopathological evaluation of horse serum-induced immune complex vasculitis in swine: implication to coronary artery lesions in Kawasaki disease.<br>Philip S, et al. Pediatr Neonatol. 2014. PMID: 24491664** | |

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| Minor REVISION comments<br><br>**Is the language/English quality of the article suitable for scholarly communications?** | Yes. Editorial group can check spells with newly available software | |
| **Optional/General** comments | Manuscript reviewed in detail.<br>Points to be taken up and revise with following points<br><br>With my swine model study , clearly stated that KD is circulating immune complex vasculitis since my study was with horse serum induced type III sensitive reaction (ped research) mimicking KD like syptoms.<br>1.A swine model of horse serum-induced coronary vasculitis: an implication for Kawasaki disease. Philip S, Lee WC, Liu SK, Wu MH, Lue HC.Pediatr Res. 2004 Feb;55(2):211-9. doi: 10.1203/01.PDR.0000104151.26375.E5. Epub 2003 Nov 19.<br>2. An update on understanding the pathophysiology in Kawasaki disease: Possible role of immune complexes in coronary artery lesion revisited.<br>Philip S, Jindal A, Krishna Kumar R.Int J Rheum Dis. 2023 Aug;26(8):1453-1463. doi: 10.1111/1756-185X.14816. Epub 2023 Jul 11.<br>3. Kawasaki Disease: The Role of Immune Complexes Revisited.<br>Menikou S, Langford PR, Levin M.Front Immunol. 2019 Jun 12;10:1156. doi: 10.3389/fimmu.2019.01156. eCollection 2019.PMID: 31263461 Free PMC article. Review<br>3. Histopathological evaluation of horse serum-induced immune complex vasculitis in swine: implication to coronary artery lesions in Kawasaki disease.<br>Philip S, et al. Pediatr Neonatol. 2014. PMID: 24491664<br><br>Above studies clearly confirmed KD is an immune complex vasculitis. Hence any viral or bacterial or any unknown causative agents<br>may produce KD. During SARS COV2, many KD like presentations observed. Once criteria are fulfilled, we advise, to treat as KD where KD is<br>caused by RNA virus. If criteria not fulfilled, no need of aspirin for 6-8 week.<br><br>60% of covid 19 may produce myocarditis will be confirmed by rising titre of N_pro BNP, and can be treated with Methyl pred.<br>In KD also sometimes we give MPIV pulse therapy will subside the symptoms.<br><br>Writings on DR T Kawasaki and aetiology is fine<br>Biomarker. NPROBNP is useful to identify myocarditis. Because 90% of KD will have myocarditis before coronary arteritis occur.<br>MMP can be reduced by IVIG and adding Doxicyclin also (studies available)<br>Role of superantigen , it is a fact sometimes we had seen very high titre of ASO (>3000iu)<br><br>Discussion<br>Please change the dosage of Aspirin to 30-80mg/kg bwt (anti-inflammatory) till the child become afebrile for another 48hrs.<br>(80mg in USA/30mg in Japan, 60mg in KD society of India) and then 5mg /kg/bwt (antiplatelet) x total 8weeks.<br>ASA will continue in the presence of coronary artery disease. Please give reference for ASA and IVIG (AHA guidelines) | |

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**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)* |
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| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* | |

**Reviewer Details:**

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| Name: | **Saji Philip** |
| Department, University & Country | **India** |