Review Form 1.7

Journal Name:	**Asian Journal of Pediatric Research**
Manuscript Number:	**Ms_AJPR_106067**
Title of the Manuscript:	**Research progress on the role of inflammation in Kawasaki disease**
Type of the Article	

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Review Form 1.7

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 **1. Is the manuscript important for scientific community?** (Please write few sentences on this manuscript) **2. Is the title of the article suitable?** (If not please suggest an alternative title) **3. Is the abstract of the article comprehensive?** **4. Are subsections and structure of the manuscript appropriate?** **5. Do you think the manuscript is scientifically correct?** **6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.** **(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)**	**Yes, the manuscript is important.** **Yes** **Yes** **Yes** **The sentences must be re-written / quality must be improved by using scientific words than common language** **Yes, sufficient** **Grammar mistakes all over the article needs to be corrected**	
Minor REVISION comments **1. Is language/English quality of the article suitable for scholarly communications?**	yes	
Optional/General comments	Increase the introduction part. Adding a separate Discussion part could increase the value of the article. Correct all the vocabulary errors. Grammar mistakes below must be corrected. 1. Conclusion: Through comprehensive analysis, we conclude that _inflammatory response is the main process of vascular damage in Kawasaki disease, especially the NLRP3 inflammasome plays	

	an important role.However, the etiology and pathogenesis of KD are very complex, and inflammation is only one of the manifestations, the specific details are still not fully understood.In this paper, we will review some of the major concepts and recent views on the role of inflammation in Kawasaki disease. The definite article seems necessary before “inflammatory.” 2. Conclusion: Through comprehensive analysis, we conclude that inflammatory response is the main process of vascular damage in Kawasaki disease, especially the NLRP3 inflammasome_ plays an important role.However, the etiology and pathogenesis of KD are very complex, and inflammation is only one of the manifestations, the specific details are still not fully understood.In this paper, we will review some of the major concepts and recent views on the role of inflammation in Kawasaki disease. Rewrite this by inserting “, which” after “inflammasome.” 3. Conclusion: Through comprehensive analysis, we conclude that inflammatory response is the main process of vascular damage in Kawasaki disease, especially the NLRP3 inflammasome plays an important role.However, the etiology and pathogenesis of KD are very complex, and inflammation is only one of the manifestations, the specific details are still not fully understood.In this paper, we will review some of the major concepts and recent views on the role of inflammation in Kawasaki disease. Rephrase this portion for improved readability. 4. Conclusion: Through comprehensive analysis, we conclude that inflammatory response is the main process of vascular damage in Kawasaki disease, especially the NLRP3 inflammasome plays an important role.However, the etiology and pathogenesis of KD are very complex, and inflammation is only one of the manifestations_, the specific details are still not fully understood.In this paper, we will review some of the major concepts and recent views on the role of inflammation in Kawasaki disease. Rewrite this by inserting “. However” after “manifestations.” 5. Conclusion: Through comprehensive analysis, we conclude that inflammatory response is the main process of vascular damage in Kawasaki disease, especially the NLRP3 inflammasome plays an important role.However, the etiology and pathogenesis of KD are very complex, and inflammation is only one of the manifestations, the specific details are still not fully understood.In this paper, we will review some of the major concepts and recent views on the role of inflammation in Kawasaki disease. Rephrase this portion for readability. Replacement suggestion: understood 6. Conclusion: Through comprehensive analysis, we conclude that inflammatory response is the main process of vascular damage in Kawasaki disease, especially the NLRP3 inflammasome plays an important role.However, the etiology and pathogenesis of KD are very complex, and inflammation is only one of the manifestations, the specific details are still not fully understood.In this paper, _we will review some of the major concepts and recent views on the role of inflammation in Kawasaki disease. Insert a suitable conjunction after the comma to fix the comma splice error. Replacement suggestion: and 7. Conclusion: Through comprehensive analysis, we conclude that inflammatory response is the	

	main process of vascular damage in Kawasaki disease, especially the NLRP3 inflammasome plays an important role.However, the etiology and pathogenesis of KD are very complex, and inflammation is only one of the manifestations, the specific details are still not fully understood.In this paper, we will review some of the major concepts and recent views on the role of inflammation in Kawasaki disease. Delete “will” before the verb “review.” 8. Kawasakidisease (KD) is a common childhood vasculitis that tends to occur in children under 5 years of age. Consider deleting “childhood.” 9. In the second stage, coronary aneurysms may develop due to proliferative inflammation of the intima and damage to _smooth muscle cells and elastic fibers in the The definite article seems necessary before “smooth.” Replacement suggestion: the 10. In the second stage, coronary aneurysms may develop due to proliferative inflammation of the intima and damage to smooth muscle cells and elastic fibers in the Consider deleting “in” in this context. 11. medium.Again, this infiltration is mixed and includes lymphocytes, monocytes, macrophages, plasma cells, and fibroblasts [3]. Use “Again” instead of “medium.Again” in this context. 12. Abnormal activation of immunoactive cells such as macrophages, monocytes and lymphocytes is the main characteristic of KD.These cells secrete various Rephrase this portion for improved readability. 13. inflammatory cytokines and chemokines such as IL-1, TNF-α, etc., thereby Consider deleting “, etc.” in this context. 14. causing vasculitis of endothelial cells [5]. The verb usage seems incorrect; use “causes” instead. 15. causing vasculitis of endothelial cells [5]. Use “in” instead of “of” in this context. 16. causing vasculitis of _endothelial cells [5]. The definite article seems necessary before “endothelial.” 17. As a natural barrier between the circulatory system and the vascular wall, vascular endothelial cells play a vital role in maintaining the normal function of blood vessels.Studies have shown that endothelial cell injury, including inflammation and apoptosis, is the main pathological mechanism of KD [6]. Consider deleting “As a natural barrier between the circulatory system and the vascular wall ,” here.	

	18. As a natural barrier between the circulatory system and the vascular wall, vascular endothelial cells play a vital role in maintaining the normal function of blood vessels.Studies have shown that endothelial cell injury, including inflammation and apoptosis, is the main pathological mechanism of KD [6]. Rephrase this portion for readability. Replacement suggestion: vessels as a natural barrier between the circulatory system and vascular wall, and 19. shown that the levels of TNF-α released by macrophages and monocytes in the serum of KD patients are significantly higher, which plays a facilitating role in inducing coronary artery inflammation and promoting the development of coronary artery aneurysms [10]. The verb usage seems incorrect; use “showed” instead. 20. However, stimulating the production of inflammatory cytokines is achieved by activating inflammasome. Rephrase this portion for readability. Replacement suggestion: stimulation 21. However, stimulating the production of inflammatory cytokines is achieved by activating inflammasome. Replace “cytokines” with “cytokine production” if appropriate in this context. 22. However, stimulating the production of inflammatory cytokines is achieved by activating _inflammasome. The definite article seems necessary before “inflammasome.” 23. Nod-like receptor protein 3 (NLRP3) activation is the key of inflammatory activation in typical inflammatories.There was a correlation between NLRP3 and tongue-associated speck-like protein, apoptosis-associated speck-like protein,ASC), cysteinyl aspartate-specific proteases-1 (caspase-1) containing cysteine combined to form inflammatory bodies. Use “to” instead of “of” in this context. 24. Nod-like receptor protein 3 (NLRP3) activation is the key of inflammatory activation in typical inflammatories.There was a correlation between NLRP3 and tongue-associated speck-like protein, apoptosis-associated speck-like protein,ASC), cysteinyl aspartate-specific proteases-1 (caspase-1) containing cysteine combined to form inflammatory bodies. Rephrase this portion for readability. Replacement suggestion: inflammatories, and there is 25. Nod-like receptor protein 3 (NLRP3) activation is the key of inflammatory activation in typical inflammatories.There was a correlation between NLRP3 and tongue-associated speck-like protein, apoptosis-associated speck-like protein,ASC), _cysteinyl aspartate-specific proteases-1 (caspase-1) containing cysteine combined to form inflammatory bodies. To improve readability, insert “and” before “cysteinyl.” 26. By regulating caspase-1 activation,Promote the maturation and	

	The verb usage seems incorrect; use “promoting” instead. 27. By regulating caspase-1 activation,Promote the maturation and Delete the definite article before “maturation.” 28. release of inflammatory factors such as IL-1β and IL-18, and play a The verb (“play”) does not seem to agree with the subject in number. 29. pro-inflammatory role [11]. The plural form of “role” should be used here. 30. In addition, _activation of atypical inflammatories has been reported to be associated with caspase-4 or caspase-5-dependent The definite article seems necessary before “activation.” 31. pyrodeath, which is known to be induced by intracellular lipopolysaccharide (LPS) in Gram-negative bacteria [12,13]. Consider deleting “, which” in this context. 32. pyrodeath, which is known to be induced by intracellular lipopolysaccharide (LPS) in Gram-negative bacteria [12,13]. The plural form of “lipopolysaccharide” should be used here. Replacement suggestion: lipopolysaccharides 33. At the same time, the activation of caspase-4/5 also induced typical NLRP3 inflammasome.mRNA levels of TIFA, NLRP3, CASP1, CASP4, CASP5 and IL1β were significantly Delete the definite article before “activation.” 34. At the same time, the activation of caspase-4/5 also induced typical NLRP3 inflammasome.mRNA levels of TIFA, NLRP3, CASP1, CASP4, CASP5 and IL1β were significantly The verb usage seems incorrect; use “induces” instead. 35. increased in acute and convalessive KD patients.Therefore, both NLRP3/ Caspase-1-dependent typical inflammatories and Caspase-4/5-dependent atypical inflammatories are involved in pro-inflammatory immune responses in KD patients at the transcriptional level [14]. Rephrase this portion for improved readability. 36. The second signal leads to the assembly of the namesome protein, resulting in the activation of caspase 1, which is called activation.Caspase-1 converts pro-IL1β and pro-IL18 to IL1β and IL18, respectively.It also leads Use “respectively” instead of “respectively.It” in this context. 37. The second signal leads to the assembly of the namesome protein, resulting in the activation of caspase 1, which is called activation.Caspase-1 converts pro-IL1β and pro-IL18 to IL1β and IL18,	

	respectively.It also leads Rephrase this portion for improved readability. 38. to programmed inflammatory cell death through the formation of pores in the cell membrane, with the end result being the release of inflammatory cytokines and inflammatory cell death through the formation of cell membrane pores. Category: Readability > Rephrase Replacement suggestion: resulting in 39. MicroRNAs(miRNAs) are endogenous non-coding RNA molecules responsible for a variety of cellular and metabolic pathways, including cell proliferation, differentiation, and death.miRNAs are also involved in the regulation of inflammatory response and maintenance of immune homeostasis [16]. Rephrase this portion for improved readability. Replacement suggestion: death, and 40. MicroRNAs(miRNAs) are endogenous non-coding RNA molecules responsible for a variety of cellular and metabolic pathways, including cell proliferation, differentiation, and death.miRNAs are also involved in the regulation of inflammatory response and maintenance of immune homeostasis [16]. The plural form of “response” should be used here. Replacement suggestion: responses	

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

Reviewer Details:

Name:	**Kamalesh Kumar K. S.**
Department, University & Country	**Indian Veterinary Research Institute, India**