

### **Article Acceptance Certificate**

This certificate confirms that the following paper has been accepted for publication in  
Journal of Medicinal and Chemical Sciences, Volume 6, Issue 10

Title: Predictive Value of Prognostic Nutritional Index in Children with COVID-19  
ID: JMCS-2305-2056 (R1)

Authors: Radhitio Adi Nugroho, Nur Aisiyah Widjaja, Retno Asih Setyoningrum, Volume and Issue:  
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**Professor Dr. Syed A. A. Rizvi**  
**Editor-in-Chief of Journal of Medicinal and Chemical Sciences**

<b>Manuscript ID</b>	JMCS-2305-2056 (R1)
<b>Manuscript Title</b>	Predictive Value of Prognostic Nutritional Index in Children with COVID-19
<b>DOI</b>	<a href="https://doi.org/10.26655/JMCHEMSCI.2023.10.12">10.26655/JMCHEMSCI.2023.10.12</a>
<b>Manuscript Type</b>	Original Article
<b>Main Subjects</b>	Clinical Science Research
<b>Abstract</b>	<p>Abstract</p> <p>Background and aim: Severe malnutrition might contribute the poor outcomes in COVID-19. This study aims to investigate the relationship between prognostic nutritional index (PNI) and mortality in children with COVID-19 infection and its predictive value for predicting the poor prognosis. Methods: A case control study using medical records of pediatric patients with COVID-19 was conducted from June 2020-July 2022. Subjects were divided into two groups: non-survived and survived. PNI value were calculated as <math>10 \times \text{serum albumin (g/dL)} + 0.005 \times \text{total lymphocyte count (/mm}^3\text{)}</math>. PNI was compared with nutritional status and several markers that have been used in COVID-19, including 1) neutrophil to lymphocyte ratio (NLR), 2) systemic immune inflammation index (SII), 3) platelet to lymphocyte ratio (PLR). Results: Among 124 eligible subjects, 34 (27.41%) were in the non-survived group and 90 (72.58%) children in the survived group. Children with severe malnutrition had lower albumin and a greater risk of death than those with good nutrition. PNI, NLR, and SII were significantly correlated with the mortality children with COVID-19 except for PLR; <math>P = 0.001</math>, <math>P = 0.001</math>, <math>P = 0.021</math>, and <math>P = 0.118</math>, respectively. Receiver operating characteristic curves stated that PNI (AUC = 0.741, <math>P &lt; 0.0001</math>). The cut-off values of PNI were 41.975 with sensitivities of 73.5% and specificities of 73.3%. PNI value <math>&lt; 41.975</math> had a 7.64 times greater risk of mortality (<math>P &lt; 0.0001</math>).</p> <p>Conclusions: PNI might be used as predictive value for predicting poor outcome in children with COVID-19 infection</p>
<b>Keywords</b>	COVID-19, children, albumin, nutritional status, prognostic nutritional index
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