NEUTROPHIL-LYMPHOCYTE RATIO FOR PREDICTING CORONARY ARTERY LESIONS IN CHILDREN WITH KAWASAKI DISEASE

AIM: To study the role of neutrophil-lymphocyte ratio (NLR) and other biomarkers in predicting the development of coronary artery lesions (CAL) and IVIG resistance in children with Kawasaki disease

SUBJECTS

Children diagnosed with Kawasaki disease between January 2016 and January 2020, meeting diagnostic criteria of American Heart Association Guidelines, 2017.

(N=79)

METHODS

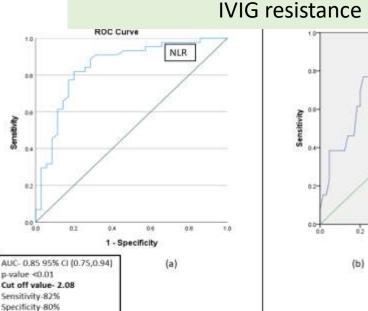
Clinical, laboratory & echocardiography data extracted from hospital records.

NLR was calculated from hemogram performed between day 4 and 6 of fever.

RESULTS

CAL was found in 40 (50.6%) children IVIG resistance was found in 13(16.5%)

1 - Specificity



NLR ≥2.08 &
ESR ≥88 mm/hr
were each >80% sensitive
in predicting CAL & IVIG
resistance, respectively

CONCLUSION: A high NLR value (≥2.08) between days 4 and 6 of fever onset,

reliably predicted CAL but did not predict IVIg resistance. An ESR value of ≥88

mm/hr predicted IVIg resistance.

Chidambaram, et al. 2022

Indian Pediatrics

AUC- 0.79 95% CI (0.65, 0.93)

p-value < 0.01

Cut off value- 88

Sensitivity-85%

Specificity-63%

Official publication of Indian Academy of Pediatrics

