52nd CARDIOCON 2023: ABSTRACT

THE ROLE OF NEUTROPHIL TO LYMPHOCYTES RATIO AND IT'S COMMON CLINICAL OUTCOMES AMONG THE PATIENT WITH NON ST ELEVATION ACUTE CORONARY SYNDROME

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**Objectives:** To evaluate the admission neutrophil-to-lymphocyte ratio (NLR) for risk stratification for in-hospital outcomes and complications in non-ST-elevation acute coronary syndrome (non-ST-ACS) patients.

**Methodology:** Methods: We recruited consecutive patients with non-ST-ACS. The NLR was obtained and stratified as low, inter- mediate, and high-risk based on <3.0, 3.0-6.0, and >6.0, respectively. The new ST-T changes, arrhythmias, contrast-induced nephropathy (CIN), and mortality were recorded.

**Results:** Results: Median NLR was 3 [2.1-5.3] for 346 patients with 19.9% and 30.6% in high- and intermediate-risk group. New ST-T changes were observed in 3.5% (12) out of which 8, 3, and 1 patient in low, intermediate, and high-risk group (p = 0.424), respectively. Arrhythmias were observed in 5.8% (20) with 7, 5, and 8 patients in low, intermediate, and high- risk group (p = 0.067), respectively. CIN was observed in 4.9% (17) with 5, 5, and 7 in low, intermediate, and high-risk group (p = 0.064), respectively. In-hospital mortality was recorded in 1.4% (5) with 2 and 3 patients in high and low-risk group (p = 0.260), respectively.

**Conclusion:** A significant number of non-ST-ACS patients fall in the high-risk category of NLR. Although, the association between NLR and in-hospital mortality and adverse events was not statistically significant but relatively higher rates of events were observed in high risk group.

**Keywords:** Atherosclerotic cardiovascular diseases (ASCVD), Neutrophil to lymphocyte ratio (NLR), Non-ST-elevation acute coronary syndrome (non-ST ACS), Prognosis, Pakistan

**Citation:** Jalbani J, Bhatti KI, Sallar T. The Role of Neutrophil to Lymphocytes Ratio and It's Common Clinical Outcomes Amount the Patient with Non ST Elevation Acute Coronary Syndrome. Pak Heart J. 2023;56(Supplement_2):S7. https://doi.org/10.47144/phj.v56iSupplement_2.2679

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