

52<sup>nd</sup> CARDIOCON 2023: ABSTRACT

**CORRELATION BETWEEN SERUM URIC LEVEL AND THE SEVERITY OF CORONARY ARTERY DISEASE**

**Sher Wali Khan<sup>1</sup>, Farwa Munir<sup>1</sup>**

<sup>1</sup>Lady Reading Hospital Peshawar, Pakistan

**Objectives:** The objective of current study was to assess the correlation between serum uric acid level and severity the severity coronary artery disease (CAD).

**Methodology:** This descriptive study was carried at department of Cardiology, Lady Reading Hospital, Peshawar during the period 5th January 2023 till 10th August 2023. Patients with coronary disease were enrolled and graded according to syntax score. Serum uric acid level was determined. Correlation between serum uric level and severity of CAD was determined using spearman correlation coefficient. Data was entered and analyzed using SPSS version 25.

**Results:** In this study 303 patients were enrolled. Age of the patients ranged from 40 to 70 years with mean age  $59.28 \pm 12.33$  years. 228 (75.2%) participants were male. Mean uric acid was  $7.01 \pm 1.77$  mg/dl. Syntax score was  $29.39 \pm 7.29$ . 43.6% patients had syntax score  $\geq 33$ . The spearman correlation coefficient “r” value between serum uric acid and CAD was 0.498 showing moderately strong correlation. Hyperuricemia was observed in 56.8% patients with syntax score  $\geq 33$  as compared to 49.1% and 47.4% patients with syntax score 23-32 and 0-22 respectively.

**Conclusion:** This study concluded that there's a positive and moderately strong correlation exists between serum uric acid level and severity of CAD.

**Keywords:** CAD Severity, Serum Uric Acid, Correlation

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**Citation:** Khan SW, Munir F. Correlation between Serum Uric Level and the Severity of Coronary Artery Disease. Pak Heart J. 2023;56(Supplement\_2):S2. [https://doi.org/10.47144/phj.v56iSupplement\\_2.2674](https://doi.org/10.47144/phj.v56iSupplement_2.2674)

**Corresponding Author:** Sher Wali Khan, Lady Reading Hospital Peshawar, Pakistan.