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**Original article:**

**Correlation between ABO/Rh Blood Groups with the incidence of renal calculi**

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**Abstract:**

**Background:** Occurrence of renal calculi is reported to be increasing in several countries. Factors like age, sex, BMI and life style modifications are linked to it. However, the role of blood group system in the incidence of renal calculi is under research.

**Objective:** To evaluate the association between ABO and Rh factor blood group system with the incidence of renal calculi.

**Methodology:** A case control study was done from 150 medical case records of known renal calculi subjects at Chettinad Hospital and Research Institute, Chennai, India. From the case records, A, B, O and AB blood groups, Rh factor distribution in renal calculi subjects were collected and percentage distribution of above mentioned blood groups were analyzed.

**Results:** Incidence of renal calculi was O > B > A > AB among the study groups. Rh - ve individual showed a significant lower incidence when compared to Rh + ve subjects. In that, A and AB – ve were observed to be the least affected with nil incidences among the study population.

**Conclusions:** This study gives an idea that O, B and Rh + ve individuals are more susceptible for renal calculi. Future studies to be done at molecular level to understand the link between blood group system and incidence of renal calculi.

**Key Words:** ABO blood group, Rh factor, renal calculi