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Etiological survey of chronic kidney disease patients on maintenance hemodialysis in different centers of Chittagong, Bangladesh

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Background & Objectives: Chronic kidney disease (CKD) is a common health problem in Bangladesh. Etiological factors of CKD are very vital for management but largely unknown in our setting. Hence, the main objective of the study is to identify etiology of CKD of patients who are on maintenance hemodialysis (MHD) at different dialysis units of Chittagong.

Methods: This descriptive study was conducted on 107 patients of CKD who were on MHD in different dialysis centers of Chittagong town, Bangladesh. A pretested questionnaire was adopted from previous study addressing different etiology of the CKD. This study was based solely on history and previous health records. After collection of data, it was compiled and analyzed manually.

Results: In the present study, there were 61.62% males and 38.31% females and male female ratio was 1.61:1. Majority (42 [39.25%]) of the patients were in the age group of 50-60 years, next to which was 40-50 years (23 [21.49%]). Diabetes mellitus (DM) with or without hypertension (HTN) was found as the most common etiology (70 [65.45%]) of CKD in our study, next to which was HTN (53 [49.53%]), non-steroidal anti inflammatory drug (NSAID) (15 [14.1%]), chronic glomerulonephritis (7 [6.54%]), polycystic kidney disease (6 [5.60%]), systemic lupus erythematosus (1 [0.93%]), contrast induced (1 [0.93%]) and following acute kidney injury (1 [0.93%]). Only 4 (3.73%) cases were found to have biopsy confirmed nephritis.

Conclusion: DM was found the most common etiology of CKD among patients who are on MHD in Bangladesh, next to which was HTN. Maximum patients had no biopsy proof of CKD and NSAID constituting a significant segment of etiology which is a potentially preventable etiology, in our setting.

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