

Abstract Type : Oral

Abstract Submission No. : OR-1782

Screening and Risk Factors for Vascular Calcifications in Hemodialysed Patients

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Objectives: Vascular calcifications (Cvs) are a significant risk factor for mortality during chronic kidney disease. It is therefore important to know the risk factors associated with their development. The purpose of this work was to determine the prevalence of Cvs in hemodialysis and to identify their risk factors.

Methods: This is a cross-sectional CAA(calcification of the abdominal aorta); screening study in 40 chronic hemodialysed patients for more than six months who received an unprepared abdominal x-ray (AUP) profile, conducted in the nephrology and haemodialysis department of the CHU IBN ROCHD over a period of 3 months from November 2019 to January 2020.

Results: There were 40 hemodialysed patients. The average age of our population was 43.7+/- 13.8 years with extremes ranging from 16 to 72 years, a slight male predominance 57.5%. The mean duration of hemodialysis was 12.5 years, the initial nephropathy was dominated by undetermined nephropathy. CAA were found in 37.5% of cases. Compared to the group without CAA, the majority of patients with CAA were male, older, and older in hemodialysis. No significant difference between the two groups in phosphocalcic balance, hemoglobin or CRP.

Conclusions: The Unprepared Abdominal (AUP) is a simple and reproducible means of screening and tracking this complication in hemodialysis.