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The trends in medication prescriptions for hemodialysis patients with chronic kidney disease

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Chronic kidney disease (CKD) is usually associated with co-morbid conditions cardiovascular diseases, diabetes, and anemia. The treatment of CKD patients under the maintenance of hemodialysis is a case of polypharmacy, a complex therapeutic regimen. Drug use pattern studies guide understanding of how drugs are appropriately utilized within a given time period to reduce morbidity, mortality, and better patient care.

Study Design: Prospective, observational Study of drug utilization pattern and prevention of medication-related problems in patients undergoing hemodialysis at General Hospital Dawadami, Saudi Arabia. Material Used: Informed consent form, Drug Utilization form, ADR monitoring form, Patient Counseling Form, and Morisky Medication-Taking Adhrence Scale. Data Collection: Information on age, gender, drugs prescribed, Adverse Drug reaction, and natient feedback was reproduced on a

Adverse Drug reaction, and patient feedback was recorded on a special design form in the Department of AKU by conducting a patient interview after their informed consent was obtained. All the data were kept confidential.

- Inclusion Criteria: Age group 18-80 years, irrespective of Gender Having GFR between 4-28 mL/min/1.73m2 Undergoing maintenance hemodialysis

- Exclusion criteria
- Chronic kidney disease patients co-infected with HIV/Hepatitis B/Hepatitis C
- Renal transplantation/tumor/trauma Pregnant and lactating mothers were excluded from the stud
- Drug addicts and all mentally retarded patients.

CKD Patients undergoing hemodialysis have other comorbid conditions and therefore needed close monitoring and counseling regarding drug utilization to reduce the incidence associated with mortality and morbidity.

1. Chakraborty S, Ghosh S, Banerjea A, De RR, Hazra A, Mandal SK. Prescribing patterns of medicines in chronic kidney disease patients on maintenance hemodialysis. Indian J Pharmacol. 2016;48(5):586-590. 2. Stauffer ME, Fan T. Prevalence of anemia in chronic kidney disease in the United States. PLoS One. 2014;9(1):e84943.

There was a total of 60 patients' data were recorded and analyzed. The mean age (standard deviation; SD) of the patients was 58 (±16.42) years; 56.55% (34 patients) were male and 43.33%(26 patients) were female, the mean blood urea nitrogen (SD) level was 19.6 (±.12) mmol/L, mean (SD) of GFR (SD) 11.7 (±2.54) mU/min/L.73m2, serum creatinine level (SD) was 632.4 (±198.04) µmol/L. About 46.66 (28 patients) were having cardiovascular diseases. The most common co-motbidities becomed, were, apenalis (20% 42 - outjents) followed by cardiovascular diseases. The most common co-monutanes observed wave anemia (70%, 42 patients) followed by hypertension (40%, 24 patients), and diabetes (33.33%, 20 patients). The average number of drugs per prescription was 6 (3-8), with the majority being vitamins-minerals (52.5%), antihypertensive drugs (27.3%) antidiabetic drugs (12.56%), gastrointestinal drugs (8.66%) and anticoagulants (8.20%).

Category	Number of Drugs	Percentage (%)
Vitamins & Minerals	190	52.66
Antihypertensive agents	98	27.3
Antidiabetic drugs	45	12.56
Gastrointestinal drugs	31	8.66
Anticoagulant agents	22	8.2
Immunosuprassants	5	1.37
Antihyperphosphatamia	10	2.75
Hypolipidemics	18	5.17
Antiemetics	3	0.83
Antithyroids	3	0.83

