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Title : *Analysis of Drug Related Problems (DRPs) in Patients with Chronic Kidney Failure Disease in the Inpatient Installation of Imelda General Hospital for Workers of Indonesia Medan*

ABSTRACT

Chronic kidney disease (CKD) has become a growing global public health priority associated with high morbidity, mortality, and healthcare costs. Patients with chronic disease often require a combination of several drugs. The administration of these drug combinations is generally expected to have a beneficial effect, but in some cases drug interactions are found that result in ineffective treatment and the emergence of unexpected events and cause quite adverse effects both on clinical and on treatment costs. This study aims to determine the incidence of Drug Relate Problems (DRPs) in CKD patients at the Inpatient Installation of Imelda Workers General Hospital Medan. This study was a non-experimental study with descriptive observation that data collection was done retrospectively and analysed with descriptive methods. The sampling technique used the Slovin formula with a total of 60 patients during the January - March 2024 period. Analysis of drug interaction data based on Drug Interaction Checker and Drug Interaction Fact and classification of Drug Relate Problems (DRPs) according to Cipolle et.2012. The results showed that there were 3 occurrences of DRPs in CKD patients, namely: Too Low Drug Dosage 30 patients (68.18%), Unnecessary Drug Therapy there were 10 patients (22.73%) and Patient Non-Compliance there were 4 patients (9.09%). Interaction Based on Severity Major 27 cases, Moderate 202 cases, Minor 46 cases. Interaction based on mechanism of action Pharmaceuticals 1 case, Pharmacokinetics 9 cases, and Pharmacodynamics 23 cases.

Keywords : Chronic kidney disease (CKD), Drug Relate Problems (DRPs), Cipolle. 2012.

**PROGRAM STUDI SARJANA FARMASI
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Judul : Analisis *Drug Related Problems* (DRPs) Pada Pasien PenyakitGagal Ginjal Kronik Di Instalasi Rawat Inap Rumah Sakit Umum Imelda Pekerja Indonesia Medan

ABSTRAK

Chronic kidney disease (CKD) atau penyakit ginjal kronis telah menjadi prioritas kesehatan masyarakat global yang berkembang dikaitkan dengan morbiditas, mortalitas, dan biaya perawatan kesehatan yang tinggi. Pasien dengan penyakit kronik seringkali memerlukan kombinasi beberapa obat. Pemberian kombinasi obat ini secara umum diharapkan dapat memberikan efek yang menguntungkan, namun di beberapa kasus ditemukan interaksi obat yang mengakibatkan tidak efektifnya pengobatan dan munculnya kejadian yang tidak diharapkan dan menimbulkan efek yang cukup merugikan baik pada klinis maupun pada biaya perawatan. Penelitian ini bertujuan untuk mengetahui kejadian *Drug Relate Problems* (DRPs) pada pasien CKD di Instalasi Rawat Inap Rumah Sakit Umum Imelda Pekerja Indonesia Medan. Penelitian ini merupakan penelitian non eksperimental dengan observasi deskriptif yang pengumpulan data dilakukan secara retrospektif dan dianalisis dengan metode deskriptif. Teknik pengambilan sampel menggunakan rumus *Slovin* dengan jumlah pasien sebanyak 60 pasien selama priode Januari – Maret 2024. Analisis data interaksi obat berdasarkan Drug Interaction Checker dan Drug Interaction Fact dan klasifikasi *Drug Relate Problems* (DRPs) menurut Cipolle, R.J., Strand, L.M., dan Morley, (2012). Hasil penelitian menunjukkan terdapat 3 kejadian DRPs pada pasien CKD yaitu: Dosis Obat Terlalu Rendah 30 pasien (68,18%), Terapi Obat yang Tidak Perlu terdapat 10 pasien (22,73%) dan Ketidak Patuhan Pasien terdapat 4 pasien (9,09%). Interaksi Berdasarkan Tingkat Keparahan Mayor 27 kasus, Moderat 202 kasus, Minor 46 kasus. Interaksi berdasarkan Mekanisme kerja Farmasetik 1 kasus, Farmakokinetik 9 kasus, dan Farmakodinamika 23 kasus.

Kata Kunci : *Chronic kidney disease* (CKD), *Drug Relate Problems* (DRPs),Cipolle. 2012.