

ABSTRACT

EVENT OF DRUG INTERACTIONS IN ANTIHYPERTENSIVE POLYPHARMACEUTICAL PRESCRIPTIONS AT "CHEMICAL FARMA" PHARMACY SURABAYA

Mochamad Gali Prasetyo

Drug interactions are something that must be considered in patients who receive a large number of types of drugs. Hypertension is a degenerative disease, which usually requires more than one drug to treat. So that hypertensive patients will be prone to experiencing drug side effects. This study aims to identify potential antihypertensive drug interactions in outpatients. This study was retrospective in nature by taking 187 samples of antihypertensive polypharmacy prescriptions at the Kimia Farma 304 Pharmacy in Surabaya in 2022. The potential for drug interactions was analyzed based on class, name, mechanism and severity of drug interactions using the Medscape application and supporting journals. Of the 187 prescriptions analyzed, 80 prescriptions (42.7%) had the potential to experience drug interactions. All prescriptions experienced a pharmacodynamic interaction mechanism of 77% and 23% pharmacokinetics. Based on the level of severity, it was found that 32% of prescriptions had the potential to experience Minor interactions, 54% Monitor Closely and 14% Serious. The most common drug groups were CCBs with 26%, Diuretics 22%, ARBs 20%, β Blockers 18% and ACE Inhibitors 14%. Based on the research results, the conclusion that can be drawn is that the treatment of hypertension in this study was 26% using CCB class antihypertensive drugs. The most common level of severity is Monitor Closely level. From this study it can be concluded that the interaction between hypertension drugs is moderate, so it needs supervision in their use.

Keywords : Hypertension, Polypharmacy, Drug Interaction, Antihypertensive, Medscape