

ABSTRACT

STUDY OF POTENTIAL DRUG INTERACTIONS IN ANTIHYPERTENSION PRESCRIPTION AT KIMIA FARMA 165 PHARMACY PASURUAN

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Drug interactions can cause several problems, including decreased therapeutic effect, increased toxicity or unexpected pharmacological effects. The potential of drug interactions will increase with the use of more drugs from complications of disease that leading to the decrease of effectivity and clinical outcome. The purpose of this study was to determine the incidence of potential drug interactions in antihypertension prescriptions at Kimia Farma 165 Pharmacy Pasuruan. A total of 88 prescriptions have been analyzed. From the prescriptions that have been analyzed, women suffer from hypertension more, with a total of 47 prescriptions (53,4%) than men with a total of 41 prescriptions (46,6%). Of the 88 prescriptions, 62 (70,5%) had potential drug interactions and 26 (29,5%) had no potential for drug interactions. Among 62 interacting prescriptions, there were a total of 168 potensial drug interaction events which consisted of 123 (80,4%) pharmacodynamic interactions and 1 (0,7%) pharmacokinetic interactions were observed. Based on the severity of drug interactions, as many as 6 (3,9%) potential drug interaction events had a minor severity level, 145 (94,2%) had the severity of closely monitoring and 3 (1,9%) had a serious severity level. To anticipate drug interactions, its better to improve communication between pharmacists and doctors in determining therapy for patient.

Keywords : *Drug interaction, prescription, hypertension*