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Clinical pharmacokinetics aspect of drugs in patients with hypertension in the internal medicine department of Hospital Padangpanjang, Indonesia

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A study on clinical pharmacokinetics aspect of drugs in patients with hypertension at the internal medicine department of Hospital Padangpanjang (Indonesia) has been conducted. The aims of the research were to determine the accuracy of antihypertensive medications to achieve targeted blood pressure and to assess the dosage regimen based on liver and/or kidney functions, also drug interactions. The study was performed from December 2013 to February 2014. This is observational prospective study with 49 patients who met the inclusion and exclusion criteria. Data was analyzed descriptively. Results showed that 60.42% antihypertensive medications were effective but 39.58% not effective to reach the targeted blood pressure. There were three cases in appropriate dose regimen covering one case digoxin, one case furosemide and one case captopril. From the cases, doses exceed individual dose included digoxin and captopril. There were 14 cases of pharmacokinetic interactions and two cases of pharmacodynamics interactions. Interaction between amlodipine and diltiazem (7 patients, 14.58%) influenced the blood pressure control in patient. These are pharmacokinetic interaction because diltiazem decreases metabolism of amlodipine by inhibiting enzyme CYP 3A3/4.

Biography

Fadhila Helnisa has completed her Bachelor degree from Andalas University, Indonesia and has successfully fulfilled all the academic requirements of Indonesian Pharmacist Profession. Now, she is studying Master of Toxicology at University of Birmingham.

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