ABSORPSI PER-ORAL DIGOXIN DAN B-METHYL DIGOXIN SERTA HUBUNGAN PARAMETER FARMAKOKINETIKA DENGAN FAKTOR INDIVIDU YANG BERPENGARUH (STUDI PADA SUBYEK SEHAT)

ABSTRACT :

The study on healthy volunteers was aimed to find the characteristic profile of Digoxin absorpsion in comparison to β-Methyldigoxin after oral administration of the drugs.

The pharmackokinetics of oral absorption of the drugs were observed in 16 healthy male subjects. Aged 21-39 years body weight 51-67 kg. Equal dose of 0.500 mg DG and BMD were given in a cross over manner, with a wash-out period of 2 weeks.

Better rate (T_{max}, C_{max}) and extent of absorpstion (AUC) were found with BMD in comparison to Digoxin, respectively : T_{max} 0.625 and 1.156 hours ; C_{max} 4.55 and 3.12) ng/ml serum ; AUC (26.67 and 23.77) ng/ml. The measurable individuals factors interfere to the pharmacokonetic parameters of DG and BMD after matrix intercorrelation and multiple regression analysis were found to be : DG parameters interfered more by bodyweight, body surface area, and serum creatinine, while BMD parameters has relation more significantly with serum creatinin, clearance creatinin and body weight (F=0.001).

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