

Influence of ethanol ingestion on tetracycline kinetics

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The effect of ethyl alcohol ingestion on tetracycline kinetics was studied in 9 healthy male volunteers. They received, on two separate occasions, 500 mg of tetracycline tablets given with water or with an alcoholic beverage. The antibiotic was assayed in plasma, using a HPLC method. Absorption and disposition parameters were calculated according to classical pharmacokinetic techniques for one compartment model. The significance of changes in pharmacokinetic parameters was determined by a multiway ANOVA test. In the present study, ingestion of alcohol caused significant increase of C(max) (from 9.317 to 12.362 $\mu\text{g/ml}$), and increase of AUC (from 62.65 to 94.28 $\mu\text{g/ml}\cdot\text{h}$).