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Effect of cimetidine on the pharmacokinetics of paracetamol in human subjects

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Statement of the Problem: the recognition of a drug interaction is usually the result of either enhanced or diminished therapeutic effect. This may be from the concomitant administration of another agent, an alteration in physiology or from the effect of diseases. Purpose of the study is to study the effect of *Cimetidine* on the pharmacokinetics of *paracetamol* in human subjects..

Methodology & Theoretical Orientation: The study was divided into two phases. The non-invasive method of estimating drug levels in plasma was used.

Findings: The results of this study have shown that *cimetidine* affected the pharmacokinetics of *paracetamol* in delayed treatments than in concurrent treatment.

Conclusion & Significance: *Cimetidine* has affected the pharmacokinetics of *Paracetamol* which was obvious when it was administered an hour before Paracetamol tablets. The rationale of single dose study here is to observe the profile of the interaction without any disturbance by the multiple regimen. Recommendations are made to administer cimetidine and paracetamol concurrently.

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