

The pharmacokinetics of oral and intravenous nalbuphine in healthy volunteers

Achola, KJ; Aitkenhead, AR; Lin, ES

Date: 1988-02

Abstract:

The pharmacokinetics of nalbuphine were studied in 10 healthy volunteers on two separate occasions following administration by either the intravenous (20 mg) or oral (60 mg) route. After administration, serum concentrations of nalbuphine were measured for 12 h using a high pressure liquid chromatography assay, and pharmacokinetic parameters were derived using a three compartment model. After i.v. administration, elimination half-life was 222 (111-460) min (mean and range) and total body clearance was 1.5 (0.8-2.3) l min⁻¹. C_{max} after oral administration was 21.4 (6.0-36.2) ng ml⁻¹ and t_{max} was 46.6 (15.3-89.0) min. Bioavailability of the oral preparation was 11.8 (6.1-20.1)%.