1.2.2 Pharmacokinetics of Esomeprazole :

Pharmacokinetics profile of esomeprazole is summerised in table (3).

Table 3 : Pharmacokinetics parameters of Esomeprazole

Absorption	90%
Volume of distribution	16 L [healthy volunteers]
Protein binding	97%
Metabolism	Mainly hepatic. Esomeprazole is completely metabolized by the cytochrome P450 system via CYP2C19 and CYP3A4. Metabolism produces inactive hydroxy and desmethyl metabolites, which have no effect on gastric acid secretion. Less than 1% of the parent drug is excreted in urine.
Route of elimination	Approximately 80% of the administered dose of esomeprazole is excreted as metabolites in urine and the remaining 20% is excreted in feces.
Half life	1-1.5 hours
Clearance	Not Available
Toxicity	Blurred vision, confusion, drowsiness, dry mouth, flushing headache, nausea, rapid heartbeat, sweating
Affected organisms	Humans and other mammals