

PERBANDINGAN UJI MUTU FISIK TABLET SIMETIDIN GENERIK DAN GENERIK BERMEREK

ABSTRAK

Simetidin merupakan obat saluran cerna golongan antagonis reseptor H₂ yang dapat meningkatkan penyembuhan ulser gastric dan duodenum, mengatasi gejala gastroesophageal reflux disease (GERD) serta mencegah terjadinya stress ulser. Penelitian ini dilakukan untuk melihat apakah terdapat perbedaan mutu fisik tablet simetidin generik dan generik bermerek yang ada dipasaran. Metode yang digunakan yaitu kuantitatif dengan teknik pengumpulan data berupa pemeriksaan laboratorium dan observasi. Data berupa hasil mutu fisik tablet yang meliputi keseragaman ukuran, keragaman bobot, kekerasan tablet, kerapuhan tablet, simulasi waktu hancur dan simulasi disolusi tablet. Keseragaman ukuran tablet generik yaitu rata-rata diameter dan ketebalan sebesar 0,88 cm dan 0,30 cm sedangkan tablet generik bermerek memiliki rata-rata diameter dan ketebalan sebesar 0,98 cm dan 0,36 cm. Keragaman bobot tablet generik yaitu sebesar 2,815% dan tablet generik bermerek sebesar 1,894%. Kekerasan tablet generik sebesar 8,43 kg/cm² dan generik bermerek sebesar 7,95 kg/cm². Kerapuhan tablet generik sebesar 0,04% untuk dan generik bermerek sebesar 0,05%. Waktu hancur tablet simetidin yang dipersyaratkan adalah 15 menit. Kadar simetidin yang harus terdisolusi dalam kurun waktu 15 menit adalah lebih dari 80%. Berdasarkan penelitian ini disimpulkan bahwa antara tablet simetidin generik dan generik bermerek tidak terdapat perbedaan yang signifikan.

Kata kunci : Uji Mutu Fisik, Tablet, Simetidin, Generik, Generik Bermerek.

COMPARATIVE TEST OF THE PHYSICAL QUALITY OF CIMETIDINE GENERIC AND GENERIC BRANDED

ABSTRACT

Cimetidine is an H₂ receptor antagonist gastrointestinal drug that can improve the healing of gastric and duodenal ulcers, treat symptoms of gastroesophageal reflux disease (GERD) and prevent stress ulcers. The study was intended to see whether there are differences in the physical quality of generic and branded cimetidine tablets on the market. The method used is quantitative with data collection techniques in the form of laboratory examination and observation. Data in the form of tablet physical quality results which include size uniformity, weight diversity, tablet hardness, tablet friability, simulation of disintegration time and simulation of tablet dissolution. The uniformity of generic tablet size is the average diameter and thickness of 0.88 cm and 0.30 cm while branded generic tablets have an average diameter and thickness of 0.98 cm and 0.36 cm. The weight diversity of generic tablets is 2.815% and branded generic tablets is 1.894%. The hardness of generic tablets is 8.43 kg/cm² and branded generics is 7.95 kg/cm². The fragility of generic tablets is 0.04% for branded generics and 0.05%. The required disintegration time for cimetidine tablets is 15 minutes. The concentration of cimetidine that must be dissolved within 15 minutes is more than 80%. Based on this study, it was concluded that there was no significant difference between generic and branded cimetidine tablets.

Keywords : Physical Quality Test, Cimetidine, Generic, Branded Generic.