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Comparing methods crushing suspension method and simple suspension method to decrease contents of Spironolactone

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Background: Spironolactone is one of frequently drug used for heart desease as diuretic. For very old patient or patien in coma condition, this drug togather with others is administered as suspension in hospital.

Objective: The objective of this research was to understand at the comparison of two suspension methods, Crushing Suspension Method and Simple Suspension Method towards decreased contents of Spironolactone.

Methods: In this study, the percentage of Spironolactone concentrations of both suspension methods was measured using High Performance Liquid Chromatography based on methods of United State Pharmacopeia. The test was conducted by sampling at 0, 15, 30, 45, and 60 minutes.

Results: The results showed that there was a changing of Spironolactone contents with both of suspension method. In Crushing Suspension Method 93,9505% - 89,2399% and Simple Suspension Method 97,2743% - 95,1559%.

Conclusion: Simple Suspension Method is the ideal suspension method used because it can maintain Spironolactone drug contents as monographic requirements which is 95% - 105%.

Recent Publications

- 1. Anonim. 2007. The United State Pharmacopoeia 30-The National Formulary 25. United States Pharmacopoeia Convention, Inc. Electronic version.
- 2. BasuSaskar Arindam, et al. 2013. Chemical Stability of Compounded Spironolactone Suspension in Proprietary Oral MixTM Over a 90-day Period at Two Controlled Temperatures in Different Storage Containers. International Journal of Pharmaceutical Sciences Review and Research; 23(1): 67-70.
- $3. \ Cashman, John\ R\ \&\ Sandra\ Pena.\ 1988.\ S-Oxygenation\ of\ 7\alpha-Thiomethyl spironolactone\ by\ the\ Flavin-Containing\ Monooxygenase.\ Drug\ Metabolism\ \&\ Drug\ Interaction;\ 6:\ 3-4.$
- 4. Charles, F., Lora, L., et al. 2009. Information Handbook, 17th edition. American: Lexi-Comp.
- 5. Harmita. (2006). Analisis Kuantitatif Bahan Baku dan Sediaan Farmasi. Depok: Departemen Farmasi FMIPA Universitas Indonesia. 157-165
- 6. Hichiya Hiroyuki, Yusuke Mimura, et al. 2014. Evaluation of Oral Antidepressant Drugs for Adaption to the Simple Suspension Method. Journal of Young Pharmacist. Vol.6 (4).

Biography

Yardi is a lecture in pharmacy department of faculty of medicine and health science, stated islamic universit Syarif Hidayatullah Jakarta, Indonesia. His interested field of study is pharmacy practice and Pharmacology.

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