

INTISARI

YOESTI, YD., 2017. FORMULASI ORALLY DISINTEGRATING TABLET (ODT) METOCLOPRAMIDE DENGAN SUPERDISINTEGRANT CROSPVIDONE DAN SODIUM STARCH GLYCOLATE (SSG) DENGAN METODE KEMPA LANGSUNG, KARYA TULIS ILMIAH, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.

Orally Disintegrating Tablet adalah bentuk sediaan padat yang mengandung bahan aktif obat yang hancur atau melarut dengan cepat tanpa memerlukan air dalam waktu kurang dari 60 detik ketika diletakkan di atas lidah. ODT *metoclopramide* memberikan keuntungan untuk kelompok pediatri dan geriatri yang mengalami kesulitan dalam menelan tablet konvensional.

ODT *metoclopramide* dibuat dengan metode kempa langsung. Masa serbuk yang dihasilkan diuji waktu alir dan sudut diam. Uji fisik tablet meliputi : keseragaman bobot, kekerasan, kerapuhan, keseragaman ukuran, waktu disintegrasi, waktu pembasahan, tanggap rasa dan waktu hancur *in-vivo*. Formulasi *superdisintegrant Crospovidone* dengan konsentrasi 6%, 4% dan *Sodium Starch Glycolate* (SSG) konsentrasi 6%, 2%. Data yang dihasilkan dibandingkan dengan persyaratan yang ada kemudian dianalisis statistik Anova satu jalan dan uji SNK pada taraf kepercayaan 95%.

Hasil penelitian menunjukkan bahwa kombinasi *superdisintegrant Crospovidone* dan *Sodium Starch Glycolate* (SSG) mempengaruhi uji mutu fisik ODT *metoclopramide*. *Superdisintegrant Crospovidone* 4% dan *Sodium Starch Glycolate* (SSG) 2% menghasilkan waktu hancur yang cepat dibandingkan dengan formulasi yang lainnya, yaitu 21,02 detik.

Kata kunci : Orally Disintegrating Tablet, metoclopramide, Crospovidone dan Sodium Starch Glycolate (SSG)

ABSTRACT

YOESTI, YD., 2017. THE FORMULATION OF *ORALLY DISINTEGRATING TABLET* (ODT) METOCLOPRAMIDE WITH *SUPERDISINTEGRANT* CROSPROVIDONE AND *SODIUM STARCH GLYCOLATE* (SSG) WITH DIRECT COMPRESSION METHOD, PHARMACY FACULTY, SETIA BUDI UNIVERSITY, SURAKARTA.

Orally Disintegrating Tablets is a solid dosage form containing a drug substance that breaks down or dissolves quickly without requiring air in less than 60 seconds when it is peppered over the tongue. ODT metoclopramide provides benefits for pediatric and geriatric groups who have difficulty in ingesting conventional tablets.

ODT metoclopramide is made by direct compression method. The resulting powder period is tested at the time of flow and the stationary angle. Physical test tablets include: weight uniformity, hardness, brittleness, uniformity size, disintegration time, wetting time, taste response and in-vivo crushed time. Crospovidone superdisintegrant formulation with concentrations of 6%, 4% and Sodium Starch Glycolate (SSG) concentrations of 6%, 2%. The resulting data were compared with the existing requirements then analyzed one way ANOVA statistic and SNK test at 95% confidence level.

The results showed a combination of superdisintegrant Crospovidone and Sodium Starch Glycolate (SSG) development of ODT metoclopramide physical quality test. Superdisintegrant Crospovidone 4% dan Sodium Starch Glycolate (SSG) 2% results in a rapid crushing time compared to other formulations, which is 21.02 seconds.

Keywords: *Orally Disintegrating Tablets, metoclopramide, Crospovidone and Sodium Starch Glycolate (SSG)*