

**DAYA HAMBAT EKSTRAK ETANOL DAUN SERAI (*Cymbopogon citratus*)
TERHADAP PERTUMBUHAN *Trichophyton* sp. SECARA *in vitro***

Devin Alfiana¹, Sri Sinto Dewi², Wildiani Wilson²

1. Program Studi DIII Analis Kesehatan Fakultas Ilmu Keperawatan dan Kesehatan Universitas Muhammadiyah Semarang.
2. Laboratorium Mikrobiologi Fakultas Ilmu Keperawatan dan Kesehatan Universitas Muhammadiyah Semarang

ABSTRAK

Trichophyton sp. adalah salah satu jamur penyebab penyakit kulit pada manusia seperti panu, kadas dan kurap. Daun serai (*Cymbopogon citratus*) mengandung banyak manfaat diantaranya sebagai antijamur, antibakteri, antiinflamasi, antitumor dan antikanker. Daun serai mengandung beberapa senyawa bioaktif antara lain alkaloid, saponin, tanin, steroid, phenol dan flavanoid. Tujuan penelitian ini untuk mengetahui daya hambat ekstrak etanol daun serai terhadap pertumbuhan *Trichophyton* sp. Ekstraksi daun serai menggunakan metode maserasi dengan pelarut etanol. Uji daya hambat dilakukan dengan metode difusi sumuran menggunakan media SGA dan diinkubasi pada suhu ruang selama 72 jam. Hasil penelitian menunjukkan bahwa ekstrak daun serai dapat menghambat pertumbuhan *Trichophyton* sp. pada jumlah zat 75 mg dengan rata-rata diameter zona hambat 8,7 mm dan jumlah zat 100 mg dengan rata-rata diameter zona hambat 15,7 mm.

Kata kunci : Antijamur, Ekstrak etanol, *C.citratus*, *Trichophyton* sp.



THE INHIBITORY POWER OF LEMONGRASS' ETHANOL EXTRACT (*Cymbopogon citratus*) ON THE GROWTH OF *Trichophyton* sp. IN VITRO

Devin Alfiana¹, Sri Sinto Dewi², Wildiani Wilson²

1. Diploma III of Health Analyst Study Program of Faculty of Nursing and Health University of Muhammadiyah Semarang.
2. Microbiology Laboratory of Faculty of Nursing and Health University of Muhammadiyah Semarang

ABSTRACT

Trichophyton sp. is one of fungus that causes skin diseases in humans such as tinea versicolor and ringworms. Lemongrass leaves (*Cymbopogon citratus*) contain many benefits including as an antifungal, antibacterial, anti-inflammatory, antitumor and anticancer. Lemongrass leaves contain several bioactives compounds including alkaloids, saponins, tannins, steroids, phenols and flavonoids. The purpose of this study was to determine the inhibitory power of lemongrass leaf extract on the growth of *Trichophyton* sp. Lemongrass leaf extraction using maceration method with ethanol solvent. The inhibitory test was carried out using a well diffusion method using SGA media and incubated at room temperature for 72 hours. The results showed that lemongrass or citronella leaf extract can inhibit the growth of *Trichophyton* sp. in amount of 75 mg with an average inhibition zone diameter of 8.7 mm and the amount of substance 100 mg with an average diameter of the inhibition zone of 15.7 mm.

Key words :Antifungal, Etanol ekstrak, *C.citratus*, *Trichophyton* sp.

