

RINGKASAN

STUDI EFEKTIVITAS SEDIAAN GEL ANTISEPTIK TANGAN EKSTRAK
DAUN SIRIH (*Piper betle* Linn.).
(Retno Sari, Dewi Isadiartuti, 2005, 21 halaman)

Pemakaian sediaan gel antiseptik tangan umum dijumpai di masyarakat. Bahan antiseptik yang digunakan antara lain alkohol. Diketahui bahwa alkohol dapat melarutkan lemak dan sebum pada kulit tangan sehingga pemakaian yang lama dapat meningkatkan kemungkinan kulit terkena infeksi. Sirih secara tradisional digunakan sebagai antiseptik misal untuk obat kumur dan mengobati luka.

Penelitian ini bertujuan untuk mengetahui daya antiseptik dari ekstrak daun sirih yang diformulasikan dalam bentuk sediaan gel dengan basis Carbopol 940. Sediaan gel ekstrak daun sirih dibuat dengan kadar ekstrak 5%, 10%, 15%, 20% dan 25%. Daya antiseptik dari sediaan diuji dengan metode replica, dengan cara meneteskan sediaan pada telapak tangan dan menempelkan sidik jari pada media agar padat.

Hasil uji daya antiseptik menunjukkan bahwa pada kadar 15%, jumlah koloni yang tumbuh setelah pemakaian berkurang hingga 50%, sedangkan kadar 25% menunjukkan tidak adanya pertumbuhan mikroorganisme pada media.

(Fakultas Farmasi, Universitas Airlangga, No.kontrak 989/JO3.2/PG/2005)

SUMMARY

ANTISEPTICS ACTIVITY EVALUATION OF PIPER LEAVE FROM *Piper betle* Linn EXTRACT IN HAND GEL ANTISEPTIC PREPARATION
(Retno Sari, Dewi Isdiartuti, 2005, 21 pages)

It is known that piper leave (sirih) from *Piper betle* Linn has been used traditionally as medicine, for example for mouthwash and curing infection. The usage of hand gels antiseptic preparation is getting increased in the current time. This research has developed preparation of hand gels from piper leaves extract. The extract was obtained by hot water extraction. The formulation of gels were made by using 5%, 10%, 15%, 20% and 25% of piper leave extract in Carbopol gel base. The evaluation of antiseptics effectivity was carried out with replica method. The test was done by pouring the gels at hand palm and slightly tap the thumb fingerprint to nutrient agar media. The media was incubated at 37°C for 24 hours, the colony of microorganism was counted. The result showed that the gels has a transparent pale yellow performance. The gel preparation with concentration of 15% extract has activity to reduce the microorganism of skin normal flora up to 50%. Yet the 25% concentration of piper leave extract could eliminate all the microorganism.

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