

LAMA WAKTU KONTAK MINYAK JERUK (*Citrus sinensis*) SEBAGAI HAND SANITIZER TERHADAP PENURUNAN ANGKA KUMAN TELAPAK TANGAN

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INTISARI

Berdasarkan penelitian terdahulu *hand sanitizer* minyak jeruk konsentrasi 40% sesudah pemakaian 15 menit mampu menurunkan angka kuman tangan 80%. Hasil 80% memperlihatkan penurunan yang tidak berbeda jauh antara setiap pengulangan selama 15 menit oleh karena itu peneliti ingin mengembangkan untuk mengetahui penurunan angka kuman telapak tangan sesudah pemakaian 20 menit, 40 menit dan 60 menit dengan konsentrasi 40% demi memperoleh lama waktu kontak efektif dan hasil penurunan yang berbeda jauh.

Tujuan penelitian ini adalah mengetahui pengaruh variasi lama waktu kontak *hand sanitizer* minyak jeruk (*Citrus sinensis*) terhadap penurunan angka kuman telapak tangan sesudah pemakaian.

Metode penelitian ini adalah *Quasi Experiment* dengan rancangan penelitian "*Time Series Design* (Rancangan Rangkaian Waktu)". Pengambilan sampel dilakukan oleh BBTKLPP pada telapak tangan penjamah makanan di Kantin Sehati Poltekkes dan dilanjut pemeriksaan di BBTKLPP. Analisis data menggunakan *Kruskal-Wallis Test*.

Hasil penelitian ini adalah Rata-rata penurunan angka kuman tertinggi yaitu pemakaian *hand sanitizer* sesudah 40 menit sebesar 80% dan penurunan angka kuman terendah yaitu sesudah 60 menit sebesar 50%. Hasil analisis *Kruskal-Wallis Test* menunjukkan *p value* $0,434 > 0,05$ artinya tidak ada pengaruh lama waktu kontak *hand sanitizer* terhadap penurunan angka kuman telapak tangan sesudah pemakaian antara 20 menit, 40 menit dan 60 menit.

Kesimpulannya adalah berdasarkan deskriptif ada pengaruh lama waktu kontak *hand sanitizer* terhadap penurunan angka kuman telapak tangan dan diperoleh waktu efektif *hand sanitizer* minyak jeruk (*Citrus sinensis*) yaitu 40 menit sebesar 80%.

Kata Kunci : lama waktu kontak, *hand sanitizer*, minyak jeruk, angka kuman

Kepustakaan : 12 Buku, 37 Jurnal

CONTACT TIME OF THE ORANGE OIL AS HAND SANITIZER ON THE REDUCTION IN THE NUMBER OF PALM GERM ESSENCE

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ABSTRACT

Based on earlier research of hand sanitizer concentration citrus oil 40% after 15 minutes of usage are able to lower the number of germs hands 80%. Results 80% decrease that does not vary much between each repetition for 15 minutes because of that researchers want to develop to find out the decline in numbers of germs hands after discharging 20 minutes, 40 minutes and 60 minutes the concentration of 40% for the sake of gain time effective contacts and results decline differ greatly. The purpose of this research is determine the effect of contact time of range oil hand sanitizer (*Citrus sinensis*) on decreasing the amount of palm oil after using.

The method of this research is *Quasi Experiment with the "Time Series Design"*. Sampling was carried out by BBTKLPP on the palms of food handlers in Sehati canteen in the Poltekkes and the examination continued at BBTKLPP. Data analysis using the *Kruskall-Wallis Test*.

The results of this research are the average decrease in the highest number of germs, namely the use of hand sanitizer after 40 minutes was 80% and the lowest germ rate measurement was after 60 minutes of 50%. The result of the *Kruskall-Wallis Test* analysis showed a *p-value* of $0,434 > 0,05$ the meaning that there was no effect on the hand sanitizer contact time to decrease the number of hand germs after using between 20 minutes, 40 minutes and 60 minutes.

The conclusion is based on the descriptive method there is the effect of the hand sanitizer contact time on the reduction in the number of palm germs and the effective time of orange oil hand sanitizer which is 40 minutes by 80%.

Keywords : contact time, hand sanitizer, orange oil, germ number

Literature : 12 Books, 37 Journals