

Abstrak

Husna Qilan Sadida

**EFEKTIFITAS VARIASI LAMA PAPARAN SINAR UV-C TERHADAP
PENURUNAN ANGKA KUMAN PADA ALAT MAKAN
DI DAPUR PT. NAGASAKTI KURNIA TEXTILE MILLS**

viii + 64 Halaman + 12 Tabel + 10 Gambar + 10 Lampiran

PT. Nagasakti Kurnia Textile Mills adalah industri yang terletak di Dayeuhkolot, Bandung dan bergerak dibidang tekstil. Hasil pemeriksaan laboratorium awal angka kuman pada alat makan di PT. Nagasakti Kurnia Textile Mills tidak memenuhi syarat berdasarkan Permenkes No.1096 Tahun 2011 dengan persyaratan total angka kuman adalah 0 koloni/cm² luas permukaan alat makan, hasil pemeriksaan angka kuman rata-rata sebesar 470,307 koloni/cm² luas permukaan alat makan; 203,557 koloni/cm² luas permukaan alat makan; dan 444,243 koloni/cm² luas permukaan alat makan. Tujuan penelitian ini adalah untuk mengetahui efektifitas variasi lama paparan sinar UV-C terhadap alat makan di PT. Nagasakti Kurnia Textile Mills. Variasi yang digunakan berjumlah tiga yaitu variasi lama paparan sinar UV-C 25 menit, 35 menit dan 45 menit dengan pengulangan sebanyak 6 kali. Jenis penelitian yang dilakukan adalah eksperimen dengan desain penelitian adalah *pre-post-test*. Populasi pada penelitian ini adalah 450 buah alat makan yang terdapat di dapur. Sampel yang diambil berjumlah 36 sampel dengan teknik pengambilan sampel adalah *random sampling*. Berdasarkan hasil pemeriksaan rata-rata persentase penurunan angka kuman dengan lama paparan 25 menit adalah 48%, 35 menit adalah 71% dan 45 menit adalah 100%. Hasil penurunan yang paling tinggi yaitu pada lama paparan 45 menit. Hasil uji statistik menggunakan uji *One Way Anova* diperoleh *p-value* 0,000 sehingga terdapat perbedaan yang signifikan antara variasi lama paparan lampu ultraviolet terhadap penurunan angka kuman pada alat makan di PT. Nagasakti Kurnia Textile Mills. Saran dalam penelitian ini yaitu memodifikasi tempat penyimpanan alat makan menggunakan bahan *stainless steel* untuk memperbanyak alat makan yang dapat masuk kedalam lemari.

DAFTAR PUSTAKA : 35 (2007-2019)

KATA KUNCI : Angka Kuman, Alat Makan, Lama Paparan, Sinar Ultraviolet, Sterilisasi Alat Makan.

Abstract

Husna Qilan Sadida

***EFFECTIVENESS OF VARIATION OF EXPOSURE UV-C RAYS ON THE
DECREASE OF GUM NUMBERS ON EATING TOOLS
IN THE KITCHEN OF PT. NAGASAKTI KURNIA TEXTILE MILLS***

viii + 64 Pages + 12 Tables + 10 Images + 10 Attachments

PT. Nagasaki Kurnia Textile Mills is an industry located in Dayeuhkolot, Bandung, and is engaged in textiles. Laboratory results of germ counts on cutlery at PT. Nagasaki Kurnia Textile Mills did not fulfill the requirements based on Permenkes No.1096 of 2011 with the requirement that the total number of germs be 0 colonies/cm² of the surface area of cutlery, the results of an inspection of germs on average amounted to 470,307 colonies/cm² of the surface area of cutlery; 203,557 colonies/cm² of the surface area of cutlery; and 444,243 colonies/cm² of the surface area of cutlery. The purpose of this study was to determine the effectiveness of exposure UV-C rays to eating tolls at PT. Nagasaki Kurnia Textile Mills. The variations used are three, duration of exposure UV-C rays 25 minutes, 35 minutes, and 45 minutes with 6 repetitions. This type of research is an experimental and research design is a pre-post-test. The population in this study were 450 pieces of cutlery in the kitchen. Samples taken amounted to 36 samples with a random sampling technique. Based on the results of the examination the average percentage reduction in the number of germs with a duration of 25 minutes is 48%, 35 minutes is 71% and 45 minutes is 100%. The highest decrease is at 45 minutes of exposure. Statistical test results using one way anova test obtained p-value 0,000 so that there is a significant difference between variations in the duration of ultraviolet light exposure to a decrease in the number of germs on cutlery at PT. Nagasaki Kurnia Textile Mills. The suggestion in this research is to modify a place to store cutlery made of stainless steel to increase the cutlery that can fit into the cupboard.

REFERENCES : 35 (2007-2019)

*KEY WORDS : Germ Numbers, Cutlery, Exposure Time, Ultraviolet, Sterilization of
Cutlery.*