

## Pesticide exposure, behavior of farmer, and activity of cholinesterase enzyme in blood of fertile women farmers

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20449401&lokasi=lokal>

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### Abstrak

Fertile women farmers are risky of suffering decrease of cholinesterase activity due to pesticide exposure. This study aimed to analyze relation between pesticide exposure and the exposure agent to cholinesterase activity of fertile women workers at Kedunguter Village. This study used cross-sectional design on 94 fertile women farmers in 2015. Data was collected by observation, interview and cholinesterase test. Data analysis used chi-square test and analysis results showed a significant relation between pesticide types, working time, the use of gloves, hand-washing behavior to cholinesterase activity of fertile women farmers. Analysis results of this study showed that variable working time had the highest odds ratio (OR) score (OR = 14.072), so the variable working time is the most dominant variable in influencing cholinesterase enzyme. This study suggests that fertile women farmers should work not more than six hours per day.

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Petani perempuan usia subur berisiko mengalami penurunan aktivitas kolinesterase akibat pajanan pestisida. Penelitian ini bertujuan untuk menganalisis hubungan antara pajanan pestisida dan perilaku pemajan terhadap aktivitas kolinesterase petani perempuan usia subur di Desa Kedunguter. Penelitian ini menggunakan desain potong lintang pada 94 petani perempuan usia subur tahun 2015. Pengumpulan data dilakukan secara observasi, wawancara, dan uji kolinesterase. Analisis data menggunakan uji kai kuadrat dan hasil analisis menunjukkan hubungan signifikan antara jenis pestisida, waktu kerja, penggunaan sarung tangan, perilaku mencuci tangan terhadap aktivitas kolinesterase petani perempuan usia subur. Hasil analisis pada penelitian ini menunjukkan bahwa variabel waktu kerja memiliki nilai odds ratio (OR) tertinggi, yaitu OR = 14,072 sehingga waktu kerja merupakan variabel paling dominan dalam memengaruhi enzim kolinesterase. Penelitian ini menyarankan agar petani perempuan usia subur tidak bekerja lebih dari enam jam per hari.