

ABSTRAK

Yulandari Nusi. 2015. Skripsi.” Kajian Kadar Merkuri Pada Urin Pekerja Tambang Emas Di Desa Hulawa”. Jurusan Biologi, Fakultas Matematika Dan IPA. Universitas Negeri Gorontalo. Pembimbing I Dra. Aryati Abdul, M.Kes Pembimbing II Dr. Asep S. Abdurrahmat.S.Pd, M. Kes.

Penelitian ini bertujuan untuk mengetahui hubungan usia, lama kerja, dan Indeks Massa Tubuh dengan kadar merkuri (Hg) pada urin pekerja tambang emas di Desa Hulawa. Pengumpulan data dilakukan melalui observasi, pemeriksaan laboratorium dan kuesioner, serta menggunakan analisis korelasi dan regresi ganda. Hasil korelasi dan regresi ganda menunjukkan bahwa usia memiliki hubungan yang kuat dengan kadar Hg urin yang memenuhi persamaan $X = 0,617Y$. Lama kerja memiliki hubungan yang kuat dengan kadar Hg urine yang memenuhi persamaan $X = 0,697Y$. Indeks Massa Tubuh (IMT) memiliki hubungan yang cukup kuat dengan kadar Hg urine yang memenuhi persamaan $X = 0,526Y$. Besarnya hubungan antara usia, lama kerja dan indeks massa tubuh (IMT) secara simultan terhadap kadar Hg urine penambang emas di Hulawa adalah 0,74 yang menunjukkan pengaruh yang kuat. Besarnya kontribusi secara simultan dari variabel usia, lama kerja dan indeks massa tubuh (IMT) terhadap kadar Hg urine penambang emas di Hulawa adalah 54,7 % sedangkan sisanya sebesar 45,3 % kadar Hg urine penambang emas di Hulawa ditentukan oleh variabel lain yang tidak diteliti.

Kata Kunci : *Merkuri, Urin, Penambang Emas*

ABSTRACT

Yulandari Nusi. 2015. Skripsi. "A Study on Mercury Level of Urine of Gold Mineworkers at Hulawa Village." Department of Biology, Faculty of Mathematics and Natural Science, State University of Gorontalo. The principal supervisor was Dra. Aryati Abdul, M.Kes and Co-supervisor was Dr. Asep S. Abdurrahmat, S.Pd, M.Kes.

This research aimed at investigating the correlation between age, working period, and body mass index with mercury level of urine of gold mineworkers at Hulawa Village. The techniques of data collection were observation, laboratory check and questionnaire. The data analysis used correlation and multiple regression analysis. The correlation and multiple regression analysis result showed that age had strong correlation with Hg level of urine which gained the formula $X = 0.617Y$, working period had strong correlation with level of Hg urine which gained the formula as $X = 0.697Y$, and Body Mass Index had moderate correlation with level of Hg urine which gained the formula as $X = 0.526Y$. The value of the correlation between age, working period, and body mass index simultaneously with Hg level of urine of gold mineworkers at Hulawa village was 0,74 which showed the strong correlation. The contribution of age, working period, and body mass index simultaneously toward Hg level of urine of gold mineworkers at Hulawa Village was 54,7%, while the rest 45,3% was determined by other factors that did not observed in this research.

Keywords: Mercury, Urine, Gold Mineworkers

