

INTISARI

Elisabeth Yessy Wulandari. NIM 1191024. Gambaran Kadar COHb Darah Petugas Parkir *Basement* Pada Salah Satu Mall Di Kota Surakarta.

CO merupakan gas beracun non-iritan yang tidak berwarna maupun berbau sehingga gas CO tidak dapat dideteksi oleh manusia melalui rasa maupun bau. CO berasal dari pembakaran karbon pada bahan bakar berupa bensin, solar, kayu bakar, gas alam, atau batubara dengan tekanan panas yang tinggi. CO lebih mudah mengikat hemoglobin daripada O₂ dengan nilai tingkat afinitas sebesar 245 kali. Hal tersebut menyebabkan terhambatnya pengikatan hemoglobin dengan oksigen. CO yang telah mengikat hemoglobin akan membentuk karboksihemoglobin (COHb).

Penelitian ini bertujuan untuk mengetahui gambaran kadar karboksihemoglobin pada petugas parkir *basement* disalah satu mall di kota Surakarta. tim basket STIKES Nasional.

Kadar COHb pada petugas parkir di salah satu mall di Kota Surakarta dengan kode sampel A1 memiliki kadar 0,62% ; Sampel A2=0,79%, Sampel A3=0,60%, Sampel A4=0,68%, Sampel A5=0,66%.

Data karboksihemoglobin kemudian dikategorikan sesuai dengan standart normal menurut Peraturan Menteri Kesehatan Republik Indonesia Nomer 70 Tahun 2016 Tentang Standar Dan Persyaratan Kesehatan Lingkungan Kerja Industri yaitu kurang dari 3,5% dalam aliran darah. Didapatkan kadar COHb tertinggi pada kode A2 yaitu 0,79% sedangkan terendah pada kode A1 sebesar 0,62% normal atau tidak melampaui ambang batas normal.

Kata kunci : COHb,petugas parkir basement,sel difusi Conway.

ABSTRACT

Elisabeth Yessy Wulandari. NIM 1191024. Description of Officer's Blood COhb Levels Basement Parking at One of The Mall In Surakarta City.

CO is a non-irritant toxic gas that has no color or odor so that CO gas cannot be detected by humans through taste or smell. CO comes from burning carbon in fuels such as gasoline, diesel, firewood, natural gas, or coal with high heat pressure. CO binds to hemoglobin more easily than O₂ with an affinity value of 245 times. This causes inhibition of the binding of hemoglobin with oxygen. CO that has bound hemoglobin will form carboxyhemoglobin (COHb).

This study aims to determine the description of carboxyhemoglobin levels in basement parking attendants in one of the malls in the city of Surakarta. National STIKES basketball team.

COHb levels in parking attendants at a mall in Surakarta City with sample code A1 had levels of 0.62%; Sample A2 = 0.79%, Sample A3 = 0.60%, Sample A4 = 0.68%, Sample A5 = 0.66%.

The carboxyhemoglobin data is then categorized according to the normal standard according to the Regulation of the Minister of Health of the Republic of Indonesia Number 70 of 2016 concerning Standards and Requirements for Health in the Industrial Work Environment, which is less than 3.5% in the bloodstream. The highest COHb level was found in code A2, which was 0.79%, while the lowest in code A1 was 0.62%, normal or not exceeding the normal threshold.

Keywords: COHb, basement parking attendant, Conway diffusion cell.