INTISARI

Elsa Mayori Pamungkas. NIM 1201026. *Gambaran Kadar Timbal dalam Rambut pada Pekerja Ojek Online berdasarkan Usia di Wilayah Solobaru.*

Timbal yang tersebar melalui udara dapat memperburuk kualitas udara sehingga terjadi akumulasi timbal dalam tubuh dan dapat mempengaruhi aktivitas fisik. Berdasarkan uraian tersebut maka dilakukan penelitian menggunakan sampel rambut dengan tujuan untuk mengetahui apakah rambut pada pekerja ojek *online* terpapar logam berat timbal.

Jenis penelitian yang dilakukan adalah deskriptif. Penelitian dilaksanakan di Balai Laboratorium dan Kalibrasi Yogyakarta pada bulan Februari 2023. Sampel dalam penelitian berupa rambut pekerja ojek online dengan jumlah 10 sampel yang telah memenuhi kriteria. Data penelitian diperoleh diperoleh melalui kuisioner dan sampel rambut diuji menggunakan Spektrofotometer Serapan Atom.

Hasil penelitian menunjukkan kadar timbal pada pekerja ojek online yang diuji menggunakan alat Spektrofotometer Serapan Atom (SSA) diperoleh hasil: 0,7817 μg/g; 2,0917 μg/g; 0,6045 μg/g; 0,6210 μg/g; 0,3191 μg/g; 2,4239 μg/g; 1,1067 μg/g; 4,5903 μg/g; 0,8983 μg/g; 0,4668 μg/g. Kadar timbal yang paling tinggi adalah 4,5903 μg/g dan yang paling rendah adalah 0,3191 μg/g.

Berdasarkan penelitian yang telah dilakukan dapat disimpulkan bahwa terdapat kadar timbal yang tidak melebihi ambang batas pada pekerja ojek *online* di Wilayah SolobaruDari data tersebut diketahui terdapat 10 sampel rambut dari pekerja ojek *online* dengan kadar timbal yang tidak melebihi ambang batas.

Kata kunci : Pekerja Ojek *Online*, Spektrofotometer Serapan Atom, Timbal, Usia.

ABSTRACT

Elsa Mayori Pamungkas. NIM 1201026. *Description of Heavy Metal Lead in the Hair of Online Driver Based on Age in Solobaru Area*.

Lead that is spread through the air can worsen air quality resulting in accumulation of lead in the body and can affect physical activity. Based on this description, a study was carried out using hair samples which have a high chance of containing high levels of lead in online driver who are often exposed to air pollution on the highway. In this case age is quite influential because the older a person is, the immune system will decrease.

This type of research is descriptive. The research was carried out at the Yogyakarta Laboratory and Calibration Center in February 2023. The samples in the study were the hair of online driver with a total of 10 samples that met the criteria. The research data were obtained through questionnaires and hair samples were tested using an Atomic Absorption Spectrophotometer.

The results showed that the lead levels in online motorcycle taxi workers were tested using an Atomic Absorption Spectrophotometer (AAS) and the results were: 0,7817 µg/g; 2,0917 µg/g; 0,6045 µg/g; 0,6210 µg/g; 0,3191 µg/g; 2,4239 µg/g; 1,1067 µg/g; 4,5903 µg/g; 0,8983 µg/g; 0,4668 µg/g. The highest lead content was 4.5903 µg/g and the lowest was 0.3191 µg/g.

Based on the research that has been done it can be concluded that there are levels of lead that dont exceed the threshold. From these data it is known that there are 10 hair samples from online driver with lead levels that not exceed the threshold in Solobaru area.

Keyword : *Online* Driver, Atomic Absorption Spectrophotometer, Lead, Age.