

Analisis Risiko Paparan Sulfur Dioksida (SO₂) dan Gejala Gangguan Saluran Pernapasan pada Ibu Rumah Tangga yang Tinggal di Sekitar Industri Baja Sukadanau, Cikarang Barat, Kabupaten Bekasi Tahun 2019

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Abstrak

This thesis discusses the risk of SO₂ exposure to the respiratory tract. SO₂ exposure through inhalation can irritate the respiratory tract which triggers respiratory symptoms. SO₂ is one of the gases emitted by the steel industry. People who live in industrial areas can be exposed to SO₂ more often and experience health impacts.
This study aims to determine the level of risk and influence of SO₂ exposure to respiratory tract symptoms in housewives living around the steel industry. This study uses the Environmental Health Risk Assessment (EHRA) approach to estimate the health risk in the area around the steel industry and uses the design of a cross-sectional study to illustrate the effect of intake SO₂ on respiratory symptoms carried out in November - December 2019.
Samples in this research numbered 109 housewives obtained by proportional stratified random sampling. SO₂ concentrations were measured at 9 points in 3 zones around the steel industry by the pararosanilin method and analyzed by spectrophotometer.
The results showed that Sukadanau Village has an RQ (Risk Quotient) ≤ 1. As many as 39,4% of housewives experience symptoms of respiratory tract disorders and obtained no influence of intake SO₂ on respiratory symptoms. Recommendations that can be developed to carry out risk management in areas around the steel industry are monitoring SO₂ concentrations on a regular basis so that SO₂ remains at safe concentrations $\leq 0,201$ mg/m³