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Articles

Literature Review: Data Quality Assessment Methods Of Electronic Tuberculosis Recording And Reporting

Atha Rifqia Pradana, Cahya Tri Purnami, Atik Mawarni

1-15

 [File PDF](#)

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Microbial Risk Assessment Of Indoor Airborne Microbe In The Community Health Center In Semarang City

Erna Handayani, Mursid Raharjo, Yusniar Hanani Darundiati

16-26

 [File PDF](#)

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Factors That Are Related To Bronchitis In Employees In The Cement Warehouse Unit Ambon City

Kornelis U. Rumselly, **Suhartono**, Sulistiyani

27-36

 [File PDF](#)

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Implementation Of Prevention Of Mother To Child Hiv Transmission Programs In The Antenatal Care Service By Midwife In The Health Center Of Wringin Resources In Bondowoso

Ayu Sukma Pratiwi

37-49

 [File PDF](#)

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Factors That Are Related To Bronchitis In Employees In The Cement Warehouse Unit Ambon City

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Abstract

Respiratory system disorders are a major cause of morbidity and mortality. Respiratory system disorders include infectious and non-communicable diseases. Acute bronchiolitis is inflammation of the bronchioles which is characterized by shortness of breath, wheezing, and pulmonary hyperinflation. Cement dust is one of the factors causing Chronic Obstructive Pulmonary Disease (COPD) that enters through breathing (inhalation). There are 2 types of Chronic Obstructive Pulmonary Disease caused by exposure to cement dust namely, chronic bronchitis and emphysema.

Cross sectional, which is a study to study the dynamics of correlation between risk factors and impacts or effects, by observing or collecting data at the same time (point time approach). In this cross sectional study the researcher wanted to find out the relationship between risk factors and effects or effects by taking a momentary measurement. Thus a cross sectional study is to assess risk factors in the event of an effect. Measurement of independent variables and dependent variables is done only once, namely at the same time

The average age of UPS employees PT. Semen Tonasa Gudang Arang Ambon City year 2020 is 36.1 years with the youngest age is 20 years and the oldest age is 53 years, Minimum respondent's service period is 1 year and maximum is 9 years, with a minimum length of work kerja 8 hours of work and a maximum of 10 hours of work . For the average respondent's body height is 61.5 kg, with a minimum of 47 kg and a maximum of 83 kg, while for the average body weight of the respondent is 162.9 cm with a maximum of 145 and a maximum of 173 cm.

The results of the measurement of cement dust levels above show that: 38 employees (95%) work in work areas that have a dust content > NAB, ie in Production 1 there are 19 people (47.5%) with cement dust levels of 7.58 mg / m³ , Production area 2 there are 19 employees (47.5%) with cement dust content of 7.25 mg / m³, while in the parking lot there are 2 employees namely 2 security (5%) who work with dust content <NAV ie 3, 87 mg / m³. Based on the measurement results, it is known that in the work area of production 1, and production 2 has a dust content of cement > NAV and has the potential to cause lung function disorders resulting in bronchitis.

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Issue

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Section

Articles

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