Vol. 9 No. 1 Maret 2013 ISSN : 1829 - 7773



JURNAL ILMU KESEHATAN MASYARAKAT



Diterbitkan Oleh : FAKULTAS KESEHATAN MASYARAKAT **UNIVERSITAS JEMBER**

IKESMA	Vol. 9	No. 1	Halaman 1 - 73	Jember Maret 2013	ISSN : 1829 - 7773

ISSN: 1829 - 7773

IKESMA

Jurnal Ilmu Kesehatan Masyarakat Vol. 9 No. 1 Maret 2013

Diterbitkan sejak Maret 2005 berisi tulisan yang diangkat dari hasil penelitian atau kajian analisis-kritis di bidang ilmu kesehatan masyarakat

Dewan Penyunting

Penanggung Jawab Dekan Fakultas Kesehatan Masyarakat

> Pengarah Abu Khoiri, S.KM., M.Kes.

Ketua Penyunting Andrei Ramani, S.KM., M.Kes.

Sekretaris Penyunting Dewi Rokhmah, S.KM., M.Kes.

Anggota Penyunting Dr. Isa Ma'rufi, S.KM., M.Kes. dr. Pudjo Wahjudi, M.S. Nuryadi, S.KM., M.Kes. Leersia Yusi Ratnawati, S.KM., M.Kes. Rahayu Sri Pujiati, S.KM., M.Kes. Novia Luthviatin, S.KM., M.Kes. Ni'mal Baroya, S.KM., M.PH.

Penyunting Ahli

Prof. dr. R. Bambang Wirjatmadi, M.S., MCN., Ph.D., Sp.GK. (UNAIR) Prof. Dr. Tjipto Suwandi, dr., M.OH., Sp.OK. (UNAIR) Prof. Soedjajadi Keman, dr., M.S., Ph.D. (UNAIR) Prof. Dr. Sudijanto Kamso, dr., S.KM. (UI) dr. Adang Bachtiar, M.PH., Sc.D. (UI) Prof. Dr. Ir. Tejasari, M.Sc. (UNEJ)

> Editor Teknis dan Distributor Eri Witcahyo, S.KM., M.Kes.

> > Pelaksana Administrasi Subiyantoro, S.E. Mahfud Husairi Dany Rahman

Terbit dua kali setahun, Maret & September

Alamat penyunting :FKM Universitas Jember Jl. Kalimantan 37 Jember 68121 Telp/Fax. 0331-322995, 337878 email : jikesma@g.mail.com Contact Person : 081215400530

Penyunting menerima sumbangan tulisan yang belum pernah diterbitkan di media lain dengan persyaratan pemuatan naskah disajikan pada cover luar bagian dalam

Vol. 9 No. 1 Maret 2013

.

ISSN: 1829 - 7773

IKESMA Jurnal Ilmu Kesehatan Masyarakat

化活剂

Pengaruh Penurunan Kualitas Udara Terhadap Fungsi Paru Dan 1 - 8 Keluhan Pernafasan Pada Polisi Lalu Lintas Polwiltabes Surabaya *Christyana Sandra*

Faktor Yang Berhubungan Dengan Hambatan Diet Diabetes Mellitus 9 - 17 Pada Pasien Diabetes Mellitus Tipe 2 Di Wilayah Kerja Puskesmas Wonosari Kabupaten Bondowoso Rondhianto

Penerapan Pendekatan *Positive Deviance* dalam Menanggulangi 18-26 Masalah Malnutrisi pada Balita Melalui Program Pos Gizi *Dian Ayubi, Nurdianaturrahma Budi Rahayu, Yulianti*

Hubungan Pengetahuan Ibu Tentang Stimulasi Dini Dengan 27-38 Perkembangan Motorik Pada Anak Usia 6-24 Bulan Di Kecamatan Mayang Kabupaten Jember

Irawan Fajar Kusuma, Ramzi Syamlan, Ayu Yoniko

Gambaran Pelaksanaan Kegiatan KIA Di Kabupaten Serang 39 - 47 Eri Witcahyo, Isa Ma'rufi

Analisis Kinerja Bidan Desa Dalam Pelayanan Neonatus Di Wilayah 48 - 55 Puskesmas Kabupaten Lumajang Jawa Timur Jamhariyah

Perubahan Sikap Akseptor Sebelum Dan Sesudah Konseling Tentang 56-64 Pemeriksaan Ulang Pasca Pemasangan IUD Di Desa Mangaran Kecamatan Ajung Tahun 2011 Ratna Suparwati, Lulut Sasmito, Misiyem

Pengaruh Teknik Relaksasi Terhadap Adaptasi Nyeri Persalinan Ibu 65 - 73 Bersalin Kala I Fase Aktif Di BPS Wilayah Puskesmas Patrang Kabupaten Jember Tahun 2012 Moh. Wildan, Jamhariyah, Yuniasih Purwaningrum

PENGARUH PENURUNAN KUALITAS UDARA TERHADAP FUNGSI PARU DAN KELUHAN PERNAFASAN PADA POLISI LALU LINTAS POLWILTABES SURABAYA

EFFECT OF POOR AIR QUALITY ON LUNG FUNCTION AND RESPIRATORY COMPLAINTS AMONG TRAFFIC POLICEMEN, POLWILTABES SURABAYA

Christyana Sandra*

ABSTRACT

Some of the air pollutants that may result in respiratory complaints are NO₂, SO₂, and dust particles. These pollutants may irritate respiratory tract, leading to lung function impairment and respiratory complaints. The objective of this study was to analyze the concentration of NO₂, SO₂, and dust in Surabaya. This was an observational analytic study conducted crosssectionally among traffic policemen and staff policemen in Polwiltabes Surabaya. This study was conducted within the working area of Polwiltabes Surabaya from December 2007 to July 2008. Population of study group was the members of traffic policemen and control group was staff policemen who had met the given criteria. Sample size was 42 persons, 21 persons each from study group and control group. Data analysis used independent two sample t test and multiple logistic regression test. Mean of NO₂ and dust levels had exceeded the established standard, while mean of SO₂ level was still below its established standard. Mean of indoor NO₂ SO₂ and dust levels were still below the established standard. Lung function test revealed that 13 (61.9%) of study group had normal lung function and 8 (38.1%) had mild restrictive impairment. In control group, 19 (76.2%) had normal lung function and 2 (23.8%) had mild restrictive impairment. Study group had restrictive impairment 4 time higher risk and 1,4 time higher risk having obstruction impairment than control group. Study group had respiratory complaints 2 time higher risk than control group. Method of data analysis using multiple logistic regression test revealed that age and SO₂ concentration had significantly affected lung function and respiratory complaints in study group. It must be consider that poor air quality have causative factor into lung function. It is recommended that local government increased public transportation service, provide additional air quality monitoring, transportation arrangement system, and motor exhaust gas should periodically be checked.

Keywords: air pollution, respiratory complaints, lung function, traffic police

*Christyana Sandra adalah Dosen Fakultas Kesehatan Masyarakat Universitas Jember