COMPARISON BETWEEN THE RESULTS OF ACID FAST BACILLI OBTAINED FROM SPONTANEOUS SPITUM WITH SPITUM INDUCTION BY SALINE 0.9 % AND BY SALBUTAMOL NEBULES IN THE DIAGNOSIS OF SPITUM SMear NEGATIVE PULMONARY TUBERCULOSIS
(Kusdiantoro, M. Junis Wibisono)

ROLE OF FREE RADICALS IN CHILDREN WITH MALNUTRITION
(Taufiqur Rahman, Siti Nurlil Hidayati, Boeman Hidayat)

EFFECT OF PROBIOTIC ADMINISTRATION ON THE LEVELS OF FECAL SECRETORY IMMUNOGLOBULIN A IN PREMATURE INFANTS
(Lucia Pudiyastuti Retnavilinggjia, Risa Elka, Subijanto Merto Sudarmo)

THE IMPLEMENTATION OF HIDDEN MARKOV MODEL FOR EXON PREDICTION ON DNA-GENE PLASMODIUM FALCIPARUM
(Suhartati Agnes, Dadang Gunawan, Sari Sandy)

CORRELATION BETWEEN COX-2 EXPRESSION WITH HISTOPATHOLOGICAL GRADING IN ASTROCYTOMA
(Enlano Sufarnap, M. Sajid Damadipura)

EFFECT OF LOW LEAD EXPOSURE ON GESTATIONAL AGE, BIRTH WEIGHT AND PREMATURITY RUPTURE OF THE MEMBRANE
(Zein Mithaeni, Taufiek Zain)

DIAGNOSTIC ACCURACY OF PRE-OPERATIVE FINE NEEDLE ASPIRATION BIOPSY IN AMELOBLASTOMA
(Anny Setijo Rahaj, Dyah Fauziah, Elty Hary Kusumastuti)

CHEMICAL ANALYSIS OF LORANTHACEAE DAENDROPOHAE SP. BY THIN LAYER CHROMATOGRAPHY
(Roostantia Indrawati, Anfa Mustika, Nuraini Farida)

MOLECULAR CHARACTERIZATION OF mexB GENE FRAGMENT IN BANDUNG ISOLATE MULTIRRESISTANT PSEUDOMONAS AERUGINOSA
(Femrawaty Radaruddin, Imam Supardi, Usman Chahb Wansa, Debbie Soesilo Retnoringrum)

GRACILIS MUSCLE TRANSPOSITION FOR TRAUMATIC ANAL INCONTINENCE A Case Report
(Tomy Lesmana, Iwan Kristiyan, Sudjetrmiko)

Review Article
MANAGEMENT OF POLYCYSTIC OVARY SYNDROME IN ADOLESCENT
(Budi Santoso)

THE CLINICAL FEATURES OF TRANSIENT ELASTOGRAPHY (FIBROSCAN) EXAMINATION AMONG LIVER DISEASES PATIENTS AT GASTROENTEROHEPATOLOGY DIVISION OF DR. SOETOMO HOSPITAL, SURABAYA
(Iswan A Rudi et al.)
# Table of Contents

<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>COMPARISON BETWEEN THE RESULTS OF ACID FAST BACILLI OBTAINED FROM SPONTANEOUS SPUTUM WITH SPUTUM INDUCTION BY SALINE 0.9 % AND BY SALBUTAMOL NEBULES IN THE DIAGNOSIS OF SPUTUM SMEAR NEGATIVE PULMONARY TUBERCULOSIS</td>
<td>1 - 6</td>
</tr>
<tr>
<td>2</td>
<td>ROLE OF FREE RADICALS IN CHILDREN WITH MALNUTRITION</td>
<td>7 - 14</td>
</tr>
<tr>
<td>3</td>
<td>EFFECT OF PROBIOTIC ADMINISTRATION ON THE LEVELS OF FECAL SECRETORY IMMUNOGLOBULIN A IN PREMATURE INFANTS</td>
<td>15 - 23</td>
</tr>
<tr>
<td>4</td>
<td>THE IMPLEMENTATION OF HIDDEN MARKOV MODEL FOR EXON PREDICTION ON DNA-GENE Plasmodium falciparum</td>
<td>24 - 29</td>
</tr>
<tr>
<td>5</td>
<td>CORRELATION BETWEEN COX-2 EXPRESSION WITH HISTOPATHOLOGICAL GRADING IN ASTROCYTOMA</td>
<td>30 - 35</td>
</tr>
<tr>
<td>6</td>
<td>EFFECT OF LOW LEAD EXPOSURE ON GESTATIONAL AGE, BIRTH WEIGHT AND PREMATURE RUPTURE OF THE MEMBRANE</td>
<td>36 - 40</td>
</tr>
<tr>
<td>7</td>
<td>DIAGNOSTIC ACCURACY OF PRE-OPERATIVE FINE NEEDLE ASPIRATION BIOPSY IN AMELOBLASTOMA</td>
<td>41 - 44</td>
</tr>
<tr>
<td>8</td>
<td>CHEMICAL ANALYSIS OF Loranthaceae daendropthoe sp. BY THIN LAYER CHROMATOGRAPHY</td>
<td>45 - 49</td>
</tr>
<tr>
<td>9</td>
<td>MOLECULAR CHARACTERIZATION OF mexB GENE FRAGMENT IN BANDUNG ISOLATE MULTIRESISTANT Pseudomonas aeruginosa</td>
<td>50 - 59</td>
</tr>
<tr>
<td>10</td>
<td>GRACILIS MUSCLE TRANSPOSITION FOR TRAUMATIC ANAL INCONTINENCE A Case Report</td>
<td>60 - 65</td>
</tr>
<tr>
<td>11</td>
<td>Review Article: MANAGEMENT OF POLYCYSTIC OVARY SYNDROME IN ADOLESCENT</td>
<td>66 - 71</td>
</tr>
<tr>
<td>12</td>
<td>THE CLINICAL FEATURES OF TRANSIENT ELASTOGRAPHY (FIBROSCAN) EXAMINATION AMONG LIVER DISEASES PATIENTS AT GASTROENTEROHEPATOLOGY DIVISION OF DR. SOETOMO HOSPITAL, SURABAYA</td>
<td>72 - 77</td>
</tr>
</tbody>
</table>
Abstract

Lead pollution from cosmetics remains a significant public health problem not only to men at work but to women using lead containing cosmetics. The aim of this study is to find out the effect of prenatal exposure to low lead from cosmetics on gestational age, premature rupture of the membrane and birth weight. The study was carried out in the mountainous Aseer region, Southwest of Saudi Arabia where the air is thought to be clean and free of lead pollution due to the absence of petroleum smelting and other heavy industries. The region is famous as a holiday resort for tourists from Arabia and the gulf countries. All 176 pregnant women included in the study were of singleton pregnancies of gestational age 27 weeks or more who attended the antenatal outpatient clinic of the main maternity hospital. On the day of delivery 4 milliliters of venous blood from each singleton parturient was placed in a heparinized non-silica containing tube and stored at -20°C prior to analysis. In premature rupture of the membrane a total of 127 women with maternal blood lead levels above and below 200 mg/L and 150 mg/L, no significant differences (P=0.64) in these lead levels. Ninety-four (70.1%) women out of 134 have maternal blood lead concentration < 200 μg/L and only 40 women have > 200 μg/L, the mean difference in gestational age is 10.5 days, showing a non significant difference (P=0.152). Ninety-three women (72.7%) out of a total of 128 who have blood lead concentration <200 mg/L gave birth to infants weighing an average of 2.87 kg while 35 women who have blood lead level >200 mg/L gave birth to infants weighing an average of 2.99 kg. The mean difference is 0.12 kg which is non-significant (P=0.261). The Chi-square test of the relationship between the birth weight (kg) and the levels of blood lead above and below 200 mg/L was not significant while the relationship between the birth weight (kg) and the levels of blood lead above and below 150 mg/L resulted in very slight differences in the values of infants’ birth weight. It is concluded that the detected low lead exposures do not produce statistically significant effects on the above three pregnancy outcome. However, the importance of low lead exposure from the 100% lead sulfide eye cosmetic ‘kohl’ is emphasized.

Keyword : lead, exposure, gestational, age, birth, weight, premature, rupture, of, the, membrane,

Daftar Pustaka :