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TOXOPLASMA GONDII INFECTION ELICITS THE INCREASE OF FAS EXPRESSION ON THE TROPHOBLAST ASSOCIATED WITH THE INCREASE OF TROPHOBLAST APOPTOSIS
(Lucie Tri Sulianti, Rachman Sesmita, Suhartono Taet Putra)

EFFECT OF LASER AT PISHU POINT ON AMOUNT AND FUNCTION OF PANCREATIC β CELLS (RATTUS NORVEGICUS) INJECTED BY STREPTOTOCIN
(Abdurechman)

THE EFFECTS OF UNILATERAL URETHRAL OBSTRUCTION ON TUBULAR CELLS APOPTOSIS. AN EXPERIMENTAL STUDY IN RABBITS
(Daryanto B, Soebadi DM, Seetojo, Sunaryo Hardjowijoto)

ANTIMICROBIAL ACTIVITIES OF ANDROGRAPHOLIDE AND PROPOLIS AGAINST INTRACELLULAR MYCOBACTERIUM TUBERCULOSIS PHAGOCYTOSED BY MONOCYTES DERIVED MACROPHAGES
(Menrik R Wahyuwidari, Ni Made Mertaniasih, Dian Rechmawati)

THE 2-METHOXYETHANOL TOXICITY TOWARDS THE STRUCTURES OF PLASMA MEMBRANE AND MITOCHONDRIA OF THE RAT'S SPERMATOZOA
(Afiah Hayati, Soesanto Manikwoewidjojo, Aucky Hinton, Sukarti Moeljopawiro)

GENOTYPING OF EXTENDED SPECTRUM β-LACTAMASE ESCHERICHIA COLI STRAINS FROM CLINICAL SPECIMENS
(Ni Made Mertaniasih et al)

MULTIRESISTANCE PATTERN OF EXTENDED SPECTRUM β-LACTAMASE (ESBL) - ESCHERICHIA COLI AND KLEBSIELLA PNEUMONIAE STRAINS
(Kurnan, Ni Made Mertaniasih, and Usman Hadi)

FEV1-REVERSIBILITY IN HOUSE-DUST IMMUNOTHERAPY COMPARED WITH INHALED CORTICOSTEROID IN THE TREATMENT OF CHILDHOOD ASTHMA
(Arijanto Hersono, Lisa A. Subret, Aneng Enderyanto)

TRACHOMA IN PONDOK PESANTREN SALAPIYAH SYAFITIYAH, SUKOREJO, SITUBONDO, EAST JAVA. A CASE STUDY
(Sjamsu Budiono)

Review Article:
DEPRESSION IN POST-MYOCARDIAL INFARCTION PATIENTS
(Muhammad Ridwan)

Review Article and Clinical Experience:
THE MetS: ONE OF THE MAJOR THREAT TO HUMAN HEALTH
(Askendar Tjokroprawiro)

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<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Toxoplasma Gondii Infection Elicits The Increase of Fas Expression on The Trophoblast Associated with The Increase of Trophoblast Apoptosis</td>
<td>1 - 5</td>
</tr>
<tr>
<td>2</td>
<td>EFFECT OF LASER AT PISHU POINT ON AMOUNT AND FUNCTION OF PANCREATIC ß CELLS (RATTUS NORVEGICUS) INJECTED BY STREPTOZOTOCIN</td>
<td>6 - 14</td>
</tr>
<tr>
<td>3</td>
<td>The Effects of Unilateral Urethral Obstruction on Tubular Cells Apoptosis: An Experimental Study in Rabbits</td>
<td>15 - 21</td>
</tr>
<tr>
<td>4</td>
<td>Antimicrobial Activities of Andrographolide and Propolis Against Intracellular Mycobacterium Tuberculosis Phagocytosed by Monocytes Derived Macrophages</td>
<td>22 - 27</td>
</tr>
<tr>
<td>5</td>
<td>The 2-Methoxyethanol Toxicity Towards The Structures of Plasma Membrane and Mitochondria of The Ratâ€™s Spermatozoa</td>
<td>28 - 32</td>
</tr>
<tr>
<td>6</td>
<td>Genotyping of Extended Spectrum ß-Lactamase Escherichia Coli Strains from Clinical Specimens</td>
<td>33 - 39</td>
</tr>
<tr>
<td>7</td>
<td>MULTIRESISTANCE PATTERN OF EXTENDED SPECTRUM ß-LACTAMASE (ESBL) â€“ ESCHERICHIA COLI AND KLEBSIELLA PNEMONIAE STRAINS</td>
<td>40 - 46</td>
</tr>
<tr>
<td>8</td>
<td>FEV1-Reversibility in House-Dust Immunotherapy Compared with Inhaled Corticosteroid in The Treatment of Childhood Asthma</td>
<td>47 - 53</td>
</tr>
<tr>
<td>9</td>
<td>Trachoma in Pondok Pesantren Salafiyyah Syafiyyah, Sukorejo, Situbondo, East Java. A Case Study</td>
<td>54 - 61</td>
</tr>
<tr>
<td>10</td>
<td>Review Article: Depression in Post-Myocardial Infarction Patients</td>
<td>62 - 70</td>
</tr>
<tr>
<td>11</td>
<td>Review Article and Clinical Experience: THE MetS: ONE OF THE MAJOR THREAT TO HUMAN HEALTH</td>
<td>71 - 76</td>
</tr>
</tbody>
</table>
MULTIRESISTANCE PATTERN OF EXTENDED SPECTRUM ß-LACTAMASE (ESBL) Ò Æ “ ESCHERICHIA COLI AND KLEBSIELLA PNEUMONIAE STRAINS

Abstract

All specimens came in the Clinical Microbiology Laboratory of Dr. Soetomo Hospital Surabaya were prospectively studied since January 2005 until April 2005. The bacterial isolation and identification were performed using the standard method on the consecutive isolates. The biochemical reaction was performed by using the reagent of Microbact for Gram negative bacteria detection Microbact 12A (Medveg diagnostics). The susceptibility test was conducted by disk diffusion test according to NCCLS method. The phenotypic confirmation laboratory testing of ESBLs were conducted using ceftazidime disk (CAZ 30 ug) and ceftazidime plus clavulanic acid (CD 30ug/10ug) according to NCCLS and ESBLs determined using double disc (DD) synergy method. Prevalence of ESBL producing Escherichia coli and Klebsiella pneumoniae from clinical specimens were high 34.84 % (115/330) and 35.35% (105/297). Antimicrobial resistance pattern of ESBL-producing E. coli and Klebsiella pneumoniae to third generation cephalosporin were high resistant, i.e.: cefotaxim (90.4%), ceftriaxon (95.7%), ceftazidime (55.7%); 81.9%, 94.3%, 87.8% respectively. The resistance pattern against ciprofloxacin have similar figure with thirds generation cephalosporin. The alternative sensitive drugs against ESBL-producing bacteria were meropenem and fosfomycin.

Keyword : Extended, Spectrum, ß-Lactamase, (ESBL), multiresistance, Escherichia, coli, Klebsiella, pneumoniae,

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