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CHROMOSOME ANALYSIS FROM LYMPHOCYTE CULTURE IN SEXUAL AMBIGUITY PATIENT
(Nil Wijen Tirthaningsih, Susy Kristiani)

PATTERN OF TRANSFORMING GROWTH FACTOR-β1 (TGF-β1) LEVEL IN BPH AND NON-BPH PATIENTS
(Endang Retnowati, Siananto Darmadi, Soetjo, Magdalena Tobing)

CHANGES IN THE LEVEL OF ACTH, CORTISOL AND LYMPHOCYTE T COUNT AFTER ESTABLISHING
DIAGNOSIS OF HIV AND AIDS
(Nsronudin, Soehartono Taat Putra)

THE EFFECT OF AEROBIC EXERCISE ON THE ERYTHROCYTE OSMOTIC FRAGILITY OF THE WISTAR
WHITE RATS
(Sugiharto)

THE EQUATION ANALYSIS OF LINEAR PHARMACOKINETICS MODELS BY AKAIKE'S INFORMATION
CRITERION (AIC) OF DIMINAZENE ACETURATE IN BLOOD PLASMA
(Mochamad Lazuardi)

COMPARISON BETWEEN 0.1% DICLOFENAC NATRIUM AND 0.1% DEXAMETHASONE EYEDROPS IN
REDUCING CATARACT POSTOPERATIVE INFLAMMATION
(Moesistijab)

THE PHARMACOKINETICS OF LAMIVUDINE IN HEALTHY RABBIT TREATED WITH CIMETIDINE
(Aniek Setiyas Budianti, Toetik Aryan)

VALIDITY AND RELIABILITY OF RADAR QUESTIONNAIRE FOR PATIENTS WITH RHEUMATOID
ARTHRITIS
(Joeowo Soeroso)

HEIGHT MEASUREMENT BASED ON STERNAL BONE LENGTH IN ADULTS
(Agus Moch. Algozi, Ahmad Yuadianto)

ANTIMICROBIAL RESISTANCE AND ANTIBIOTIC USE IN LOW-INCOME AND DEVELOPING COUNTRIES
(Usman Hadi, Ermalik Atofo, Widjoesno Gardjito, Inge C Gysens, FJ van den Broek)

URETHRAL STRICTURE IN FEMALE
(Soetjo)

Review Article and Clinical Experience:
Selected Clinical Aspects, Clinical Experiences, and Possible Applications
(Askiendar Tjoekoprawiro)

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<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Chromosome Analysis from Lymphocyte Culture in Sexual Ambiguity Patient</td>
<td>139 - 141</td>
</tr>
<tr>
<td>2</td>
<td>Pattern of Transforming Growth Factor-(\beta_1) (TGF-(\beta_1)) Level in BPH and Non-BPH Patients</td>
<td>142 - 146</td>
</tr>
<tr>
<td>3</td>
<td>Changes in The Level of ACTH, Cortisol and Lymphocyte T Count After Establishing Diagnosis of HIV and Aids</td>
<td>147 - 152</td>
</tr>
<tr>
<td>4</td>
<td>The Effect of Aerobic Exercise on The Erythrocyte Osmotic Fragility of The Wistar White Rats</td>
<td>153 - 156</td>
</tr>
<tr>
<td>5</td>
<td>The Equation Analysis of Linear Pharmacokinetics Models By Akaike's Information Criterion (AIC) of Diminazene Aceturate in Blood Plasma</td>
<td>157 - 165</td>
</tr>
<tr>
<td>6</td>
<td>Comparison Between 0.1% Diclofenac Natrium and 0.1% Dexamethasone Eyedrops in Reducing Cataract Postoperative Inflammation</td>
<td>166 - 171</td>
</tr>
<tr>
<td>7</td>
<td>The Pharmacokinetics of Lamivudine in Healthy Rabbit Treated with Cimetidine</td>
<td>172 - 175</td>
</tr>
<tr>
<td>8</td>
<td>Validity and Reliability of Radar Questionnaire for Patients with Rheumatoid Arthritis</td>
<td>176 - 180</td>
</tr>
<tr>
<td>9</td>
<td>Height Measurement Based on Sternal Bone Length in Adults</td>
<td>181 - 182</td>
</tr>
<tr>
<td>10</td>
<td><strong>Antimicrobial Resistance and Antibiotic Use in Low-Income and Developing Countries</strong></td>
<td>183 - 195</td>
</tr>
<tr>
<td>11</td>
<td>Urethral Stricture in Female</td>
<td>196 - 200</td>
</tr>
<tr>
<td>12</td>
<td>Review Article and Clinical Experience: RECENT ADVANCES IN DIABETES MELLITUS: 2002-2005. Selected Clinical Aspects, Clinical Experiences, and Possible Applications</td>
<td>201 - 204</td>
</tr>
</tbody>
</table>
Antimicrobial Resistance and Antibiotic Use in Low-Income and Developing Countries

Abstract

The threat to human health posed by antimicrobial resistance of bacteria is a worldwide and ever growing problem related to the use of antibiotics as is demonstrated by numerous examples of which some are discussed in this review. Resistant bacteria emerge by the selective pressure of antibiotics. Information about antibiotic use in developing countries is limited. We found quantitative data about 15 low-income and developing countries, and data about the appropriateness of antibiotic use of 3 countries. Important determinants of antibiotic use playing a role in prescribers, dispensers and customers are lack of knowledge of antibiotics, economic incentives, and marketing influences. A prerequisite for an adequate fight against ever increasing rates of resistance is information about the quantity and quality of antibiotic use. Methods to measure quantity and quality are discussed. The prudent use of antibiotics should be promoted. WHO has set a number of targets to improve antibiotic use, among which are changing behaviour of prescribers by introduction of guidelines and education about preferred antimicrobial therapy.

Keyword : Anti-bacterial, agent, hospital, community, developing, country, Indonesia,

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