FOLIA MEDICA INDONESIANA
Vol. 41 No. 2 April - June 2005

Editorial .......................................................................................................................... 83
Opinion :
BIOETHICS. ITS ROLE IN RESEARCH
(M Sajid Darmadipoera) .................................................................................................. 84
GASTROPROTECTIVE EFFECT OF CURCUMINE ON ETHANOL-INDUCED
GASTRIC MUCOSAL LESIONS IN RATS
(Sri Agus Sudjarwo) ..................................................................................................... 85
SPERMATOZOA MOTILITY AND MORPHOLOGICAL RECOVERY PROCESS IN MICE
(Mus musculus) AFTER THE INDUCTION OF 2-METHOXYETHANOL
(Afifah Hayati, Ani Devi Rahmananta, IB Rai Pidada) .................................................. 90
NUTRITIONAL AND IMMUNE EFFECTS OF EARLY ENTERAL FEEDING SUPPLEMENTED BY
ARGININE, GLUTAMINE AND OMEGA 3 FATTY ACID IN CRITICALLY ILL PATIENTS
(Nanci Marganka Reharta) ............................................................................................... 96
THE COMPARISON OF THE EFFECTIVENESS
BETWEEN 2.5% POVIDONE-IODINE EYE DROP AND 3% TETRACYCLINE EYE OINTMENT
ON BACTERIAL OPHTHALMIA NEONATORUM PROPHYLAXIS
(Hamidah Ali and Retno Sularti) .................................................................................... 102
THE EFFECTIVENESS TEST OF EYEDROP LODOXAMIDE TROMETHAMINE 0.1 %
AND SODIUM CROMOGLYCATE 2% IN VERNAL KERATOCONJUNCTIVITY
IN DR. SOETOMO HOSPITAL, SURABAYA
(Sjamsu Budiono) ........................................................................................................... 108
RISK FACTORS OF SYMPTOMATIC AND ASYMPTOMATIC OSTEOARTHRITIS OF THE KNEE
(Joevoro Soeroso, Leonilia F Dans, Maria Louise Amarillo, Gina Santos) ......................... 118
BRAIN Natriuretic Peptide AS AN INDICATOR OF LEFT VENTRICLE DYSFUNCTION
AND A PREDICTOR OF CARDIOVASCULAR EVENTS IN ACUTE CORONARY SYNDROMES
(Nugroho and M. Yogianto) ............................................................................................. 130
MANAGEMENT OF PERIOPERATIVE PULMONARY EDEMA IN PATIENT
WITH PRE-ECLEMPSIA/ECLAMPSIA UNDERGOING C-SECTION
(Sri Wahjoeningsih) ........................................................................................................ 138
WATER SOURCE AS THE RISK FACTOR OF H. pylori INFECTION IN CHILDREN
AGED 0 – 5 YEARS IN SUBURBAN AREA OF SURAKARTA
(B. Subagyyo) .................................................................................................................. 142
CLINICAL-EPIEMIOLOGICAL DATA ON HIV/AIDS PATIENTS ADMITTED
TO A TOP REFERRAL HOSPITAL DURING 1997-2005. A DATABASE FOR ACTION
IN THE FUTURE, REFERRING TO ANOTHER DEVELOPING COUNTRIES
(Suharto) .......................................................................................................................... 149
Review Article and Clinical Experience:
NEW INSIGHTS INTO ORAL AGENTS IN THE TREATMENT OF T2DM
(THE ROLES OF FIXED-DOSE ORAL AGENTS COMBINATION)
(Askandar Tjiptoatmaja) .................................................................................................. 159
Literature Review:
CHOOSING A PROSTHETIC HEART VALVE
(Iwan N Boestan and Dyana Sarvesti) .............................................................................. 169
Abstracts .......................................................................................................................... 182

Published by :
AIRLANGGA UNIVERSITY SCHOOL OF MEDICINE
Accredited no. 39/DIKTI/Kep/2004

Folia Medica
Indonesiana
Vol. 41 No. 2 Page 83-185 Apr – Jun 2005 ISSN 0303-7932
## Table of Contents

<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>EDITORIAL Vol 41 No 2 2005</td>
<td>83 - 83</td>
</tr>
<tr>
<td>2</td>
<td>OPINION: BIOETHICS. ITS ROLE IN RESEARCH</td>
<td>84 - 84</td>
</tr>
<tr>
<td>3</td>
<td>Gastroprotective Effect of Curcumine on Ethanol-Induced Gastric Mucosal Lesions in Rats</td>
<td>85 - 89</td>
</tr>
<tr>
<td>4</td>
<td>Spermatozoa Motility and Morphological Recovery Process in Mice (Mus musculus) after the Induction of 2-Methoxyethanol</td>
<td>90 - 95</td>
</tr>
<tr>
<td>5</td>
<td>Nutritional and Immune Effects of Early Enteral Feeding Supplemented by Arginine, Glutamine and Omega 3 Fatty Acid in Critically Ill Patients</td>
<td>96 - 101</td>
</tr>
<tr>
<td>6</td>
<td>The Comparison of the Effectiveness between 2.5% Povidone-Iodine Eye Drop and 1% Tetracycline Eye Ointment on Bacterial Ophthalmia Neonatorum Prophylaxis</td>
<td>102 - 107</td>
</tr>
<tr>
<td>7</td>
<td>The Effectiveness Test of Eyedrop Lodoxamide Tromethamine 0.1% and Sodium Cromoglycate 2% in Vernal Keratoconjunctivity in Dr. Soetomo Hospital, Surabaya</td>
<td>108 - 117</td>
</tr>
<tr>
<td>8</td>
<td>Risk Factors of Symptomatic and Asymptomatic Osteoarthritis of the Knee</td>
<td>118 - 129</td>
</tr>
<tr>
<td>9</td>
<td>Brain Natriuretic Peptide as an Indicator of Left Ventricle Dysfunction and a Predictor of Cardiovascular Events in Acute Coronary Syndromes</td>
<td>130 - 137</td>
</tr>
<tr>
<td>10</td>
<td>Management of Perioperative Pulmonary Edema in Patient with Pre-Eclampsia/Eclampsia Undergoing C-Section</td>
<td>138 - 141</td>
</tr>
<tr>
<td>11</td>
<td>Water Source as the Risk Factor of H. Pylori Infection in Chidren Aged 0 - 5 Years in Suburban Area of Surakarta</td>
<td>142 - 148</td>
</tr>
<tr>
<td>12</td>
<td>Clinical–Epidemiological Data on HIV/AIDS Patients Admitted to a Top Referral Hospital During 1997-2005. A Database for Action in the Future, Referring to Another Developing Countries</td>
<td>149 - 158</td>
</tr>
<tr>
<td>13</td>
<td>Review Article and Clinical Experience: New Insights Into Oral Agents in the Treatment of T2DM (The Roles of Fixed-Dose Oral Agents Combination)</td>
<td>159 - 168</td>
</tr>
<tr>
<td>14</td>
<td>Literature Review: Choosing a Prosthetic Heart Valve</td>
<td>169 - 181</td>
</tr>
</tbody>
</table>
Abstract

The heart is a vital part of human anatomy because it functions as a pump to circulate blood throughout the body. Heart valves allow the heart to pump blood to specific locations efficiently. These valves are prone to disease and malfunction, and can be replaced by prosthetic heart valves. The two main types of prosthetic heart valves are mechanical and bioprosthetic. The mechanical valves are excellent in terms of durability, but are hindered by their tendency to coagulate the blood. Bioprosthetic valves are less durable and must be replaced periodically. When one of the valves of the heart becomes infected with a disease, it can be replaced with one of several different types of prosthetic valves. No prosthetic valve is ideal. None of the available mechanical or biologic valves has the performance and durability of the native human semilunar and atrioventricular valves. Therefore, the selection of a valve must take into account the relative advantages and disadvantages of a particular prosthesis and how to apply to the patient's risk profile.

Keyword : valve, prosthetic, valve, mechanical, valve, bioprosthetic,