FOLIA MEDICA INDONESIANA

Vol. 44 No. 3 July - September 2008

EFFECT OF Hsp70 EXPRESSION ON T-CD4+ LYMPHOCYTE APOPTOSIS IN HIV/AIDS INFECTION
(Nasronadin)

IFN-γ IN PERIPHERAL BLOOD MONONUCLEAR CELLS AND BRONCHOALVEOLAR LAVAGE PATIENTS
WITH PULMONARY TUBERCULOSIS BEFORE AND AFTER TREATMENT WITH ORAL ANTI-TUBERCULOSIS DRUGS
(JF Pollinger)

EFFECT OF CIGARETTE SMOKE EXPOSURE ON THE EXPRESSION OF MUTANT PS3 IN TRANSITIONAL CELLS
OF THE BLADDER
An Experimental Study on Rattus norvegicus
(Kristanto RDA, Soetjato, Soebadi DM)

EFFECT OF HIGH SALT (SODIUM CHLORIDE) INTAKE ON FRACTURE RISK IN MALE WHITE RATS
(Rattus norvegicus), An Experimental Laboratory Study
(Susarya Kusumo, Djoko Roslihadi, Paulus Eiken)

VIBRIO CHOLERAE AND ITS TypING PROFILE
(Eddy Bagus Wartro)

CHANGE OF IL-1 CONCENTRATION AND INTRACELLULAR CALCIUM (Ca2+) AS AN INDICATOR OF INCREASED BITTER TASTE IN THYPOID FEVER
(Jenny Sunarani, Umar Kesan)

ENRICHING COMMUNICATION BEHAVIOR CHANGE FRAMEWORK WITH RELIGIOUS ELEMENT TO
INCREASE COMPLIANCE IN TAKING ANTI-TUBERCULOUS DRUGS
(Tatian P Hutopo)

COGNITIVE FUNCTION DISORDER AS A REFLECTION OF IMMUNITY STATUS IN PEOPLE LIVING WITH HIV/AIDS
(Margareta M Marfams, T Anamanto Yuwana, Danny Jeffry Rotinsulu)

LACTATE DEHYDROGENASE LEVEL AND THE RESPONSE OF NON HODGKIN LYMPHOMA PATIENTS
TO CHEMOTHERAPY CYCLOPHOSPHAMIDE DOXORUBICIN, VINCRISTINE, PREDNISONE (CHOP)
(Ugroseno, Muhammad Ali, Badekwarsoe)

FIBULAR AUTOSTRUTGRAFT AS THE OPTIONAL TREATMENT OF THE FEMORAL NECK FRACTURES IN SURABAYA
(Achmad Sjarwani)

THE EXISTENCE OF A PEAK IN ADOLESCENT’S HEIGHT INCREMENTS
(MD Artaria, M Henneberg)

Review Article and Clinical Experience:
GRAVES’ DISEASE AND THYROID STORM: CLASSICAL AND NON-CLASSICAL
(From Formula G/O:
P-39.5 120 & BW-Score to Formulas TS-41668 & CS-7.1.5)
(Amskender Ijokoagwiro)

Review Article:
THE EFFECTS OF CHLAMYDIA TRACHOMATIS INFECTION ON WOMEN’S REPRODUCTION SYSTEM
(Riscklen J Setabud)

International Online Distribution by ProQuest™
www.proquest.com

Folia Medica Indonesiana Vol. 44 No. 3 Page 132-215 Surabaya Jul-Sept 2008 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>EFFECT OF Hsp70 EXPRESSION ON T-CD4+ LYMPHOCYTE APOPTOSIS IN HIV/AIDS INFECTION</td>
<td>132 - 137</td>
</tr>
<tr>
<td>2</td>
<td>IFN-γ IN PERIPHERAL BLOOD MONONUCLEAR CELLS AND BRONCHOALVEOLAR LAVAGE PATIENTS WITH PULMONARY TUBERCULOSIS BEFORE AND AFTER TREATMENT WITH ORAL ANTI-TUBERCULOSIS DRUGS</td>
<td>138 - 144</td>
</tr>
<tr>
<td>3</td>
<td>EFFECT OF CIGARETTE SMOKE EXPOSURE ON THE EXPRESSION OF MUTANT P53 IN TRANSITIONAL CELLS OF THE BLADDER An Experimental Study on Rattus norvegicus</td>
<td>145 - 149</td>
</tr>
<tr>
<td>4</td>
<td>EFFECT OF HIGH SALT (SODIUM CHLORIDE) INTAKE ON FRACTURE RISK IN MALE WHITE RATS (Rattus norvegicus) An Experimental Laboratory Study</td>
<td>150 - 156</td>
</tr>
<tr>
<td>5</td>
<td>VIBRIO CHOLERAE AND ITS TYPING PROFILE</td>
<td>157 - 159</td>
</tr>
<tr>
<td>6</td>
<td>CHANGE OF IL-1 CONCENTRATION AND INTRACELLULAR CALCIUM (CA2+ IC) AS AN INDICATOR OF INCREASED BITTER TASTE IN THYPOID FEVER</td>
<td>160 - 165</td>
</tr>
<tr>
<td>7</td>
<td>ENRICHING COMMUNICATION BEHAVIOR CHANGE FRAMEWORK WITH RELIGIOUS ELEMENT TO INCREASE COMPLIANCE IN TAKING ANTI-TUBERCULOUS DRUGS</td>
<td>166 - 176</td>
</tr>
<tr>
<td>8</td>
<td>COGNITIVE FUNCTION DISORDER AS A REFLECTION OF IMMUNITY STATUS IN PEOPLE LIVING WITH HIV/AIDS</td>
<td>177 - 183</td>
</tr>
<tr>
<td>9</td>
<td>LACTATE DEHYDROGENASE LEVEL AND THE RESPONSE OF NON HODGKIN LYMPHOMA PATIENTS TO CHEMOTHERAPY CYCLOPHOSPHAMIDE DOXORUBICIN, VINCristine, PREDnisone (CHOP) An Observational, Prospective, Cross-Sectional Study at the Department of Internal Medicine, Dr Soetomo Hospital, Surabaya</td>
<td>184 - 187</td>
</tr>
<tr>
<td>10</td>
<td>FIBULAR AUTOSTRUTGRAFT AS THE OPTIONAL TREATMENT OF THE FEMORAL NECK FRACTURES IN SURABAYA</td>
<td>188 - 195</td>
</tr>
<tr>
<td>11</td>
<td>The Existence of a Peak in Adolescentâ€™s Height Increments</td>
<td>196 - 202</td>
</tr>
<tr>
<td>12</td>
<td>Review Article and Clinical Experience: GRAVESâ€™ DISEASE AND THYROID STORM: CLASSICAL AND NON-CLASSICAL (From Formula G/O: P-39.5 â€“ 120 &amp; BW-Score to Formulas TS-41668 &amp; CS-7.1.5)</td>
<td>203 - 211</td>
</tr>
<tr>
<td>13</td>
<td>Review Article: THE EFFECTS OF CHLAMYDIA TRACHOMATIS INFECTION ON WOMENâ€™S REPRODUCTION SYSTEM</td>
<td>212 - 215</td>
</tr>
</tbody>
</table>
EFFECT OF CIGARETTE SMOKE EXPOSURE ON THE EXPRESSION OF MUTANT P53 IN TRANSITIONAL CELLS OF THE BLADDER An Experimental Study on Rattus norvegicus

Abstract

We studied the effect of exposure to cigarette smoke on the expression of mutant p53 transitional epithelial cells of the bladder to prove the relation of smoking and bladder cancer. In this experimental study in rat's (Rattus norvegicus) we used post test control group design. Forty-four rats were allocated randomly into 4 groups; the first 2 groups were exposed to cigarette smoke for 30 days and 60 days respectively, while the other 2 were control groups. All animals were euthanatized and cystectomy was done at the end of the experiment. Bladder slices were examined using HE stain to confirm the histopathologic structure of the bladder, then immunohistochemistry (IHC) stain was applied using p53 monoclonal antibody (Pab 1801). A positive result to IHC stain indicates that the expression of mutant p53 supposed to play a role in the pathophysiology of bladder cancer. Normal transitional cells were found in all animals in each with HE stain, while the IHC stain showed negative results in all control groups and in the 30 days group. However, a positive result on mutant p53 was found in the 60 days group. This study shows that 60 days of cigarette smoke exposure can alter p53 expression in transitional epithelial cells of the bladder.

Keyword : mutant, p53, cigarette, smoke, transitional, epithelium, ,

Daftar Pustaka :