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EFFECT OF SODIUM NITRITE (NaNO2) TO ERITROCYTE AND HEMOGLOBIN PROFILE IN WHITE RAT (Rattus norvegicus)
(Rini Ambarwati)

SYNTHESIS OF BETA FERTILIN PROTEIN POLYCLONAL ANTIBODY OF HUMAN SPERM MEMBRANE AS A CANDIDATE FOR IMMUNOCONTRACEPTIVE MATERIAL
(Ninik Darsini, Handani Luniadhi, R. Haryanto Aswin, Reny Itishorn, Aucy Hiting)

LONG-TERM GLUCOCORTICOIDS EFFECTS ON BONE LINING CELLS APOPTOSIS
(Cadis Mainari Sari)

ZINC SULFATE INCREASES LYMPHOCYTE CD4 COUNT IN HIV/AIDS PATIENTS AT IGUH
(Dr. Soetojo Hospital Surabaya)
(Adhiyanti Aslin, Bambang W. Joeowono Sieroso)

SUPPORT GROUP EFFECT ON CD4 LEVELS IN PLWHA WHO RECEIVED ART IN UPRI RSUD Dr. Soetomo Surabaya
(Widya Nurcahyaningtyas, Widodo J Pudijahaja, Purwaningsih, Erwin Astha Triyono)

INTENSITY OF SWIMMING EXERCISE AS CHRONIC STRESS INDUCTION TOWARDS EXPRESSION OF GLUCOSE TRANSPORTER 1 (GLUT1) IN BRAIN CAPILLARY ENDOTHELIAL OF RATS (Rattus norvegicus)
(Hayunis Kinsdita, Lilik Herawati, Harina)

THE TRAINING OF WAGGLER MONITORING OF PRIMARY SCHOOL TEACHERS AND STUDENTS IN SURABAYA TO IMPROVE ERADICATION OF DENGUE HEMORRAGHIC FEVER
(Florencia Sustini, Susilowati Andajani, Atika)

IMPLEMENTATION OF SAFETY WORK FOR NURSE IN HANDLING HIV/AIDS PATIENTS
(Andya Nugrahenti Triq Utami, M. Suaksmone, Erwin Astha Triyono)

Case Report:
POSTERIOR INTEROSSEOUS NERVE COMPRESSION SYNDROME
(Rosi Setiawati)

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Page 1 - 42
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<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>EFFECT OF SODIUM NITRITE (NaNO2) TO ERITHROCYTE AND HEMOGLOBIN PROFILE IN WHITE RAT (Rattus norvegicus)</td>
<td>1 - 5</td>
</tr>
<tr>
<td>2</td>
<td>SYNTHESIS OF BETA FERTILIN PROTEIN POLYCLONAL ANTIBODY OF HUMAN SPERM MEMBRANE AS A CANDIDATE FOR IMMUNOCONTRACEPTIVE MATERIAL</td>
<td>6 - 11</td>
</tr>
<tr>
<td>3</td>
<td>LONG-TERM GLUCOCORTICOIDS EFFECTS OF BONE LINING CELLS APOPTOSIS</td>
<td>12 - 16</td>
</tr>
<tr>
<td>4</td>
<td>ZINC SULFATE INCREASES LYMPHOCYTE CD4 COUNT IN HIV/AIDS PATIENTS AT ICUID DR. SOETOMO HOSPITAL SURABAYA</td>
<td>17 - 19</td>
</tr>
<tr>
<td>5</td>
<td>SUPPORT GROUP EFFECT ON CD4 LEVELS IN PLWHA WHO RECIEVED ART IN UPI! RSUD Dr. SOETOMO SURABAYA</td>
<td>20 - 23</td>
</tr>
<tr>
<td>6</td>
<td>INTENSITY OF SWIMMING EXERCISE AS CHRONIC STRESS INDUCTION TOWARDS EXPRESSION OF GLUCOSE TRANSPORTER 1 (GLUT1) IN BRAIN CAPILLARY ENDOTHELIAL OF RATS (Rattus norvegicus)</td>
<td>24 - 27</td>
</tr>
<tr>
<td>7</td>
<td>THE TRAINING OF WIGGLER MONITORING OF PRIMARY SCHOOL TEACHERS AND STUDENTS IN SURABAYA TO IMPROVE ERADICATION OF DENGUE HEMORRHAGIC FEVER</td>
<td>28 - 31</td>
</tr>
<tr>
<td>8</td>
<td>IMPLEMENTATION OF SAFETY WORK FOR NURSE IN HANDLING HIV/AIDS PATIENTS</td>
<td>32 - 36</td>
</tr>
<tr>
<td>9</td>
<td>Case Report: POSTERIOR INTEROSSEOUS NERVE COMPRESSION SYNDROME</td>
<td>37 - 42</td>
</tr>
</tbody>
</table>
LONG-TERM GLUCOCORTICOID EFFECTS OF BONE LINING CELLS
APOPTOSIS

LONG-TERM GLUCOCORTICOID EFFECTS OF BONE LINING CELLS
APOPTOSIS

1. Gadis Meinar Sari --> Dosen Fakultas Kedokteran

Abstract

The aim of this study was to count the amount of apoptotic bone lining cells after long term glucocorticoid distribution. This study used Rattus Norvegicus females aged 3 months that were divided into 3 groups, each group consisted of 7 rats. The groups are: (1) control group; (2) treatment group 1 were given glucocorticoid 0.01 mg/day; (3) treatment group 2 were given glucocorticoid 0.2 mg/day. The treatment carried out for 4 weeks and at the end of treatment, mice were sacrificed and continued with preparation, and the number of bone lining cells that undergoing apoptosis was calculated through examination of the femur bone tissue metaphysis section using immunohistochemical technique. All data were analyzed with statistical analysis Anova. The result showed that the number of apoptotic bone lining cells is increased in group with glucocorticoid administration 0.01 mg/day and 0.2 mg/day compared to control group with p= 0.000 (p <0.05). The number of apoptotic bone lining cells on the group of glucocorticoid dose 0.2 mg/day higher than the group of glucocorticoid dose 0.01 mg/day with p= 0.000 (p <0.05). In conclusions long term glucocorticoid distribution increase apoptosis of bone lining cells.(FMI 2012;48:12-16)

Keyword : Bone, lining, cells, apoptosis, glucocorticoid,

Daftar Pustaka :