EFFECT OF TRANSVENTRICULAR CEREBROSPINAL FLUID IN PATIENT WITH SEVERE BRAIN DAMAGE WITH THIN ACUTE SUBDURAL BLEEDING. A COMPARATIVE STUDY WITH DECOMPRESSION TREPHANATION ACTION  
(Khaimi Thohari, Muhammad Arifin Paretneng)

UTILIZATION OF EXTRACT PHALERIA (PHALERIA MACROCARPA) AS A PRECAUTION AGAINST CARBON TETRACHLORIDE INDUCED HEPATOTOXICITY IN MICE  
(Reny Ziahoem, Rachmali Karmawati)

COMPARATIVE EFFECTIVENESS CHLORHEXIDINE GLUCONATE 0.2% AND Povidone-Iodine 1% AS AN ANTISEPTIC TO DECREASE DENSITY LEVEL OF INTRAORAL GERMS IN MAXILLOFACIAL FRACTURE SURGERY  
(Hartono Ishardianto)

CYCLIN D1 EXPRESSION RELATIONSHIP WITH CLINICAL STAGE, GRADING GLAND METASTASIS OF TUMOR CELLS AND SQUAMOUS CELL IN CERVICAL CARCINOMA  
(Silvanus Adriani, Suhandi, Endang Yoevarini)

IDENTIFICATION OF FUNCTIONAL CLUSTER OF EXTRACT PARASITE DUKU (LORANTHACEAE DEANDROPHOE SPECIES) WITH FT-IR SPECTROMETER  
(Arifa Mustika, Roostania Indrawati, Rabia Sofaria Munir)

PCR INHIBITOR CONTAMINANT DETECTION FROM EXTRACTION PRODUCTS OF RESIN CHELATING DNA IN FORENSIC DNA IDENTIFICATION  
(Agung Sosawas, Soekry Erfan Kusuma)

EVENTS AND RISK FACTORS OF DEVELOPMENTAL DISORDERS IN LOW BIRTH WEIGHT BABIES  
(Dina Djiohousodo, Soetjiingsih, Winchu Purwono)

CORRELATION OF C-ERBB2 EXPRESSION IN UNDIFFERENTIATED NASOPHRARYNGEAL CARCINOMA AND TUMOR SIZE (T-STAGE), REGIONAL LYMPH NODES STATUS (N-STAGE), AND RADIATION RESPONSE  
(Dyah Fauziah, Willy Sandhika, Farook Hoesni)

MACROPHAGE BETWEEN THE FIRST AND THIRD DAY OF CLOSED FEMORAL FRACTURE  
(Putu Astawa)

PARASITOLOGICAL EXAMINATION OF IMPORTED AND INDIGENOUS MALARIA IN TEGALOMBO COMMUNITY HEALTH CENTER, PACITAN DISTRICT, EAST JAVA PROVINCE  
(Kusmantriawati, SW Sulistyawati, H Arwati)

Review Article:  
HOW TO MANAGE ENDOMETRIOMA BY LAPAROSCOPY? ABLATION OR EXCISION?  
(RY Primariawan)

Review Article:  
ANATOMICAL ASPECT OF SHOULDER JOINT DISLOCATION FOR VOLLEYBALL PLAYERS  
(Yuliana)

Review Article and Clinical Experience:  
THE 22 PLEIOTROPIC PROPERTIES OF STATIN AND CARDIOVASCULAR DISEASES  
The Roles of Atorvastatin with Its PPECCAT-GOMMESAAB Effects  
(Askandar Tjoekproewari)

International Online Distribution by ProQuest™
www.proquest.com
<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Utilization of Extract Phaleria (Phaleria Macrocarpa) as a Precaution against Carbon Tetrachloride Induced Hepatotoxicity in Mice</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>Effect of Transventricular Cerebrospinal Fluid in Patient with Severe Brain Damage with Thin Acute Subdural Bleeding. A Comparative Study with Decompression Trepanation Action</td>
<td>244 - 248</td>
</tr>
<tr>
<td>3</td>
<td>Comparative Effectiveness between Chlorhexidine Gluconate 0.2% and Povidone-Iodine 1% as an Antiseptic to Decrease Density Level of Intraoral Germs in Maxillofacial Fracture Surgery</td>
<td>253 - 268</td>
</tr>
<tr>
<td>4</td>
<td>Cyclin D1 Expression Relationship with Clinical Stage, Grading Gland Metastasis of Tumor Cells and Squamous Cell in Cervical Carcinoma</td>
<td>269 - 274</td>
</tr>
<tr>
<td>5</td>
<td>IDENTIFICATION OF FUNCTIONAL CLUSTER OF EXTRACT PARASITE DUKU (LORANTHACEAE DEANDROPTHOE SPECIES) WITH FT-IR SPECTROMETER</td>
<td>275 - 277</td>
</tr>
<tr>
<td>6</td>
<td>PCR Inhibitor Contaminant Detection from Extraction Products of Resin Chelating DNA in Forensic DNA Identification</td>
<td>278 - 284</td>
</tr>
<tr>
<td>7</td>
<td>Events and Risk Factors of Developmental Disorders in Low Birth Weight Babies</td>
<td>285 - 289</td>
</tr>
<tr>
<td>8</td>
<td>Correlation of c-erbB2 Expression in Undifferentiated Nasopharyngeal Carcinoma and Tumor Size (T-Stage), Regional Lymphnodes Status (N-Stage), and Radiation Response</td>
<td>290 - 293</td>
</tr>
<tr>
<td>9</td>
<td>Macrophage between the First and Third Day of Closed Femoral Fracture</td>
<td>294 - 298</td>
</tr>
<tr>
<td>10</td>
<td>Parasitological Examination of Imported and Indigenous Malaria in Tegalombo Community Health Center, Pacitan District, East Jawa Province</td>
<td>299 - 301</td>
</tr>
<tr>
<td>11</td>
<td>Review Article: How to Manage Endometrioma by Laparoscopy? Ablation or Excision?</td>
<td>302 - 307</td>
</tr>
<tr>
<td>12</td>
<td>Review Article: Anatomical Aspect of Shoulder Joint Dislocation for Volleyball Players</td>
<td>308 - 314</td>
</tr>
<tr>
<td>13</td>
<td>Review Article: The 22 Pleiotropic Properties of Statin and Cardiovascular Diseases the Roles of Atorvastatin with Its PPECCAT-GOMMESAAB Effects</td>
<td>315 - 323</td>
</tr>
</tbody>
</table>
Macrophage between the First and Third Day of Closed Femoral Fracture

Abstract

The pathobiologic changes between first and third day after fracture is not adequately understood. Pathobiology concerns about the changes of balance to imbalance condition before symptoms and signs of disease manifest. The research's aims were to know the difference of IL-1ß and IL-10-expressing macrophage between the first and third day after fracture. This study is a cross sectional study of 40 closed femoral fractures. We examined 20 patients which internal fixation was done on the first day and 20 patients which internal fixation was done on the third day. We examined the soft tissue biopsy (that was taken during internal fixation) for immunohistochemistry staining using IL-1ß and IL-10 monoclonal antibody to see macrophage activity in expressing IL-1ß and IL-10. The result showed that there was a significant lower level of IL-1ß-expressing macrophage at the first day than the third day (2.37±2.98 %, vs 4.99±4.89 %, p<0.05) but no statistically difference on IL-10-expressing macrophage. From this study, can be concluded that there is lower local macrophage inflammatory reaction in the first day compare to the third day after fracture.

Keyword: IL-1ß-expressing, macrophage, IL-10-expressing, macrophage, pathobiology,