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SERUM p53 PROTEIN AND TOTAL LYMPHOCYTE PROFILE IN SEPSIS PATIENTS TREATED WITH CIPROFLOXACIN AND CEFOTAXIME
(Agus Yudho Santosa, Nasronudin, Eddy Soewandojo)

EFFECT OF LORANTHACEAE DAENDROPHOE SPECIES INFUSION ON SERUM TRANSAMINASE LEVEL AND HEPATIC NECROSIS IN RATS
(Arfa Mustika, Roostantia Indrawati, Ratna Sofania Munir)

GLUCOSE 6 PHOSPHATE DEHYDROGENASE (G6PD) DEFICIENCY IN BAD PREGNANCY HISTORY IN ST. VINCENTIUS A PAULO CATHOLIC HOSPITAL, SURABAYA
(Suhartati, Tri Martini Soemarno, Harsono Notopuro, Heru Santoso)

HEPARIN EFFECT ON VEGF AND EGFR AFTER DEEP SECOND AND THIRD DEGREE BURNS IN RATTUS NOVERCICUS STRAIN WISTAR
(Ruby Riana A, David S Perdanakusuma)

EXAMINATION OF OxLDL SERUM LEVEL AS THE PROGNOSIS OF ACUTE THROMBOTIC ISCHEMIC STROKE
(Bertha J Amaheka, Moh. Hasan Machfoed, Suhartono Taat Putra)

MENTAL CHANGES IN PARKINSON'S DISEASE
A Study of Fifty Patients
(Tayseer M Zein, Zein Mirghani)

MICROSCOPIC PICTURE AND WATER CONTENT IN DENTIN ANALYSIS OF BONDING AGENT BOND TO DENTIN SURFACE
An Evaluation of Various Humidity
(Adioro Soetojo)

LOCALIZATION OF PLASMODIUM FALCIPARUM ASEXUAL STAGE ANTIGEN BY MOUSE IMMUNE SERA
(Heny Arwati et al.)

DESCRIPTION OF URINARY RETENTION IN WOMEN
A Retrospective Study in Dr Soetomo Hospital Surabaya
(Soetojo)

Review Article:
THE POTENTIAL INTERVENTION ON APOPTOSIS AND CELL CYCLE ACTIVITY IN RHEUMATOID ARTHRITIS
(Joewono Soerojo)

Review Article:
THE ROLE OF MICROGLIA AS PRIME COMPONENT OF CNS IMMUNE SYSTEM IN ACUTE AND CHRONIC NEUROINFLAMMATION
(Nyoman Golden, Sajid Darmadipura)

Review Article and Clinical Experience:
A NOVEL "TWO-IN-ONE" DRUG FIXED COMBINATION OF ROS AND MET Its Roles on IR, Prediabetes, MetS, T2DM and CVD
(Askandar Tjokroprawiro)
## Table of Contents

<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Serum P53 Protein and Total Lymphocyte Profile in Sepsis Patients Treated with Ciprofloxacin and Cefotaxime</td>
<td>1 - 6</td>
</tr>
<tr>
<td>2</td>
<td>Effect of Loranthaceae Daendropthoe Species Infusion on Serum Transaminase Level and Hepatic Necrosis in Rats</td>
<td>7 - 12</td>
</tr>
<tr>
<td>3</td>
<td>Glucose 6 Phosphate Dehydrogenase (G6PD) Deficiency in Bad Pregnancy History in St. Vincentius A Paulo Catholic Hospital, Surabaya</td>
<td>13 - 18</td>
</tr>
<tr>
<td>4</td>
<td>Heparin Effect on VEGF and EGFR After Deep Second and Third Degree Burns in Rattus Novergicus Strain Wistar</td>
<td>19 - 22</td>
</tr>
<tr>
<td>5</td>
<td>Examination of OXLDL Serum Level as The Prognosis of Acute Thrombotic Ischemic Stroke</td>
<td>23 - 27</td>
</tr>
<tr>
<td>6</td>
<td>Mental Changes in Parkinson's Disease A Study of Fifty Patients</td>
<td>28 - 31</td>
</tr>
<tr>
<td>7</td>
<td>Microscopic Picture and Water Content in Dentin Analysis of Bonding Agent Bond to Dentin Surface an Evaluation of Various Humidity</td>
<td>32 - 38</td>
</tr>
<tr>
<td>8</td>
<td>Localization of Plasmodium Falciparum Asexual Stage Antigen by Mouse Immune Sera</td>
<td>39 - 43</td>
</tr>
<tr>
<td>9</td>
<td>Description of Urinary Retention in Women A Retrospective Study in Dr Soetomo Hospital Surabaya</td>
<td>44 - 48</td>
</tr>
<tr>
<td>10</td>
<td>Review Article: The Potential Intervention on Apoptosis and Cell Cycle Activity in Rheumatoid Arthritis</td>
<td>49 - 53</td>
</tr>
<tr>
<td>11</td>
<td>Review Article: The Role of Microglia as Prime Component of CNS Immune System in Acute and Chronic Neuroinflammation</td>
<td>54 - 58</td>
</tr>
<tr>
<td>12</td>
<td>Review Article and Clinical Experience: A Novel Two-In-One Drug Fixed Combination of Ros and Met Its Roles on Ir, Prediabetes, Mets, T2dm And CVD</td>
<td>59 - 63</td>
</tr>
</tbody>
</table>
Examination of OXLDL Serum Level as The Prognosis of Acute Thrombotic Ischemic Stroke

Abstract

A serum level of Oxidized Low Density Lipoprotein (oxLDL) has recently been proposed as a biochemic marker of cardiovascular disease in association with atherosclerotic process. Study of oxLDL mechanism and its influence in cerebrovascular disease has not been commonly done and needs more identification. The goal of this study was to examine the serum level of oxLDL as acute ischemic thrombotic stroke prognostic. This study was performed as an analytic observational research, using longitudinal observational study design, from September 2005 to February 2006 in Dr. Soetomo Hospital Surabaya. This study found 40 samples who complied with inclusion and exclusion criteria, which consisted of two groups. Twenty-five samples were stroke group, who were taken twice for oxLDL and National Institute of Health Stroke Scale (NIHSS) examination. The first was performed on arrival to the hospital (= 48 hours after onset) and the second on the tenth day of hospitalization. Fifteen samples were non stroke group whose their vein blood was taken for oxLDL level examination once they came to the hospital. There was positive correlation between oxLDL and NIHSS, proven by Spearman statistical analysis, with correlation coefficient of 0.635 and significance of 0.001 (p< 0.05). There was significant different mean between oxLDL stroke group and non-stroke group, as proved with t test (0.00 < 0.05). However, the different mean test between oxLDL1 and oxLDL2 was not significant (0.47 > 0.05).

Keyword: OXLDL, atherosclerosis, stroke, NIHSS,

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