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

EFFECT OF LORANTHACEAE DAENDROPTHOE SPECIES INFUSION ON SERUM TRANSAMINASE LEVEL AND HEPATIC NECROSIS IN RATS
(Arina 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 NOVERGICUS STRAIN WISTAR
(Ruby Riana A, David S Perdanakusuma)

EXAMINATION OF OxLDL SERUM LEVEL AS THE PROGNOSIS OF ACUTE THROMBOTIC ISCHEMIC STROKE
(Bertha J Amaha, 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 Anwati 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 CYCLE ACTIVITY IN RHEUMATOID ARTHRITIS
(Joewono Soeroso)

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>
**Glucose 6 Phosphate Dehydrogenase (G6PD) Deficiency in Bad Pregnancy History in St. Vincentius A Paulo Catholic Hospital, Surabaya**

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**Abstract**

G6PD is an enzyme that has been proved to have cytoprotective effect against oxidative stress. It has been widely known that exposure of oxidants could trigger hemolytic in G6PD deficient patients. Researches have found that there is a correlation between G6PD deficiency and miscarriage or spontaneous abortion in pregnant women. G6PD is very important for normal embryonal development, during this time the G6PD activity is increased because of increasing oxidative stress, especially after the maternal fetal blood circulation begins to function. Researchers have proved the increase of intrauterine fetal death rate, stillbirth and fetal abnormality in G6PD deficient rats. This study analyzed the G6PD enzyme in women who experienced abortion, either once or recurrent. Using descriptive study samples are women, aged 21 years or more who showed no abnormality reproduction organs, no TORCH infection, diabetes mellitus, thyroid abnormalities and heart disease. The results showed that 10 (43.5%) of samples are G6PD deficiency. Hemoglobin levels, erythrocyte and reticulocyte count of the samples that could influence G6PD activity levels were normal.

**Keyword**: abortion, G6PD, deficient, oxidative, stress, ,

**Daftar Pustaka**