FOLIA MEDICA INDONESIANA
Vol. 43 No. 1 January - March 2007

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

EFFECT OF LORANTHACEAE DAENROADPHOE SPECIES INFUSION ON SERUM TRANSAMINASE LEVEL AND HEPATIC NECROSIS IN RATS
(Arifa 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 Amaheka, Moh. Hasam Machfoed, Suhartono Taat Putra)

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

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

International Online Distribution by ProQuest™
www.proquest.com

<p>| Folia Medica Indonesiana | Vol. 43 | No. 1 | Page 1-63 | Surabaya | Jan-Mar 2007 | ISSN 0303-7932 |</p>
<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 Noverticus 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>
**Abstract**

The bond strength of bonding agent (HEMA based) in dentin surface can occur if collagen fibril is in permeable condition. This condition is influenced by the humidity in teeth surface, water content in dentin and the bonding resin insertion to dentin tubule. This research is aimed to identify the microscopic picture of tags resin and hybrid layer thickness and water content in dentin in relation to humidity in dentin surface. Bovine incisor was cut and shaped with diamond disk until reaching dentin area. After cutting was completed, dentin was cleaned and soaked into physiologic salt for 24 hours. Then it was dried with tissue paper for 5 minutes and put into desiccators for 1 hour. Soon after it is completed, it is measured and put into oven in 70°C to reach constant weight. From this process, we could reveal water content in dentin. Sample preparation for SEM: Cavity preparation was made to the tooth in labial area in circle shape with 5 mm diameter, 2 mm depth. Then etching was done with 37% phosphoric acid for 15 seconds and washed with 20 cc distilled water, and dried with cotton pellets. Then, it was put into desiccators for 1 hour. After it was completed, self cured acrylic ingredient was applied. In the middle of cavity, the tooth was cut. The cut tooth is examined for the hybrid layer thickness and tags resin length with scanning electronic microscope. The result data were analyzed with one-way ANOVA test at 95% confidence level and continued with LSD test. This research result showed that in 60% water content humidity of dentin was at the lowest point and 90% was at the highest point. At 60% to 90% humidity, mean score of hybrid layer, tags resin length showed there was no significant difference. In conclusion, the higher the humidity of ground teeth area, the higher the water content in dentin. There was no bonding microscopic picture between bonding dentin (HEMA) and collagen in humidity increasing.

**Keyword**: dentin, bonding, agent, humidity, water, content, tags, resin, hybrid, layer,
19. **TH Ellis, (2002).** A tapping mode AFM study of collapse and denaturation in dentinal collagen. no info : Dent Mat