THE EFFECT OF 3000 mg INTRAVENOUS VITAMIN C ON SERUM NITRIC OXIDE LEVEL OF SEVERE BURNED INJURY PATIENTS
(Bobby Swadharma Putra, Lobredia Zaraade, Iswansno Doso Saputro)

CORRELATION BETWEEN PLASMA LEVELS OF INTERFERON-GAMMA AND VIRAL LOAD IN PATIENTS WITH HIV STAGE 1
(Hermita Indita Malewa, Endang Kuswandati, Erwin Astha Tryono)

CORRELATION BETWEEN SERUM LEVEL OF HEART TYPE FATTY ACID BINDING PROTEIN (H-FABP) AND N-TERMINAL PRO-BRAIN NATRIURETIC PEPTIDE (NT-PROBNP) ON ACUTE CORONARY SYNDROME PATIENT
(Nurwahyu, M. Annubuddin)

PROFILE OF gyrA AND gyrB GENE MUTATION IN CLINICAL ISOLATE OF CIPROFLOXACIN RESISTANT Pseudomonas aeruginosa
(Ewin Firmn, S. Didi Kusniono, Kuntaman)

EFFECT OF CARDIAC REHABILITATION PROGRAMS ON FUNCTIONAL CAPACITY OF POST CORONARY REVASCULARIZATION PATIENT USING SIX MINUTE WALK-TEST
(Primawati Rasa)

CORRELATION BETWEEN TGF-β-1 PLASMA LEVEL AND CD4+ T LYMPHOCYTE COUNT IN STAGE I HIV-INFECTED PATIENTS
(Alberthina Surjiputy et al)

THE EFFECT OF 3000 MG VITAMIN C INFUSION ON HISTAMINE LEVEL OF SEVERELY BURNED PATIENTS
(T Purwana, ID Saputro, AS Budi)

COMPARISON OF FUGL-MEYER SCORE BETWEEN PATIENTS WITH ACUTE THROMBOTIC INFARCT STROKE TREATED WITH STANDARD MEDICATION AND FLUOXETINE
(Wardah Rohmatul Islamiyah, Hendro Susilo)

ANTIBIOTICS QUANTITY-BASED Escherichia coli RESISTANCE PATTERN IN PATIENTS AT SURGICAL AND PSYCHIATRIC WARDS, DR SOETOMO HOSPITAL, SURABAYA
(Rebekka Junaeti Sutarbudi, Kuntaman, Iva Puspitasari)

AGE AND RESTING HEART RATE ARE DISCRIMINATORS TO PREDICT ENDURANCE WITHOUT PHYSICAL TEST
(Bambang Purwanto, Kristiandi Warito Wigati, Ilyana Asmar STP)

Case Report:
TRUNK AND RETICULAR VARICOPE ON A 9-YEAR-OLD CHILD
(Ivan Jouasen, Heroe Soebroto)

COMPARISON OF THE Apgar SCORE OF SPONTANEOUS VAGINAL BIRTH AND ASSISTED BIRTH IN DR. SOETOMO HOSPITAL SURABAYA
(Bayu Priangga, Muhammad Ardian, Budiono)

FIVE YEARS RETROSPECTIVE STUDY OF BURNS IN DR SOETOMO GENERAL HOSPITAL SURABAYA
(TSN Hidayat, MS Noer, ID Saputro)

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<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>THE EFFECT OF 3000 mg INTRAVENOUS VITAMIN C ON SERUM NITRIC OXIDE LEVEL OF SEVERE BURNT INJURY PATIENTS</td>
<td>63 - 66</td>
</tr>
<tr>
<td>2</td>
<td>CORRELATION BETWEEN PLASMA LEVELS OF INTERFERON-Ç½ AND VIRAL LOAD IN PATIENTS WITH HIV STAGE 1</td>
<td>67 - 72</td>
</tr>
<tr>
<td>3</td>
<td>CORRELATION BETWEEN SERUM LEVEL OF HEART TYPE FATTY ACID BINDING PROTEIN (H-FABP) AND N-TERMINAL PRO-BRAIN NATRIURETIC PEPTIDE (NT-PROBNP) ON ACUTE CORONARY SYNDROME PATIENT</td>
<td>73 - 80</td>
</tr>
<tr>
<td>4</td>
<td>PROFILE OF gyrA AND gyrB GENE MUTATION IN CLINICAL ISOLATE OF CIPROFLOXACIN RESISTANT Pseudomonas aeruginosa</td>
<td>81 - 85</td>
</tr>
<tr>
<td>5</td>
<td>EFFECT OF CARDIAC REHABILITATION PROGRAMS ON FUNCTIONAL CAPACITY OF POST CORONARY REVASCULARIZATION PATIENT USING SIX MINUTE WALK-TEST</td>
<td>86 - 91</td>
</tr>
<tr>
<td>6</td>
<td>CORRELATION BETWEEN TGF-Î³1 PLASMA LEVEL AND CD4+ T LYMPHOCYTE COUNT IN STAGE I HIV-INFECTED PATIENTS</td>
<td>92 - 95</td>
</tr>
<tr>
<td>7</td>
<td>THE EFFECT OF 3000 MG VITAMIN C INFUSION ON HISTAMINE LEVEL OF SEVERELY BURNT PATIENTS</td>
<td>96 - 99</td>
</tr>
<tr>
<td>8</td>
<td>COMPARISON OF FUGL-MEYER SCORE BETWEEN PATIENTS WITH ACUTE THROMBOTIC INFARC STROKE TREATED WITH STANDARD MEDICATION AND FLUOXETINE</td>
<td>100 - 103</td>
</tr>
<tr>
<td>9</td>
<td>ANTIBIOTICS QUANTITY-BASED Escherichia coli RESISTANCE PATTERN IN PATIENTS AT SURGICAL AND PSYCHIATRICWARDS, DR SOETOMO HOSPITAL, SURABAYA</td>
<td>104 - 109</td>
</tr>
<tr>
<td>10</td>
<td>AGE AND RESTING HEART RATE ARE DISCRIMINATORS TO PREDICT ENDURANCE WITHOUT PHYSICAL TEST</td>
<td>110 - 113</td>
</tr>
<tr>
<td>11</td>
<td>Case Report: TRUNK AND RETICULAR VARICOSE ON A 9-YEAR-OLD CHILD</td>
<td>114 - 118</td>
</tr>
<tr>
<td>12</td>
<td>COMPARISON OF THE APGAR SCORE OF SPONTANEOUS VAGINAL BIRTH AND ASSISTED BIRTH IN DR. SOETOMO HOSPITAL SURABAYA</td>
<td>119 - 122</td>
</tr>
<tr>
<td>13</td>
<td>FIVE YEARS RETROSPECTIVE STUDY OF BURNS IN DR SOETOMO GENERAL HOSPITAL SURABAYA</td>
<td>123 - 130</td>
</tr>
</tbody>
</table>
THE EFFECT OF 3000 MG VITAMIN C INFUSION ON HISTAMINE LEVEL OF SEVERELY BURNT PATIENTS

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Abstract

The pathology process in burn injury is both a local and systemic inflammatory reaction, the end result of which is an almost immediate shift of intravascular fluid into the surrounding interstitial space. This occurs as a consequence of changes in vascular permeability as the normal capillary barrier is disrupted by a host of mediators, one of them is histamine. Vitamin C functions as an anti-inflammatory on burn by destroying imidazole ring structure of the histamine molecule. The purpose of this research is to determine the effect of 3000 mg vitamin C infusion on histamine level in severely burnt patients. A randomized pre & posttest control group design. Histamine levels were determined in 16 severely burned patients in burn injury unit of Dr. Soetomo Hospital, Surabaya from June-December 2012 (age 16-65 years old, American Burn Association criteria, 2007). 16 patients were divided into 2 groups; G1 (control, given infusion of vitamin C 2x 400 mg per day for 72 hours) and G2 (vitamin C 3000 mg per day for 72 hours). Variable examined were histamine level of leucocyte, renal function, and blood gas analysis (BGA). Data were analyzed with t test and coupled t test (significant at p<0.05). G1 histamine level was higher than G2 (p<0.05). There were no significant results from renal function analysis and BGA between G1 and G2. The amount of G2 leucocyte was lower than G1 (p=0.045). Giving vitamin C infusion with high dose is able to decrease blood histamine level in severely burnt patient. (FMI 2014;50:96-99)

Keyword : vitamin, C, Histamine, severely, burned, patients,

Daftar Pustaka :