THE IMPORTANCE OF PARENTING ON GROWTH AND DEVELOPMENT IN TODDLERS
(Trwanto, Anis Amirand)

COMBINATION OF METFORMIN AND HYPERBARIC OXYGEN THERAPY
INCREASED eNOS CONCENTRATION
(Bernadette Dian Novita Dewi, Endang Isandldri, Guritno)

DESCRIPTION OF BLOOD VISCOSITY FROM DIABETES MELLITUS OUTPATIENTS
IN ENDOCRINE CLINIC, AW Sjahranie Hospital, 2009
(Carpebeoka LC, Kalalo LP)

2-METHOXYETHANOL EXPOSURE AFFECTS PROTEIN PROFILE
OF TESTICULAR SPERM MEMBRANE IN MICE (Mus musculus)
(Alfiah Hayati, Amilla Mahmud, IB Rai Pidada)

EXTRACT OF Psidium guajava LEAVES REDUCES MALONDIALDEHYDE IN SOLEUS MUSCLE
OF WISTAR RATS DIRECTLY AFTER ACUTE PHYSICAL ACTIVITY
(Suhartati, Muhammad Hanafi, Nayuk Susilovati)

CONTRIBUTION OF LIFESTYLE AND OBESITY TO THE INCIDENCE OF PRE-DIABETES
(Kadex Ayu Erika)

K3 (OCCUPATIONAL HEALTH AND SAFETY) BEHAVIOR ANALYSIS AND NOSOCOMIAL
INFECTION RISK IN CLEANING SERVICE WORKERS AT DR. SEOTOMO HOSPITAL SURABAYA
(Noerool Widajati)

GROUNDSTROKE EXERCISE COMBINED WITH JOGGING CAN INCREASE
THE PHYSICAL FITNESS OF TENNIS PLAYERS
(Ahmad Nasrullah, Yudik Prasetya)

HEMATOCRIT AS A SCREENING TEST OF IRON DEFICIENCY OCCURRENCE
IN TETRALOGY OF FALLOT
(Bagus Setiobroto, Umarayasa A, Rahman MA, Ontoseno T)

COMPARISON OF MATERNAL ZINC LEVEL IN TERM PREGNANCY ASSOCIATED
WITH PREMATURITY RUPTURE OF MEMBRANES IN NORMAL PREGNANCY
(Muh. Nadir Abdullah, Moh. Fauro)

PREDOMINANCE OF RIGHT HEMISPHERE IN POST-ISCHEMIC STROKE
IMMUNITY MODULATION
(Noer Rachma)

SCREENING IN PROTEINURIA-HEMATURIA
AMONG 5-26 YEARS OLD STUDENTS IN CLOSED COMMUNITY SCHOOL
IN SURABAYA, INDONESIA
(Djoko Santoso)

NON-SPECIFIC PATTERN OF ULTRASONOGRAM (USG) IN LYMPHOMA OF THE BREAST
(Ani Ashariati, Ari Djarmiko, Wivien Ristanto, Lies Mardiyana, Sindrawati)

HORMONAL STATUS (ESTROGEN RECEPTORS - PROGESTERONE) AND HER-2 Neu
IN VARIOUS CYCLIN D1 EXPRESSIONS IN BREAST CANCER
(Imam Susilo, Imelda Theodore, Nia Kumiasari)

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<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CONTRIBUTION OF LIFESTYLE AND OBESITY TO THE INCIDENCE OF PRE-DIABETES</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>THE IMPORTANCE OF PARENTING ON GROWTH AND DEVELOPMENT IN TODDLERS</td>
<td>237 - 240</td>
</tr>
<tr>
<td>3</td>
<td>COMBINATION OF METFORMIN AND HYPERBARIC OXYGEN THERAPY INCREASED eNOS CONCENTRATION</td>
<td>241 - 246</td>
</tr>
<tr>
<td>4</td>
<td>DESCRIPTION OF BLOOD VISCOSITY FROM DIABETES MELLITUS OUTPATIENTS IN ENDOCRINE CLINIC, AW SJAHRANIE HOSPITAL, 2009</td>
<td>247 - 252</td>
</tr>
<tr>
<td>5</td>
<td>2-METHOXYETHANOL EXPOSURE AFFECTS PROTEIN PROFILE OF TESTICULAR SPERM MEMBRANE IN MICE (Mus musculus)</td>
<td>253 - 256</td>
</tr>
<tr>
<td>6</td>
<td>EXTRACT OF Psidium guajava LEAVES REDUCES MALONDIALDEHYDE IN SOLEUS MUSCLE OF WISTAR RATS DIRECTLY AFTER ACUTE PHYSICAL ACTIVITY</td>
<td>257 - 262</td>
</tr>
<tr>
<td>7</td>
<td>OCCUPATIONAL HEALTH AND SAFETY BEHAVIOR ANALYSIS AND NOSOCOMIAL INFECTION RISK IN CLEANING SERVICE WORKERS AT DR. SEOTOMO HOSPITAL SURABAYA</td>
<td>270 - 274</td>
</tr>
<tr>
<td>8</td>
<td>GROUNDSTROKE EXERCISE COMBINED WITH JOGGING CAN INCREASE THE PHYSICAL FITNESS OF TENNIS PLAYERS</td>
<td>275 - 278</td>
</tr>
<tr>
<td>9</td>
<td>HEMATOCRITE AS A SCREENING TEST OF IRON DEFICIENCY OCCURRENCE IN TETRALOGY OF FALLOT</td>
<td>279 - 281</td>
</tr>
<tr>
<td>10</td>
<td>COMPARISON OF MATERNAL ZINC LEVEL IN TERM PREGNANCY ASSOCIATED WITH PREMATURE RUPTURE OF MEMBRANES IN NORMAL PREGNANCY</td>
<td>282 - 285</td>
</tr>
<tr>
<td>11</td>
<td>PREDOMINANCE OF RIGHT HEMISPHERE IN POST-ISCHEMIC STROKE IMMUNITY MODULATION</td>
<td>286 - 289</td>
</tr>
<tr>
<td>12</td>
<td>SCREENING IN PROTEINURIA-HEMATURIA AMONG 5 - 26 YEARS OLD STUDENTS IN CLOSED COMMUNITY SCHOOL IN SURABAYA, INDONESIA</td>
<td>290 - 295</td>
</tr>
<tr>
<td>13</td>
<td>NON-SPECIFIC PATTERN OF ULTRASONOGRAM (USG) IN LYMPHOMA OF THE BREAST</td>
<td>296 - 302</td>
</tr>
<tr>
<td>14</td>
<td>HORMONAL STATUS (ESTROGEN RECEPTORS - PROGESTERONE) AND HER-2 Neu IN VARIOUS CYCLIN D1 EXPRESSIONS IN BREAST CANCER</td>
<td>303 - 306</td>
</tr>
</tbody>
</table>
HEMATOCRIT AS A SCREENING TEST OF IRON DEFICIENCY OCCURRENCE IN TETRALOGY OF FALLOT

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Abstract

Tetralogy of Fallot (TF) is a cyanotic congenital heart disease, characterized by a shunt from right to left and a decrease in blood flow to the lungs. Erythropoiesis as compensation for chronic hypoxia in TF patients often cannot be balanced with adequate reserves of iron, causing iron deficiency and the “relative anemia”. Parameters for determining iron deficiency in patients with cyanotic congenital heart disease still in debate. The purpose was to study the use of hematocrite as a screening test incidence of iron deficiency in patients with TF. This was a cross sectional study in patients with Tetralogy of Fallot in Children Cardiac Outpatient Clinic Dr. Soetomo hospital Surabaya during July and August 2004. Samples were taken in consecutive. Result was analyzed with McNemar test and cut-off point was determined with receiver operator characteristic (ROC) curve and contingency C test. Of the 33 patients who were found 14 (42.4%) patients with a hematocrite (HCT) less than or equal to 45% and 19 (57.6%) more than 45%. There was significant positive relationship ($r = -0.401$, $p = 0.021$) between the hematocrite with the presence or absence of iron deficiency (transferrine saturation < 11.5%) and MCV < 80 fl). The optimum value of hematocrite in predicting iron deficiency ranged 40% to 45%, with highest sensitivity at 40% hematocrite (94.4%). Conclusion: Hematocrite levels < 40% can be used as screening tests incidence of iron deficiency in patients with TF.

Keyword : hematocrite, iron, deficiency, Tetralogy, of, Fallot, screening, test,