THE IMPORTANCE OF PARENTING ON GROWTH AND DEVELOPMENT IN TODDLERS
(Trivanto, Anis Amiranti)

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

DESCRIPTION OF BLOOD VISCOSITY FROM DIABETES MELLITUS OUTPATIENTS
IN ENDOCRINE CLINIC, AW SJAHRANIE HOSPITAL, 2009
(Carpepeoka LC, Kalalo LP)

2-METHOXYETHANOL EXPOSURE AFFECTS PROTEIN PROFILE
OF TESTICULAR SPERM MEMBRANE IN MICE (Mus musculus)
(Affah Hayati, Amila Mahmududd, IB Rai Pitada)

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

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

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

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

HEMATOCRIT AS A SCREENING TEST OF IRON DEFICIENCY OCCURRENCE
IN TETRALOGY OF FALLOT
(Begus Sotolordi, Utarayasa A, Rahmain MA, Ontoseno TI)

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

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
(Ami Ashariati, Ario Djarmiko, Wiwien Ristanto, Lies Mardiyana, Sindrawati)

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

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# Table of Contents

<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 SJAHRIANIE 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>HEMATOCRIT 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>
COMPARISON OF MATERNAL ZINC LEVEL IN TERM PREGNANCY ASSOCIATED WITH PREMATURE RUPTURE OF MEMBRANES IN NORMAL PREGNANCY

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Abstract

The purpose of this study was to determine maternal zinc levels, whether there is any difference between term pregnancy associated with premature rupture of membranes and normal pregnancy. This was an analytic observational study using comparative, cross sectional design. Sample comprised 40 mothers with term pregnancy and vaginal birth at Dr. Soetomo Hospital, consisting of 20 term pregnancy with premature rupture of membranes (PROM) and 20 term pregnancy without complications. We used venous blood specimens, colostrum and head hair. Specimens were prepared to be homogeneous solution for analysis. Levels of zinc in the specimen were determined using Atomic absorption Spectrophotometry. Blood zinc levels in term pregnancy with PROM (4.33 ± 1.21 ppm) were significantly lower than in term normal pregnancy (5.20 ± 1.33 ppm), with p = 0.036. Zinc content of colostrum (5.86 ± 3.51 ppm vs 6.95 ± 3.77 ppm) and head hair (254.85 ± 167.45 ppm vs. 348.78 ± 228.17 ppm) was not significantly different from the second group (p> 0.05). In conclusion, blood zinc levels in term pregnancy with PROM was lower than that in normal pregnancy. Hair zinc concentration of colostrum and the head did not differ between the two groups.

Keyword : maternal, zinc, status, premature, rupture, of, membranes, (PROM), term, pregnancy,

Daftar Pustaka :