SOCIOECONOMIC AND GENETIC FACTORS INFLUENCING THE STRENGTH, WEIGHT, LENGTH AND WIDTH MEASUREMENTS OF CHILDREN
(Myrtali D Artais)

GLomerular Filtration Rate In Liver Cirrhosis
(Titong Sugihartono et al)

Antimicrobial Activity Of Mahkota Dewa (Phaleria macrocarpa (Schef.). Boerl.)
Leaf Extract Against Pseudomonas aeruginosa By Agar Dilution And Scanning Electron Microscopy
(Muhammad Ali Shodikin)

Mapping Pattern Of Core Dna Loci In Forensic Identification Sample Examination Using Polymerase Chain Reaction (Pcr) In Loci Csfs1po, Th01 And Tpox
(Ahmad Yudianto, Soeky Erfan Kusuma)

Spatial Analysis Of Dengue Fever Regarding Its Determinant Factors In Bandar Lampung
(Dyah Wanli SR Wantan)

Inhibition Of The Mitogen Activated Protein Kinase (mapk) In The Inflammatory Pain Like State Using Sb 203580 And Pd 98059 In Mice
(Bambang Subakti Zulkarnain, Kirwarto, Yulisandi, Junadi Khodir)

Cloning Of Melanoma Antigen-1 (mage-1) Gene From Fine Needle Aspiration Biopsy Of Hepatic Tissue Of Hepatocellular Carcinoma Patients
(Gono Mastutik et al)

Detection Of Urinary Incontinence Affecting Post-Menopausal Age Using Ii Q-7 And Udi-6 Questionnaire At Immanuel Teaching Hospital Bandung
(Ucje S Sastrawinata)

Electron Microscopic Scanning Profile Of Balb/c Mice Intestinal Villi After Per Oral Lps (lipopolysaccharide) During Probiotic Induction
(I Ketut Sudiana)

Extensive Intensity Exercise Most Effectively Increases Anaerobic Threshold
(Muchsin Djoewes)

Pegagan (Centella asiatica) Extract Increases Vaginal Wall Thickness In Menopausal Rats
(Askar Raden)

Review Article:
Interval Exercise With 1:1 Work/Rest Ratio Decreases The Risk Factors Of Type-2 Diabetes Mellitus And Coronary Heart Disease
(Kyatr)

Expression Of Topoisomerase Iiα And Cyclin D1 Proteins In Various Degrees Of Breast Ductal Carcinoma
(Iman Sutilo)
<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Socioeconomic and Genetic Factors Influencing the Strength, Weight, Length and Width Measurements of Children</td>
<td>161 - 166</td>
</tr>
<tr>
<td>2</td>
<td>GLOMERULAR FILTRATION RATE IN LIVER CIRRHOSIS</td>
<td>167 - 171</td>
</tr>
<tr>
<td>3</td>
<td>ANTIMICROBIAL ACTIVITY OF MAHKOTA DEWA [Phaleria macrocarpa (Scheff. Boerl.) LEAF EXTRACT AGAINST Pseudomonas aeruginosa BY AGAR DILUTION AND SCANNING ELECTRON MICROSCOPY</td>
<td>172 - 178</td>
</tr>
<tr>
<td>4</td>
<td>MAPPING PATTERN OF CORE DNA LOCI IN FORENSIC IDENTIFICATION SAMPLE EXAMINATION USING POLYMERASE CHAIN REACTION (PCR) IN LOCI CSF1PO, THO1 AND TPOX</td>
<td>179 - 185</td>
</tr>
<tr>
<td>5</td>
<td>SPATIAL ANALYSIS OF DENGUE FEVER REGARDING ITS DETERMINANT FACTORS IN BANDAR LAMPUNG</td>
<td>186 - 191</td>
</tr>
<tr>
<td>6</td>
<td>INHIBITION OF THE MITOGEN ACTIVATED PROTEIN KINASE (MAPK) IN THE INFLAMMATORY PAIN LIKE STATE USING SB 203580 AND PD 98059 IN MICE</td>
<td>192 - 199</td>
</tr>
<tr>
<td>7</td>
<td>CLONING OF MELANOMA ANTIGEN-1 (MAGE-1) GENE FROM FINE NEEDLE ASPIRATION BIOPSY OF HEPATIC TISSUE OF HEPATOCELLULAR CARCINOMA PATIENTS</td>
<td>200 - 205</td>
</tr>
<tr>
<td>8</td>
<td>DETECTION OF URINARY INCONTINENCE AFFECTING POST-MENOPAUSAL AGE USING II Q-7 AND UDI-6 QUESTIONNAIRE AT IMMANUEL TEACHING HOSPITAL BANDUNG</td>
<td>206 - 210</td>
</tr>
<tr>
<td>9</td>
<td>ELECTRON MICROSCOPIC SCANNING PROFILE OF BALB/c MICE INTESTINAL VILLI AFTER PER ORAL LPS (LIPOPOLYSACCHARIDE) DURING PROBIOTIC INDUCTION</td>
<td>211 - 215</td>
</tr>
<tr>
<td>10</td>
<td>EXTENSIVE INTENSITY EXERCISE MOST EFFECTIVELY INCREASES ANAEROBIC THRESHOLD</td>
<td>216 - 221</td>
</tr>
<tr>
<td>11</td>
<td>PEGAGAN (Centella asiatica) EXTRACT INCREASES VAGINAL WALL THICKNESS IN MENOPAUSAL RATS</td>
<td>222 - 228</td>
</tr>
<tr>
<td>12</td>
<td>Review Article: INTERVAL EXERCISE WITH 1:1 WORK/REST RATIO DECREASES THE RISK FACTORS OF TYPE-2 DIABETES MELLITUS AND CORONARY HEART DISEASE</td>
<td>229 - 232</td>
</tr>
<tr>
<td>13</td>
<td>EXPRESSION OF TOPOISOMERASE IIα AND CYCLIN D1 PROTEINS IN VARIOUS DEGREES OF BREAST DUCTAL CARCINOMA</td>
<td>233 - 236</td>
</tr>
</tbody>
</table>
EXTENSIVE INTENSITY EXERCISE MOST EFFECTIVELY INCREASES ANAEROBIC THRESHOLD

EXTENSIVE INTENSITY EXERCISE MOST EFFECTIVELY INCREASES ANAEROBIC THRESHOLD

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Abstract

One of the factors that determine performance in sports is the physical work capacity. To improve physical work capacity required training programs that meet the aerobic-anaerobic metabolic elements that proportion depends on the metabolic pathways of energy systems. Means to determine the metabolic pathways of energy systems is the intensity of exercise in accordance with the predominant energy system (ATP-PC, ATP-PC-LA, LA-O2). The intensity of exercise that most effectively improves the physical work capacity is still unknown. The purpose of this study was to prove the effects of various kinds of exercise intensity on the anaerobic threshold. This experimental study using the design randomized control group pretest-posttest design on 100 respondent students boarding school Al-Mukmin Ngruki, Solo. It is divided into four groups, namely the intensive intensity group (ATP-PC), extensive intensity group (ATP-PC-LA), moderate-intensity group (LA-O2) and the control group. Paired t-test found that the three types of exercise intensity can increase anaerobic threshold significantly (p<0.01). Increased anaerobic threshold is marked by a shift value of lactate 4mmol/L to a heavier workload, which means an increase in physical work capacity. Anacova test results, showed a highly significant difference between the intensive-intensity group with extensive- intensity group (p< 0.01), there are significant differences between groups of intensive-intensity with moderate-intensity groups (p<0.05), and there is no difference between extensive-intensity group with moderate-intensity group (p>0.05). Exercise load achieved by an extensive group of the most effective intensity increase anaerobic threshold, then follow the moderate intensity exercise group. Intensity exercise group intensive increase anaerobic threshold, but less effective.

Keyword : intensity, exercise, lactate, anaerobic, threshold, ,

Daftar Pustaka :

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