

JOURNAL OF MEDICINE & HEALTH

Volume 1 | Issue 1 | 2014 | Page 1 | ISSN: 2278-2298 | DOI: 10.14419/2278-2298



RESEARCH ARTICLES

Effect of various modes of Exercises, Impact of
Muscle Training, Resistance Training, Cardio

Page 01 - 07

Dr. S. Sampath, MS, AMN, ACSM
Dr. J. Krishna

Effect of 16 weeks duration of 20 and 40% V_O2
of lower limb on cardiorespiratory system and its
relation to muscle strength. A study by Dr. J. Krishna

Page 08 - 13

Dr. J. Krishna, P. N. Prasad, Prasad

Effect of 16 weeks duration of 20 and 40% V_O2
of lower limb on cardiorespiratory system and its
relation to muscle strength. A study by Dr. J. Krishna

Page 14 - 19

Dr. J. Krishna, P. N. Prasad, Prasad

Effect of 16 weeks duration of 20 and 40% V_O2
of lower limb on cardiorespiratory system and its
relation to muscle strength. A study by Dr. J. Krishna

Page 20 - 25

Dr. J. Krishna, P. N. Prasad, Prasad

Effect of 16 weeks duration of 20 and 40% V_O2
of lower limb on cardiorespiratory system and its
relation to muscle strength. A study by Dr. J. Krishna

Page 26 - 31

Dr. J. Krishna, P. N. Prasad, Prasad

Effect of 16 weeks duration of 20 and 40% V_O2
of lower limb on cardiorespiratory system and its
relation to muscle strength. A study by Dr. J. Krishna

Page 32 - 37

Dr. J. Krishna, P. N. Prasad, Prasad

Effect of 16 weeks duration of 20 and 40% V_O2
of lower limb on cardiorespiratory system and its
relation to muscle strength. A study by Dr. J. Krishna

Page 38 - 43

Dr. J. Krishna, P. N. Prasad, Prasad

Effect of 16 weeks duration of 20 and 40% V_O2
of lower limb on cardiorespiratory system and its
relation to muscle strength. A study by Dr. J. Krishna

Page 44 - 49

Dr. J. Krishna, P. N. Prasad, Prasad

Effect of 16 weeks duration of 20 and 40% V_O2
of lower limb on cardiorespiratory system and its
relation to muscle strength. A study by Dr. J. Krishna

Page 50 - 55

Dr. J. Krishna, P. N. Prasad, Prasad

Effect of 16 weeks duration of 20 and 40% V_O2
of lower limb on cardiorespiratory system and its
relation to muscle strength. A study by Dr. J. Krishna

Page 56 - 61

Dr. J. Krishna, P. N. Prasad, Prasad

CASE REPORT:

A Case Report of Diabetes Mellitus, Atrial Fibrillation
and Hypertension

Page 62 - 67

Dr. J. Krishna, P. N. Prasad, Prasad

Dr. J. Krishna, P. N. Prasad, Prasad

Editorial Team

Editor in Chief

1. [Dr. dr. Meilinah Hidayat, M. Kes.](#)

Peer Reviewers

1. [Agussalim Bukhari, MD, Phd](#)
2. [dr. Ahmad Faried, PhD.](#)
3. [Prof. Andreanus A. Soemardji, DEA](#)
4. [Prof. dr. Aris Widodo, MS., SpFK., Ph.D](#)
5. [dr. Djaja Rusmana, M.Si.](#)
6. [Drs. Eko Suhartono, M.Sc.](#)
7. [Dra Endang Evacuasiany, M.S., AFK](#)
8. [Dr. dr. Hana Ratnawati, M.Kes., PA\(K\)](#)
9. [Ingrid S. Surono, PhD.](#)
10. [Prof. dr. Jeanne A. Pawitan, MS, PhD](#)
11. [dr. Lusiana Darsono, M.Kes.](#)
12. [Prof. Dr. dr. M. Nurhalim Shahib](#)
13. [Dr. dr., Oeij Anindita Adhika .MKes.](#)
14. [Susi Endrini, S.Si., M.Sc., PhD.](#)
15. [Prof. Dr. dr. Susy Tjahjani, M.Kes](#)
16. [Prof.Drs. Sutiman B. Sumitro,SU.,D.Sc](#)
17. [dr. Sylvia Soeng, M.Kes., PA\(K\).](#)
18. [Dr. Teresa Liliana Wargasetia, S.Si., M.Kes., PA\(K\)](#)
19. [Prof. Dr. med. dr. Tri Hanggono Achmad](#)
20. [Dr. Wahyu Widowati, M.Si](#)
21. [Prof. dr. Wahyuni Lukita Atmadja, PhD.](#)

Managing Editors

1. [Dr. dr. Diana Krisanti Jasaputra, M.Kes.](#)
2. [dr. Stella Tinia Hasianna, M.Kes.](#)

English Language Editor

1. [Drs Edward Aldrich Lukman](#)

Secretaries

1. [dr. Cherry Azaria, M.Kes](#)
2. [Deni Firmansyah, S.Si](#)

Table of Contents

Articles

<u>Bcl-2 Immunoexpression as Radiotherapy Response Predictor in Undifferentiated Nasopharynx Carcinoma</u>	<u>FULL PAPER</u>
Beby S. Damayanti, . Afiati, Abdul H. Hassan, Bethy S. Hernowo	
<u>Effect of Methanolic Extract in Ointment and Powder of Kalanchoe Pinnata (Lamk) Leaf in Ointment towards Incision Wound Healing in Mice</u>	<u>FULL PAPER</u>
Adi K Suprpto, Fen Tih, Endang Evacuasiyany	
<u>Expression of Ki-67 has Correlation with the Degree and Size of Endometriosis Cysts</u>	<u>FULL PAPER</u>
Ruswana Anwar, Muhammad Alif, Adhi Pribadi	
<u>Efficacy of Profilactic and Therapeutic Antibiotic in Congenital Hydrocephalus Shunt Infection</u>	<u>FULL PAPER</u>
Akhmad Imron, Kahdar Wiriadisastra	
<u>In Vitro Antimicrobial Activity of Javanese Tamarind Leaves Infusion (Tamarindus indica Linn.) in Escherichia coli</u>	<u>FULL PAPER</u>
Caroline Suryadi, Djaja Rusmana, Endang Evacuasiyany	
<u>Analysis of Fibronectin and TGF- 1 Immunoexpression to Determination of Wound Vitality in Wistar Rats (Rattus norvegicus)</u>	<u>FULL PAPER</u>
Nita Novita, Hasrayati Agustina, Bethy S. Hernowo, Abdul H. Hassan	
<u>Correlation of Total Lymphocyte Count with CD4 Count in HIV/AIDS Patients</u>	<u>FULL PAPER</u>
Ardo Sanjaya, Christine Sugiarto, Ronald Jonathan	
<u>Effect of Lycopene on Peritoneal Fluid Malondialdehyde Level in Endometriosis</u>	<u>FULL PAPER</u>
Nanang W. Astarto, Tono Djuwantono, . Yellianty	
<u>Black Chocolate Consumption Reduces Subjective Symptoms in 18-22 Years Old Females with Premenstrual Syndrome</u>	<u>FULL PAPER</u>
Eliza Nurazizah, Fen Tih, Winny Suwindere	
<u>The Effect of Mangosteen Peel Extract on Sperm Motility and Sperm Count of Swiss Webster Mice Induced by Hard Physical Exercise</u>	<u>FULL PAPER</u>
Ardi Prawira, Stella Tinia, Sylvia Soeng	
<u>A Case Report: Clozapine in Diabetic Patient with Bipolar Mood Disorder</u>	<u>FULL PAPER</u>
_ Vera, Christine Sitha	

Research Article

Effect of Lycopene on Peritoneal Fluid Malondialdehyde Level in Endometriosis

Nanang W. Astarto, Tono Djuwantono, Yellianty

*Departement of Obstetrics and Gynecology, Faculty of Medicine
Padjadjaran University, Hasan Sadikin Hospital
Jl. Pasteur No. 38 Bandung 40161 Indonesia
Email: nw_astarto@yahoo.com*

Abstract

Oxidative stress is a factor that contribute in pathogenesis of endometriosis. This condition could also implicated in infertility. Lycopene is a carotenoid that has antioxidant activity. Supplementation of lycopene can reduce oxidative stress in peritoneal fluid of women with endometriosis. This study aims to compare the effect of lycopene on malondialdehyde (MDA) levels in peritoneal fluid of women with endometriosis. It is an experimental study on peritoneal fluid from five women with endometriosis. The result show that lycopene supplementation affecting the MDA levels in peritoneal fluid. MDA levels in peritoneal fluid with lycopene is lower than without lycopene. It conclude that lycopene is proved lowering MDA levels in peritoneal fluid of women with endometriosis.

Keywords: *endometriosis lycopene, malondialdehyde*

Research Article

Pengaruh *Lycopene* terhadap Kadar Malondialdehid dalam Zalir Peritoneum Pasien Endometriosis

Nanang W. Astarto, Tono Djuwantono, Yellianty

Departemen Obstetri Ginekologi, Fakultas Kedokteran
Universitas Padjadjaran, Rumah Sakit Hasan Sadikin
Jl. Pasteur No. 38 Bandung 40161 Indonesia
Email: nw_astarto@yahoo.com

Abstrak

Keberadaan stres oksidatif diduga menjadi salah satu mekanisme yang terlibat di dalam patofisiologi endometriosis. Keadaan ini juga menjadi penyebab kegagalan kehamilan dan infertilitas pada wanita endometriosis. *Lycopene* merupakan suatu karotenoid lipofilik yang bersifat antioksidan dan prooksidan. Penambahan antioksidan tersebut diharapkan dapat mengurangi tingkat stres oksidatif yang tinggi di dalam zalir peritoneum pasien endometriosis, sehingga motilitas, viabilitas dan integritas DNA sperma dapat terjaga baik. Penelitian ini bertujuan untuk menganalisis pengaruh pemberian *lycopene* terhadap kadar malondialdehid (MDA) pada cairan peritoneum pasien endometriosis. Metode penelitian ini adalah penelitian eksperimental dengan membandingkan pengaruh perlakuan *lycopene* terhadap cairan peritoneum dari lima pasien endometriosis. Hasil penelitian menunjukkan adanya pengaruh pemberian *lycopene* terhadap kadar MDA di dalam zalir peritoneum. Kadar MDA dalam zalir peritoneum yang diberi perlakuan *lycopene* lebih rendah dibandingkan zalir peritoneum yang tidak diberi perlakuan *lycopene*. Berdasarkan hal tersebut maka dapat disimpulkan bahwa pemberian *lycopene* terbukti dapat menurunkan kadar MDA di dalam zalir peritoneum pasien endometriosis.

Kata kunci: endometriosis, *lycopene*, malondialdehid