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"Creating A Better Future of Health Care: Partnership in Research, Education and Clinical Care"

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Proceeding of 2nd International Conference of Translational Medicine and Health Sciences in Conjunction with 4th Java International Nursing Conference 2018

"Creating Better Future Health Care: Partnership in Research, Education and Clinical Care"

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Table of Contents

2nd ICTMHS - 4th JINC, 2018

Cover page	
Preface	
Organizing committee	
Welcome message from the Organizing Chairperson	
Welcome message from the Dean, Faculty of Medicine, Diponegoro University	
Welcome message from the Bean, Pacinty of Steutenic, Diponegoro University	
Table of content	
Tark of Concession	
Plenary Session I	
Implementation Inter-professional Education in the Community	1
Prof. Dr. dr. Tri Nur Kristina, DMM., M.Kes	
Plenary Session II	
Nutrition during the first 1000 days of life	
Professor Lybrich Kramer MSc IRCLC	
Fail to thrive and to overcome	3
Dr. dr. Mexitalia Setiawati E. Sn. A(K)	
Interventions to Prevent Stunting in Early Life	4
dr IC Susanto Sp. 4(K)	
Stunted Growth among Children in Cabagan Isabela; a Population- Based Cross-Sectional Study	4
Kjara Bernadette Agatep, PhDNSc	
Plenary Session III	
Dietetics in Maternal Emergency	
Professor Sandra Capra AM BSc (Hons), DipNutr&Diet, MSocSc, PhD, FDAA	
Capacity Building Approaches to Create Effective Teamwork in Obstetrics Emergencies	
dr. Ratnasari Dwi Cahyanti, Sp. OG(K)., M.Si.Med	
Perception, Experience and Expectation of Pregnant Women about Emergency Care during Pregnancy and L.	abor8
Professor, Dra. Setvowati, MApp.Sc. PhD	
The Quality of Health Care Services and Reffering in Maternal Emergency: Based on EMAS	5
Anne Atkinson Hyre CNM, MSN, MPH	
Invited Lectures	
Functional Outcome, Cognitive and Coping in Stroke Ischemic Survivors after Three Months Onset: Compar	ioon.
between Post Stroke Depression and Non-Post Stroke Depression Groups	
Fitria Handayani, Setyowati, Dwi Pudjonarko, Dian Ratna Sawitri	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Neurology Impacts Related on Mercury Intoxication, from In-vivo to Population Studies in Indonesia	11
Mullihatul Muniroh	
Optimizing Intervention for Perinatal Women with Management Cortisol	12
Anggorowati	
Stress Level and Coping Strategies in Elderly in Nursing Homes	13
Gladis Risna Aiyon Nurulha Rachma	
Cognitive Disorder in Epilepsy Patients. Yuriz Bakhtiar, M Thohar Arifin, Zainal Muttaqin, Erie BPS Andar, Aris Catur, Happy Kurnia B, Dody	16
Priambada, Hardian	100
Finding The Link between Hyperuricemia and Atrial fibrillation and Its Potential Therapeutic Strategy	I
Nani Maharani	14
Life Skills as a Behaviour Change Strategy in the Prevention of HIV and AIDS in Central Java School	16
Untung Sujtanto Enzymatically Modified Resistant Starch from Banana	11
Diana Nur Afifah	
Nutriceuticals Encapsulation by Modified Liposome Study in Vitamin D3	15
Consultational	
Assessment of Inter-Professional Education	19
Fatikhu Yatuni Asmara	
Caring in the Health Care Team to Improve Patient Safety Goals	20

Table of Contents

2nd ICTMHS -- 4th JINC, 2018

Chief Nurses' Self-Management during the Application of 'Relactor' Nursing Delegation Model in Roemani Hospital, Semarang	84
Vivi Yosafianti Pohan, Dewi Gayatri, Eni Hidayati	
Factors Analysis towards Behavior of Nosocomial Infection Control on Patient's Family Ratnasari, Anggorowati, Madya Sulisno	85
The Effect of Ten Carative Factors Application on the Improvement of Nurses Caring Skills and Patient Satisfac	ction
in Regional Public Hospital Jombang	86
Amalia Mastuty, Bambang Edi Warsito, Tri Hartiti, Endang Mahati, Luky Dwiantoro	
Activity	
Oxidative Stress after Long-Distance Cycling (Indonesian North Coast & Tour De Borobudur 2017 Study)	
Prevalence and Risk Factors for Low Back Pain in Food Processing Factory Workers in Semarang Indonesia	88
Dea Amarilisa Adespin, Hari Peni Julianti, Ani Margawati, Arwinda Nugraheni, Aras Utami	
Effects of Progressive Muscle Relaxation on Sleep Quality and Fatigue in Cancer Patients undergoing	
Chemotherapy: A Systematic Review	89
Devi Setya Putri Muchlis AU Sofro Nana Rochana	
A Study on Body Temperature Variation on Basic Organ Stretching Posture of Mompyeogi Movement Exercise Swanny T Widyaatmadja, Kim Young Duk	90
Effect of Green Tea (Camellia sinensis) on Erythrocytes Stability in Exercise-Induced Oxidative Stress Condition	on -91
Dwi Ngestiningsih, Iklima Lintang, Faizah Fulyani	
Infection	
Factors that Influence the Length of Hospitalization after Appendectomy in Acute Appendicitis Patients in dr.	
Kariadi Hospital	92
Yogi Ajik Yudoyono, Saekhol Bakri, Eka Yudhanto, Abdul Mughni	
Carbohydrate Restriction Alleviate Inflammatory Responses	93
Nurina Tyagita	
The Effect of Hibiscus rosa-sinensis L. Extract on Improvement of Macrophage Phagocytosis Activity	94
Antari Leniseptaria Arlita, David Pakaya, Indah Saraswati, Eva Annisaa, Astika Widy Utomo	7.172-7
Annona Muricata Increases IL-27, CXCL12 Levels and Spleen-White-Pulp-Diameter in Severe Malaria	
Kis Djamiatun, Sudaryanto, Noor Wijayahadi, Astika Widy Utomo, Qurrata Áyuni Wae, Ika P Miranti, Djoke	9
Nugroho	
Drug discovery	
The Effects of Phaleria Macrocarpa Extract on Mitotic Index and Tumor Mass Progression on Epidermoid Carcinoma of Swiss Mice in vivo: Experimental Study in Swiss Mice Treated with Neoadjuvant Paclitaxel and	
Cysplatin	96
Vito mahendra Ekasaputra, M. Thohar Arifin, Djoko Handojo	
The Use of Dutura Metel's Extract as Medical Balm to Cure Irritant Contact Dermatitis on Fishermen	97
Effectiveness of Eugenol Ointment to Reduce Cutaneous Candidiasis Lesion	98
Vania Avisa Salsabila, Nadila Shafa Firdaus, Raditya Afnadisa Putro, Lusiana Batubara	77260
Comparison of Bee Products and Burn Ointment to Healing Speed of Second Degree Burns	99
Amallia N. Setyawati, Naufal Ihsan	100
The Effect of Green Tea Leaf Extract on Caspase-3 Protein Level in D-Galactose Induced Balb/C Mice	
Activation of IL-6 and MIP-2 by Non-toxic Methylmercury and Its Suppression by N-acetyl-L-cysteine	
Screening of Spongejaspis Sp-Associated Bacteria Producing Protease Inhibitor	103
Dede Mahdiyah, Helmia Farida, Aris Tri Wahyudi, Widanarni Effect of Cinnamon Powder to Oxidative Stress: A Study with Mice Exposed to Reheated Cooking Oil	104
Effect of Cinnamon Powder to Oxidative Siress: A Study with Mice Exposed to Reneated Cooking Oil	104

Oral Presentation Infection

2nd ICTMHS - 4th JINC, 2018

Carbohydrate Restriction Alleviate Inflammatory Responses

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ABSTRACT

Introduction: Diet pattern commonly used comprised of 60-70% carbohydrate/CH: 20% protein/P: 10-20% fat/F. Overconsumption of carbohydrate leads to oxidative stress, inflammation, obesity, and various degenerative diseases. While in some population, adopt moderate calorie restriction, 30% reduction from all components, leads to fragility. Carbohydrate restriction diet, consist of 40%CH: 30%P: 30%F proposed as the best diet against inflammation, a key mechanism in degenerative diseases. This study investigated the superiority of carbohydrate restriction in inflammation markers.

Methods: Post test only control group design was applied to this study. Using 20 Sprague Dawley rats, aged 12 weeks, divided into 4 groups: CH70 (70%C:20%P,10%F), CH60 (60%C:20%P,20%F), CH40 (40%C:30%P,30%F), and CRall (30% reduction from CH70). Diet was given ad libitum for 30 days. Blood serum was tested for IL-6, CRP, and TNF-a. Data were analysed using ANOVA for each variable, with level of significance of p<0.05.

Results: Carbohydrate restriction showed the best level of IL-6, CRP and TNF- α among all groups. The lowest level of CRP found on CH40 (1.038mg/dL), followed by CRall (1.19mg/dL), CH60 (1.482mg/dL), and the highest level on CH70 group (1.74mg/dL). IL-6 level was also found the lowest point at CH40 (378.51 mg/dL), followed by CH70 (391.02 mg/dL), CRall (420.87 mg/dL), the highest point at CH60 (490.95 mg/dL). TNF-α was found the lowest level on CRall (2.522 pg/mL), followed by CH40 (3pg/mL), CH60 (3.498pg/mL), and the highest level on CH70 (4.09 pg/mL).

Conclusion: Carbohydrate restriction, using only 40% carbohydrate alleviated inflammatory process in rats. Further studies in human are required to investigate the adherence to this diet.

Keywords: macronutrients; diet; carbohydrate; inflammation; calorie restriction





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