



PROGRAM BOOK

21-23 SEPTEMBER 2018

LE POLONIA HOTEL & UNIVERSITY OF SUMATERA UTARA HOSPITAL
MEDAN - INDONESIA



THE 1ST INTERNATIONAL CONFERENCE
ON NEUROSCIENCE, NEUROLOGY AND
PSYCHIATRY (ICoNaP) 2018

ESTABLISHING NEUROSCIENCE IN DEVELOPING COUNTRIES

proudly presented by:
Faculty of Medicine Universitas Sumatera Utara in collaboration with
Indonesian Psychiatric Association North Sumatera Branch
Indonesian Neurology Association Medan Branch



Table of Contents

Welcome Note	
Rector of Universitas Sumatera Utara	1
Welcome Note	
Dean, Faculty of Medicine, Universitas Sumatera Utara	2
Welcome Note	
Chairman of the 1st ICONAP 2018	3
Conference Committee	4
Conference Program	5
Invited Speakers Abstracts	9
Free Papers Presentation Schedule	28
Electronic Poster Schedule	34
Abstracts of Oral & Poster Presentation	36
The Relationship between Concordance Behavior with Treatment Compliance and Quality of Life of Patients with Pulmonary Tuberculosis in Medan	
<i>Pandiaman Pandia, Tamsil Syafiuddin, Adang Bachtiar, Kintoko Rochadi.....</i>	37

Risk Factor for Malaria in Hypoendemic Areas <i>Lambok Siahaan</i>	38
Antidepressant for Cycloserine Induced Depression on MDR-TB (A case report) <i>Azimatul Karimah</i>	39
Is There Correlation Between Severity of Melasma and Quality of Life? <i>Imam Budi Putra, Nelva Karmila Jusuf, Mahdalena</i>	40
The Comparison Insulin Receptor and Insulin Resistance between Slow Interval Training and Moderate Continuous <i>Yetty Machrina, Harun Al rasyid Damanik, Ambrosius Purba, Dharma Lindarto</i>	41
Profile of Nicotine and Cotinine in the Urine of Active Smokers <i>Dina Afiani, Noni Novisari Soeroso, Bintang Yinke Sinaga and Erna Mutiara</i>	42
Parasite Density and Hemoglobin of Malaria Patients in Hypoendemic Areas <i>Lambok Siahaan</i>	43
Predictive Factor of Endometriosis Severity <i>Muhammad Rusda</i>	43
The Augmentation Effect of N-Acetyl Cystein Antioxidant on Superoxide Dismutase Levels in Schizophrenic Patients Treated with Risperidone <i>Vita Camellia, Khairunnisa, Muhammad Ichwan, Muhammad Surya Husada, Elmeida Effendy, Rusdiana, Deasy Hendriati</i>	44
Expressive Writing and Its Ability to Facilitate Psychotherapy in JKN Era <i>H Algristian</i>	45
The Association Between History of Emotional Abuse and Senior High School Students Academic Performance in Kecamatan Beji, Depok <i>Annisya M. Safri, Fransiska Kaligis</i>	46
Relationship Between Caregiver Burden and Expressed Emotion in Families of Schizophrenic Patients <i>Nanda Sari Nuralita, Vita Camelia, Bahagia Loebis</i>	47
Relationship between Knowledge Level and Anemia Occurrence in Pregnant Women at Sundari General Hospital in Medan <i>Sarma Lumban Raja, Muhammad Rizki Yazni, Dewi Indah Sari Siregar, Dwi Srigati, Adriani Sakina</i>	48
High Protein, Vitamin D, and Calcium Supplementation Increased 25-(OH)-D Serum Levels but Did Not Showed Faster Sputum Conversion in Tuberculosis Patient with Vitamin D Receptor Gene Polymorphism <i>Dina Keumala Sari, Ridha Dharmajaya, Mutiara Indah Sari, and Dewi Masyithah</i>	49

Cognitive Profile of Patients with Schizophrenia in North Sumatera Indonesia <i>Mustafa M. Amin, Elmeida Effendy, Bahagia Loebis.....</i>	50
Association between working memory impairment and activities of daily living in post-stroke patients <i>Fasihah Irfani Fitri, Aida Fithrie, Aldy S Rambe.....</i>	51
The Dynamics of Phosphorylated Tau and Activated Microglia Following Repetitive Traumatic Brain Injury <i>Andre Marolop Pangihutan Siahaan, Iskandar Japardi, Aldy S Rambe, Aznan Lelo, Suzy Indharty, M. Ichwan.....</i>	52
The Association between Cognitive Impairment and Stratification by age and education level in Elderly with Hypertension and without Diabetic Mellitus <i>Kiking Ritarwan, M. Ichwan, Oke Rina.....</i>	53
The Influence on Bodyweight in Male Mice (<i>Mus musculus</i>) Induced by Monosodium Glutamate (MSG) <i>Yunita Sari Pane, Sufitni, Yetty Machrina, Yuki Yunanda</i>	54
<i>Cryptosporidium sp.</i> Findings and Its Symptomatology among Immunocompromised Patients: A Cross-Sectional Study in One Tertiary Referral Hospital <i>Dewi Masyithah Darlan, Muhammad Fakhur Rozi, Yunilda Andriyani, Hemma Yulfi, Restuti Hidayani Saragih</i>	55
Assessment of The Quality of Life for Gynecologic Cancer Patients's Using Functional Assessment of Cancer Therapy-General (Fact-G) Questionnaire at Haji Adam Malik Hospital <i>Deri Edianto, Muhammad Rizki Yaznil, Ade Ayu Chartyansari, Iman Helmi Effendi</i>	56
The Effects of <i>Phaleria macrocarpa</i> (Scheff.) Boerl Extract on Tumor Necrosis Factor-Alpha (TNF- α) Level in Preeclampsia-Induced Human Umbilical Vein Endothelial Cell (HUVEC) Culture <i>Leo Simanjuntak, M Fidel Ganis Siregar, Johannes C Mose and Sarma N Lumbanraja.....</i>	57
The Role of Lithium As Adjunctive Therapy in Unipolar Depression with Suicide Behavioral (Evidence Based Case Report) <i>Syarifah Husna, Yusvick M. Hadin, Adriesti Herdaetha.....</i>	58

Clinical Profile of Male Patients with Non-Small Cell Lung Cancer in Adam Malik General Hospital Medan, Indonesia <i>Setia Putra Tarigan, Chairul Anwar Kamidasa Tumanggor, Sugiarto Gani, Andika Pradana.....</i>	59
Correlation between Vitamin D and Matrix Metalloproteinase 9 (MMP-9) in Chronic Obstructive Pulmonary Disease (COPD) <i>Sri Rezeki Arbaningsih, Aznan Lelo, Ratna Akbari Ganie, Fajrinur Syarani.....</i>	60
Reduced aquaporin-4 coverage of blood vessels in the medial prefrontal cortex and the hippocampus of the Gunn rat: an animal model of neuropsychiatric disorders <i>I A Azis, S Hashioka, T Miyaoka, R A Abdullah, M A Jaya, E Limoa, R Wake, M Hayashida, A J Tanra and M Inagaki.....</i>	61
Red Dragon Fruit Extract (<i>Hylocereus polyrhizus</i>) Inhibits the Increase of Lactic Acid and Creatine Kinase in Rats (<i>Rattus Norvegicus</i>) Receiving of Heavy Physical Exercise <i>Novita Sari Harahap, Rina Amelia.....</i>	62
Plasma Tau Protein and TDP-43 Level in Repetitive Traumatic Brain Injuries <i>Andre Marolop Pangihutan Siahaan, Iskandar Japardi, Aldy S Rambe, M. Ichwan, Aida Fithrie, Bambang Prayugo.....</i>	63
Six Month of Antiretroviral Therapy and Viral Load Level in Indonesia Reproductive Women <i>Sarma Nursani Lumbanraja, Dewi Indah Sari Siregar.....</i>	64
The Effects of Calcium Supplementation on Blood Lead Levels and Short Term Memory of Chronically Exposed Children <i>Sri Sofyani, Aznan Lelo.....</i>	65
Decrease Anxiety Among Students Who Will Do The Objective Structured Clinical Examination (OSCE) With Deep Breathing Relaxation Technique <i>Reni Asmara Ariga.....</i>	66
Vitamin D Receptor Gene Polymorphism in Tuberculosis Patient <i>Dina Keumala Sari, Ridha Dharmajaya, Mutiara Indah Sari, and Dewi Masyithah</i>	67
Comparison of Analgesic Effect by 10 mg Morfin and 2 mg / KgBW Bupivacaine Infiltration 0.5% on Caesarian Section Surgery Post with Spinal Anesthesia Techniques <i>Wulan Fadinie.....</i>	68

Stroke among Type 2 Diabetes Mellitus Patients at Haji Adam Malik General Hospital Medan <i>Rina Amelia</i>	69
Construct Validity Test on Self Care Behaviour of Type 2 Diabetes Mellitus Patients in Binjai City. Indonesia <i>Rina Amelia, Novitasari Harahap</i>	70
Expressions of CD 56 ⁺ CD 16 ⁺ CD3 ⁺ Peripheral Natural Killer (pNK) Cells in Early Idiopathic Recurrent Miscarriage <i>Letta Sari Lintang</i>	71
The Characteristic of Secondary Lung Tumors in Medan <i>Noni Novisari Soeroso, Dina Afiani, Setia Putra Tarigan, Fidya Qodry</i>	72
The Expression of PGC-1 Alpha Liver Gene in Type-2 Diabetes Mellitus Rat Model : Focus on Exercise <i>Yetty Machrina, Dharma Lindarto, Yunita Sari Pane</i>	73
Difference of Hospital Anxiety and Depression Scale–Anxiety (HADS-A) Score from Batak Male and Female With Schizophrenia : Preliminary Study <i>Anastasia Venny Fransisca Sipayung, Bahagia Loebis, M. Surya Husada, Nazli Mahdinasari Nasution</i>	74
The Relationship between BDNF Serum Level, Hospital Anxiety and Depression Scale (HADS-D) in Patients with Psoriasis Vulgaris <i>Elmeida Effendy, Irma D. Roesyanto, Muhammad Sjahrir, Nurul Utami</i>	75
Histochemical Expression of Argyrophilic Nucleolar Organizer Regions as Early Detection in Diagnosing Benign, Premalignant and Malignant Lesions of the Prostate <i>Lidya Imelda Laksmi, Fauriski Febrian Prapiska, T. Ibnu Alferraly</i>	76
The Effectivity of Giving Folic Acid on Improvement of Depression Symptoms in Epilepsy Patients <i>Andiny Syamsinar, Eryln Limoa</i>	77
Efficacy of Vitamin B12 and Folate Acid as Adjuvant Therapy in Improving Negative Symptoms of Skizofrenia Patients <i>Yuliana Azis, Andi Suheyra Syauki</i>	78
The Relationship between Television Exposure and Indonesian Language Development in Bilingual Children <i>Dwi Herawati Ritonga, Sri Sofyani, Lily Irsa</i>	79

The Relationship between Increasing of Troponin T levels and Incidence of Respiratory Distress Syndrome in Premature Neonates at Neonatology Ward Adam Malik General Hospital <i>Annisa Zuhrah Parinduri</i>	80
Differences of Fasting Blood Glucose Level in People with Skizofrenia Before and After Getting Aripiprazole Treatment <i>Dahlia Rosally Turangan, Bahagia Loebis, M. Surya Husada, Nazli Mahdinasari Nasution</i>	81
Risk Factors of Relaps in Children with Steroid-Sensitive Nefrotic Syndrome: Is It Related to Procalcitonin? <i>Dian Ismawardani, Oke Rina Ramayani, Yazid Dimiyati</i>	82
Impact of Nocturnal Enuresis on Quality of Life Among Adolescents <i>V F Sari, O R Ramayani, E Effendy and M Lubis</i>	83
Probiotics Role in Lowering Bilirubin Level on Hyperbilirubinemia Neonates Performed Phototherapy at Neonatology Ward of Adam Malik General Hospital <i>Adrian Johan Khoman, Supriatmo, Rita Evalina Rusli, Emil Azlin</i>	84
Effect of Mean Platelet Volume (MPV) on Outcome of Stroke Infark in Elderly Patients <i>Anita Rosari Dalimunthe, Probosuseno</i>	85
Social Aspect of People with Metamphetamine Dependence in Social Rehabilitation Programe in North Sumatera Province <i>V. Camellia, Fasihah, D. Aldiansyah, M. Ichwan, Khairunnisa</i>	86

The Effects of Phaleria macrocarpa (Scheff.) Boerl Extract on Tumor Necrosis Factor-Alpha (TNF- α) Level in Preeclampsia-Induced Human Umbilical Vein Endothelial Cell (HUVEC) Culture

Leo Simanjuntak^{1,2*}, M Fidel Ganis Siregar³, Johannes C Mose⁴ and Sarma N Lumbanraja³

¹Doctoral Program, Faculty of Medicine, Universitas Sumatera Utara, Medan, Indonesia

²Department of Obstetrics and Gynecology, Faculty of Medicine, Nommensen HKBP University, Medan, Indonesia

³Department of Obstetrics and Gynecology, Faculty of Medicine, Universitas Sumatera Utara, Medan, Indonesia

⁴Department of Obstetrics and Gynecology, Faculty of Medicine, Universitas Padjadjaran, Bandung, Indonesia

*Corresponding author. Email : leosimanjuntak66@gmail.com

Introduction : Preeclampsia is a major cause in both maternal and perinatal mortality and morbidity. The etiopathogenesis of preeclampsia remains unclear but endothelial dysfunction plays important role. Stress oxidative in placenta produces free radicals such as superoxide anions (O₂⁻) and H₂O₂, trophoblast debris, pro-inflammatory cytokines, and antiangiogenic factors which are thought to cause vascular endothelial dysfunction and causing excessive maternal inflammatory responses. Tumor Necrosis Factor- α (TNF- α) is considered as one of the potentially specific markers for preeclampsia.

Aim : This study aimed to determine the effects of Phaleria macrocarpa (Scheff.) Boerl Extract on inflammation in endothelial cells by measuring the TNF- α level In preeclampsia-induced HUVEC.

Method : HUVEC (Human Umbilical Vein Endothelial Cell) culture is an in vitro model widely used to study the pathogenesis of preeclampsia. Phaleria macrocarpa (Scheff.) Boerl also known as Mahkota Dewa is widely used as an anti-inflammation and antioxidant because of alkaloids, saponins, flavonoids and polyphenols properties.

Result : Phaleria macrocarpa extract reduced TNF- α level significantly at concentration of 3.906 μ g/mL. Phaleria macrocarpa extract at concentration of 62.5 μ g/mL reduced TNF- α level to normal level.

Conclusion : Phaleria macrocarpa extract might be used as agent to overcome endothelial dysfunction in preeclampsia.

Keywords : Phaleria macrocarpa, preeclampsia, HUVEC, TNF- α

NOTES