

22. (Prosiding) Effect of Coal Dust Exposure to Mother's Blood Pressure

by

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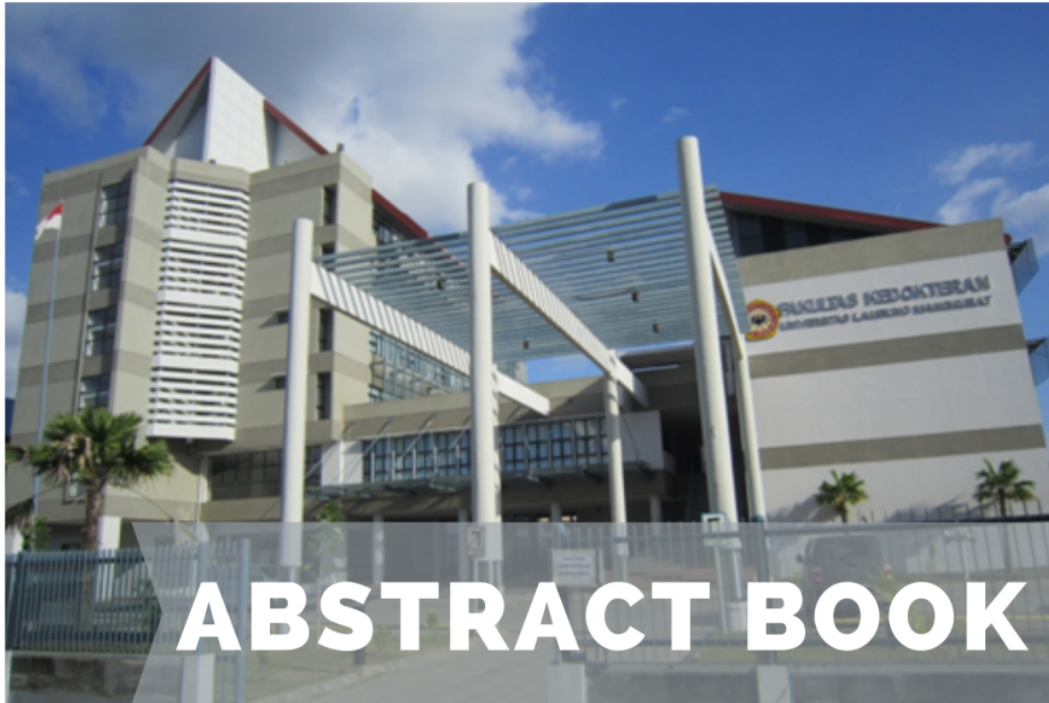
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**Research Center Unit
Faculty of Medicine
Universitas Lambung Mangkurat**



**The 1st Health Science
International Conference**
*"Covid-19: Natural Resource and
Biomolecular Aspect"*

Banjarmasin,
November 10th-11th, 2020

PREFACE

The Hesicon 2020 is an annual scientific meeting organized by Research Centre, Faculty Medicine, Lambung Mangkurat University Indonesia. This meeting aimed to promote mutual exchange between researchers and also experts, to discuss innovative ideas in scientific research. The Hesicon runs for 2 days, 10-11 November 2020, and consists of 4 mini symposia, they are:

- Natural Resource
- Bioinformatic
- Biomolecular
- Biomedicine

The selected papers of the conference will be published in Proceeding and Journal. Around 100 people are attending this conference. They consist of --- presenting participants, --- non-presenting participants, 2 keynote speakers, and 4 invited guests. The theme of the Hesicon 2020 is “**Covid19: Natural Resource and Biomelocular Aspect**” which covers broad range of research in the topics of natural resources and biomedicine. This particular theme is intended to promote recent advances in the field of natural genetic resources and biotechnology as a transformative trend to address the revolution industry 4.0. This international forum also provides a platform where national and international academia or researchers, policy makers, and other stakeholders to translate technology, exchange ideas, and help stimulate multidisciplinary international collaborations in a convergent-manner for shaping a worldwide sustainable development. The Hesicon 2020 could not become a reality without the help and assistance of many parties. Thus, in this occasion I would like to sincerely thank the Rector of Lambung Mangkurat University, Research Centre of Medical Faculty, all members of the Organizing Committee, and all sponsors, who have provided meaningful help and assistance for the implementation of this conference. And last but not least, I would like to thank all of the conference participants who will contribute to making this the most memorable event of Hesicon 2020. Last but not least, we have tried to do our best to prepare Hesicon 2020. Nevertheless, there is nothing completely perfect in the world, including this conference. Therefore, please accept our deep apologizes for any inconveniences found in this conference.



Dr. Eko Suhartono
Chairman of Conference

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- dr. Widya Nursantari

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TIME SCHEDULE OF HESICON

Day 1 10th November 2020 (GMT +8/Waktu Indonesia Tengah)		
07.30-08.30	Registration	
08.30-09.35	Opening ceremony	
08.30-08.35	Welcome remark by MC	
08.35-08.45	Sing the National Anthem of Indonesia Raya	
08.45-08.55	Opening remark by the Riset Center	
08.55-09.05	Opening remark by the Dean of Faculty of Medicine, Lambung Mangkurat University	
09.05-09.15	Opening remark by the Rector of Lambung Mangkurat University	
09.15-09.25	South Kalimantan Traditional Dance Performance	
09.25-09.30	Group picture (MC)	
09.30-09.35	Closing remark by MC	
09.35-09.55	Keynote Speaker 1 Prof. Irawan Satriotomo, MD., Ph.D. Neuroscience Insights of COVID-19	
09.55-10.15	Keynote Speaker 2 Prof. Chissy Rachiana Sudjana Prawira, dr., Sp. A (K). Vaccine Development In the COVID-19 Era	
10.15-11.15	Break Out Room	
10.15-10.35	Invited Speaker 1 Prof. Dr. Zairin Noor, dr., Sp. OT (K), MM. Pengaruh Logam Pada Osteoporosis Moderator: dr. Rahmiati, M. Kes., Sp. MK.	3 Invited Speaker 3 Prof. Dr. Ari Yunanto, dr., Sp. A (K). Patomekanisme Covid 19 Pada Bayi Moderator: Adi Nugroho, SKM., M. Sc., Ph. D
	Discussion of Invited Speaker 1 Moderator: dr. Rahmiati, M. Kes., Sp. MK.	Discussion of Invited Speaker 3 Moderator: Adi Nugroho, SKM., M. Sc., Ph. D
10.35-10.45	3 Invited Speaker 2 Prof. Dr. Ir. H. Yudi Firmanul Arifin, M. Sc. Potensi Tumbuhan Lahan Basah Untuk Obat Moderator: dr. Rahmiati, M. Kes., Sp. MK.	3 Invited Speaker 4 Agianto, S. Kep., Ns., M.N.S., Ph. D. Covid 19 Dalam Keperawatan Moderator: Adi Nugroho, SKM., M. Sc., Ph. D
	Discussion of Invited Speaker 2 Moderator: A dr. Rahmiati, M. Kes., Sp. MK.	Discussion of Invited Speaker 4 Moderator: Adi Nugroho, SKM., M. Sc., Ph. D
11.05-11.15	Discussion of Invited Speaker 2 Moderator: A dr. Rahmiati, M. Kes., Sp. MK.	Discussion of Invited Speaker 4 Moderator: Adi Nugroho, SKM., M. Sc., Ph. D
11.15-12.00	Closing Remark by MC	

Effect of Coal Dust Exposure to Mother's Blood Pressure, Haemoglobin (Hb) Level, and Foetus Heart Beat in Tanah Laut Regency

Meitria Syahadatina Noor, Siti Wasilah, Dian Rosadi, Fauzie Rahman, Fahrini Yulidasari, Andini O. Putri, Atikah Rahayu, Nur Laily, Vina Yulia Anhar, Ayu Riana Sari

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Tanah Laut Regency is one of regencies in South Kalimantan that has coal mine companies. Effects of coaldust exposure can cause oxidative stress and inflammation process that influence endothelial function. Endothelial function is important to mother-foetus circulation. This research's goal was to analyze the effect of coaldust exposure to mother's blood pressure, haemoglobine level, and foetus' heartbeat. The method used observational analyzes with crossectional design. Respondents were at least 30 pregnant women from area with coaldust exposure and without coaldust exposure. Respondents were examined by doctor and midwife to check their bloodpressure, Hb level and foetus heartbeat. Data were analyzed by comparative test. The results were 118.85 mmHg for sistolic bloodpressure from coaldust exposure area and 120.93 mmHg for not-coaldust exposure area ($p=0.522$); 73.67 mmHg for diastolic bloodpressure from coaldust exposure area and 76.43 mmHg from not-coaldust exposure area ($p=0.823$); 11.533 gr/dL for Hb level from coaldust exposure area and 11.89 gr/dL from not-coaldust exposure area ($p=0.028$); 143.21 x/minute for foetus heartbeat from coaldust exposure area and 139.53 x/minute from not-coaldust exposure area ($p=0.013$). the conclusion was coaldust exposure could effect mother's Hb level dan foetus' heartbeat, but could not effect mother's bloodpressure yet in Tanah Laut Regecy.

Keywords: Coaldust exposure, Blood pressure, Haemoglobin level, Foetus heart beat

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