LEMBAR HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW KARYA ILMIAH : JURNAL ILMIAH

Judul Karya Ilmiah (Artikel)	:	Correlation Between Iron Status And Blood Pressure With Nitric Oxide (NO) Levels Of Pregnant Women In Semarang City, Indonesia				
Jumlah Penulis	:	3 Orang (Mohammad Zen Rahfiludin, Dina Rahayuning Pangestuti, Suyatno, Suroto)				
Status Pengusul Identitas Jurnal Ilmiah	:	Penulis pertama dan korespondensi				
		a.	Nama Jurnal		International Journal of Psychosocial Rehabilitation	
		b.	b. Nomor ISSNc. Vol, No. Bln, Thn	:	1475-7192	
		C.			Vol. 24 Issue 9, p-221-227 Mei 2020	
		d. e. f.	Penerbit DOI artikel (jika ada) Alamat Web Jurnal		Hampstead Psychological Associates 10.37200/IJPR/V24I9/PR290024 https://www.psychosocial.com/article/PR290024/22630/	
		g.	Terindeks di	:	Scopus	
Kategori Publikasi Jurnal Ilmiah (beri ✓pada kategori yang tepat)		Jurnal Ilmiah Internasional / Internasional Bereputasi Jurnal Ilmiah Nasional Terakreditasi Jurnal Ilmiah Nasional/ Nasional Terindeks di DOAJ, CABI, COPERNICUS** Jurnal Ilmiah Nasional Tidak Terakreditasi				

Hasil	Peni	laian	Peer	Review	:

		Nilai I			
Komponen Yang Dinilai		Internasional 40	Nasional Terakreditasi 25	Nasional Tidak Terakreditasi	Nilai Yang Diperoleh
a.	Kelengkapan unsur isi jurnal (10%)			1	1
b.	Ruang lingkup dan kedalaman pembahasan (30%)			3	2
C.	Kecukupan dan kemutahiran data/informasi dan metodologi (30%)			3	2
d.	Kelengkapan unsur dan kualitas terbitan jurnal (30%)			3	2.
	Total = (100%)			10	7
	Nilai Pengusul = $60\%x$ 7 = 4,2				

Ci 1.	atatan Penilaian Reviewer: Kesesuaian dan kelengkapan unsur isi jurnal: Uhsur grtikel lengkap dan memenuhi kaidah benulisan artikel ilmiah pada Jurnal Uhsur grtikel lengkap dan memenuhi kaidah benulisan artikel ilmiah pada Jurnal
2.	Ruang lingkup dan kedalaman pembahasan: Ruang lingkup pembahasan tentang status zat begi tikaitkan dengan kabar NO pada ibu liamil, dihahas dengan balk, hamun kesimpulan beluin mencermikan masalah yang akan hijawah dengan penelehan ini
3.	Kecukupan dan kemutahiran data/informasi dan metodologi: Desain Choss cechana nampul kurung Jelus perhitungan besar sampel.
4.	Kelengkapan unsur dan kualitan terbitan: Piterbitkan pada jurnal terinder, - 94. denga. SIR = 0,11 (25 Juni 2020). Index Similaritis: 11/4

Sumbuy 25 Juni 2020 Reviewer 1

Prof. Dr.Sri Sumarmi, S.KM.,M.Si NIP 196806251992932002

Unit kerja: FKM Universitas Airlangga

LEMBAR HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW KARYA ILMIAH: JURNAL ILMIAH

	Pregnant Women In S		ood Pressure With	Nitric Oxide (N	NO) Levels C		
Jumlah Penulis	: 3 Orang (Mohammad	Zen Rahfiludin, Dir	na Rahayuning Pan	gestuti, Suyatno, S	Suroto)		
Status Pengusul Identitas Jurnal Ilmiah	: Penulis pertama dan ko	Penulis pertama dan korespondensi					
	a. Nama Jurnal	: Internation	onal Journal of Psyc	chosocial Rehabilit	tation		
	b. Nomor ISSN	: 1475-7192					
	c. Vol, No. Bln, T	hn : Vol. 24 Is	ssue 9, p-221-227 M	Mei 2020			
	d. Penerbite. DOI artikel (jikef. Alamat Web Jung.g. Terindeks di	a ada) : 10.37200	ad Psychological A /IJPR/V24I9/PR29 ww.psychosocial.co	0024	24/22630/		
Kategori Publikasi Jurnal Ilmiah (beri ✓pada kategori yang tepat)	Jurnal Ilmiah Jurnal Ilmiah	Internasional / Interna Nasional Terakredita: Nasional/ Nasional T h Nasional Tidak Te	si erindeks di DOAJ,	CABI, COPERNI	CUS**		
Hasil Penilaian Peer Review:					T		
Komponen		Nilai	Nilai Maksimal Jurnal Ilmiah				
		Tutomostonol	Nasional Terakreditasi	Nasional Tidak	Nilai Yang		
Trom;	Olicia	Internasional					
Yang l		Internasional	25	Terakreditasi	Diperoleh		
		40	25		Diperoleh		
Yang l	Dinilai		25	10	•		
Yang l a. Kelengkapan unsur isi jurna b. Ruang lingkup dan kedalam	Dinilai ul (10%) uan pembahasan (30%)		25		Diperoleh		
Yang l a. Kelengkapan unsur isi jurna b. Ruang lingkup dan kedalam	Dinilai ul (10%) uan pembahasan (30%)		25	10	1		
a. Kelengkapan unsur isi jurna b. Ruang lingkup dan kedalam c. Kecukupan dan kemutahira metodologi (30%)	Dinilai al (10%) an pembahasan (30%) n data/informasi dan		25	10	1 2		
a. Kelengkapan unsur isi jurna b. Ruang lingkup dan kedalam c. Kecukupan dan kemutahirat metodologi (30%) d. Kelengkapan unsur dan kua Total = (100%)	Dinilai Il (10%) Il (10%) Il (10%) In data/informasi dan Ilitas terbitan jurnal (30%)		25	10 1 3 3	1 2 2,5		
a. Kelengkapan unsur isi jurna b. Ruang lingkup dan kedalam c. Kecukupan dan kemutahira metodologi (30%) d. Kelengkapan unsur dan kua	Dinilai Il (10%) Il (10%) Il (10%) In data/informasi dan Ilitas terbitan jurnal (30%)		25	10 1 3 3 3	1 2 2,5		

Shudi terkait da kadar Fe, tekanan darah dan kadar NO ped wanita hamil masihblm -banyak ya meneliti. Analis analisis ya digunakan merupakan momarker ya saat ini se byk diamah. Hal tsh menunju khan artikulini telah memenuhi keculupan dan Kemutakhiran din ba

4. Kelengkapan unsur dan kualitas terbitan:
Jurnal ini memiliki ISSN: K175 - 7192 termasuk Jurnal Ilmiah InternasionalBereputasi SJR = 0.13 dg penerbit tlampstead Phychological Assciates, tligh Index = 7
Impact Factor: 1 cv 2018: 79.77 SJIF 2018: 3.993. Total Citis 2019: 100

Kecukupan dan kemutahiran data/informasi dan metodologi :

Surabaya, 25 Juni 2020

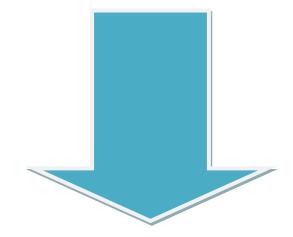
gung jawas han

Prof. Dr. Merryting Adriani, S.K.M., M.Kes NIP 195905171994032001 Unit kerja: FKM Universitas Airlangga

*Catatan PAK Universitas:

Volume 24 Issue 4 merupakan terbitan terakhir jurnal yang tercoverage oleh scopus, setelahnya jurnal telah discontinued scopus sehingga karir ini tidak dapat dinilai sebagai jurnal internasional bereputasi. Jurnal juga tidak ditemukan terindeks pada database manapun sehingga karir ini hanya dapat dinilai sebagai jurnal nasional.

Bukti Indexing





Search Sources Lists SciVal 7

? <u>J</u>

Create account

Sign in

Source details

International Journal of Psychosocial Rehabilitation

Open Access (i)

Scopus coverage years: from 2009 to 2011, from 2013 to 2014, from 2019 to 2020

(coverage discontinued in Scopus)

Publisher: Hampstead Psychological Associates

ISSN: 1475-7192

Subject area: (Psychology: Clinical Psychology)

Medicine: Psychiatry and Mental Health Nursing: Psychiatric Mental Health

SNIP 2019

SJR 2019

0.111

CiteScore 2019

0.2

0.155

(i)

X

①

①

View all documents >

Set document alert

Save to source list Journal Homepage

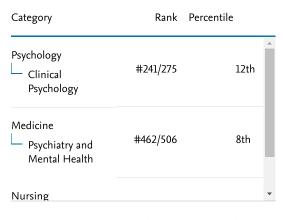
CiteScore CiteScore rank & trend Scopus content coverage

Improved CiteScore methodology

CiteScore 2019 counts the citations received in 2016-2019 to articles, reviews, conference papers, book chapters and data papers published in 2016-2019, and divides this by the number of publications published in 2016-2019. Learn more >



CiteScore rank 2019 ①



View CiteScore methodology > CiteScore FAQ > Add CiteScore to your site &



International Journal of Psychosocial Rehabilitation ISSN:1475-7192

Login/Register (/register-login)



International Journal of Psychosocial Rehabilitation

ISSN: 1475-7192

<

Chief Editor Name: Dr. A.J. Anderson

Publisher Name: Hampstead Psychological Associates

Descriptions:

A WEB BASED PEER REVIEWED PUBLICATION FOR MENTAL HEALTH PRACTITIONERS, CONSUMERS & APPLIED RESEARCHERS

This private NON-PROFIT professional publication and associated web-based, information archive service is dedicated to the enhancement of practice, program development, program evaluation and innovations in mental health and substance abuse treatment programs worldwide. Its goal is to provide a public forum for practitioners, consumers and researchers to address the multiple service needs of patients and families and help determine what works, for whom under a variety of circumstances.

Submit Online (/submit-online)

https://www.psychosocial.com

For authors

Scope (https://www.psychosocial.com/scope/)

Track Your Paper (https://www.psychosocial.com/track-your-paper/)

Submit Online (https://www.psychosocial.com/submit-online/)

Editorial Overview (https://www.psychosocial.com/editorial-overview/)

Instructions for Authors (https://www.psychosocial.com/instructions-for-authors/)

Privacy & Cookie Policy (https://www.psychosocial.com/privacy-cookie-policy/)

Terms & Conditions (https://www.psychosocial.com/terms-conditions-of-use/)



Quick Links

About Publisher (https://www.psychosocial.com/about-publisher/)

Copy Rights (https://www.psychosocial.com/text-book/)

Contact Us

editor@psychosocial.com (mailto:editor@psychosocial.com)

Hampstead Psychological Associates,

Suite B19, 110 Gloucester Road,

London, NW1 8JA.

United Kingdom

Copyrights © 2021 SDA, LTD. All Rights Reserved.

https://www.psychosocial.com 2/2

Editorial Board 4 Negara





International Journal of Psychosocial Rehabilitation ISSN:1475-7192

Login/Register (/register-login)

Journal Information

This peer reviewed Journal was created in 1996 by practitioners, mental health program managers and mental health consumers to provide international practitioners, scholars and consumers with a forum to publish and discuss their work in program development, evaluation research, policy innovations, and therapeutic practices that have been successful in their particular region and cultures. IJPR is not associated with any university or governmental institution, nor is it part of any 'old boy' or other professional network. It was created to provide information to an international readership about issues related to psychosocial rehabilitation and associated topics.

Articles on psychosocial interventions, psychopharmacotherapy, mental health primary care, institutional and community care innovations, decentralization, policy changes, community & regionally based systems, and program evaluation are given particular attention. However, all articles that relate to psychosocial rehabilitation will be considered.

We invite comment from all readers on any and all subjects published in this journal, including the journal format itself. Feel free to comment on the Bulletin Board as well.

Current Editorial Board

A. Anderson, Ph.D. – United Kingdom

R. Eisenma, Ph.D. – United States

M. Melnichuk, Ph.D. – Ukraine

D Young, Ph.D. – Hong Kong

K. Yip, Ph.D. – Hong Kong

A. Johnston, R.N. – United Kingdom

J. Shankaar, Ph.D., RSW - Canada

B. Taylor – Australia

M. Hajri, MD – Tunesia

Dr. Nira Hariyatie Hartani – Malaysia

Asst. Prof. Dr. Mohd Armi Abu Samah – Malaysia

editor@psychosocial.com

Associate Editors

Dr. Haseeb Muhammad, Malaysia Ass. Prof. Dr. I Wayan Suryasa, Indonesia

Publishing Information

The International Journal of Psychosocial Rehabilitation is published by ADG, S..A. (ADG) ADG is a private non-profit, limited corporation in Honduras and operating in a limited capacity in the United Kingdom. All information in IJPR is provided for personal use. Reproduction for publication or other use is strictly prohibited. Written permission must be obtained ADG, S.A., to reprint any information contained within the Journal, either in part or its entirety. Such permission may be requested in writing at the address listed below:

Dr. A.J. Anderson

Managing Editor – IJPR

Suite B19, 110 Gloucester Road,

London, NW1 8JA.

United Kingdom

submission@psychosocial.com

For authors

Scope (https://www.psychosocial.com/scope/)
Track Your Paper (https://www.psychosocial.com/track-your-paper/)
Submit Online (https://www.psychosocial.com/submit-online/)
Editorial Overview (https://www.psychosocial.com/editorial-overview/)
Instructions for Authors (https://www.psychosocial.com/instructions-for-authors/
Privacy & Cookie Policy (https://www.psychosocial.com/privacy-cookie-policy/
Terms & Conditions (https://www.psychosocial.com/terms-conditions-of-use/)



Quick Links

About Publisher (https://www.psychosocial.com/about-publisher/)

Copy Rights (https://www.psychosocial.com/text-book/)

Contact Us

editor@psychosocial.com (mailto:editor@psychosocial.com)

Hampstead Psychological Associates,

Suite B19, 110 Gloucester Road, London, NW1 8JA. United Kingdom

Copyrights © 2021 SDA, LTD. All Rights Reserved.



International Journal of Psychosocial Rehabilitation ISSN:1475-7192

Login/Register (/register-login)

Issue 9

Big Data in Accounting Informaton Systems

(https://www.psychosocial.com/article/PR290001/22581/)

Authors: Meiryani, Jajat Sudrajat, Zaidi Mat Daud, Banon Amelda

DOI: 10.37200/IJPR/V24I9/PR290001 (https://doi.org/10.37200/IJPR/V24I9/PR290001)

Pages: 1-6

Keywords: Big Data, Accounting, Accounting Information Systems, Information Technology

Abstract (https://www.psychosocial.com/article/PR290001/22581/) Download (/register-login)

The Utilization of Games in Learning Calculation Ability (Accounting) Based on Android (https://www.psychosocial.com/article/PR290002/22586/)

Authors: Meiryani, Yogi Udjaja, Jevon Jeviro, Sasya Sabrina

DOI: 10.37200/IJPR/V24I/PR290002 (https://doi.org/10.37200/IJPR/V24I/PR290002)

Pages: 7-11

Keywords: Mathematics, Game, Endless Running, Asyiknya Berhitung Sambil Bermain

Abstract (https://www.psychosocial.com/article/PR290002/22586/) Download (/register-login)

Information Systems Applications on The Organizational Level (https://www.psychosocial.com/article/PR290003/22588/)

Authors: Meiryani, Jajat Sudrajat, Zaidi Mat Daud, Yanti

DOI: 10.37200/IJPR/V24I9/PR290003 (https://doi.org/10.37200/IJPR/V24I9/PR290003)

Pages: 12-21

Keywords: Information Systems, Application, Organizational Level, Expert System, Decision Support Systems,

Executive Information Systems

Abstract (https://www.psychosocial.com/article/PR290003/22588/) Download (/register-login)

Management Information Systems in Organizational Functions (https://www.psychosocial.com/article/PR290004/22590/)

Authors: Meiryani, Kevin Deniswara, Giri Darijanto Sugiono, Fransisca Hanita Rusgowanto

DOI: 10.37200/IJPR/V24I9/PR290004 (https://doi.org/10.37200/IJPR/V24I9/PR290004)

Pages: 22-30

Keywords: Information Systems, Organizational, Functions, Organization, Development of Technology

Abstract (https://www.psychosocial.com/article/PR290004/22590/) Download (/register-login)

Strategic Information Systems and Inter- Organizational Systems (https://www.psychosocial.com/article/PR290005/22592/)

Authors: Meiryani, Jajat Sudrajat, Zaidi Mat Daud, ASL Lindawati

DOI: 10.37200/IJPR/V24I9/PR290005 (https://doi.org/10.37200/IJPR/V24I9/PR290005)

Pages: 31-39

Keywords: Strategic, Information Systems, Inter, Organizational Systems, Strategic Decisions.

Abstract (https://www.psychosocial.com/article/PR290005/22592/) Download (/register-login)

Technology of Telecommunication System in Management Information Systems (https://www.psychosocial.com/article/PR290006/22594/)

Authors: Meiryani, Pariang Siagian, Anita Juwita, Yessi Fitri

DOI: 10.37200/IJPR/V24I9/PR290006 (https://doi.org/10.37200/IJPR/V24I9/PR290006)

Pages: 40-46

Keywords: Technology, Information Systems, Telecommunication System, Management Information Systems.

Abstract (https://www.psychosocial.com/article/PR290006/22594/) Download (/register-login)

The Effect of 6-weeks of Practicing Balance Exercises on Developing Agility for Youth Tennis Players (https://www.psychosocial.com/article/PR290007/22596/)

Authors: Sura Mahmoud Ali, Sama Mahmoud Ali

DOI: 10.37200/IJPR/V24I9/PR290007 (https://doi.org/10.37200/IJPR/V24I9/PR290007)

Pages: 47-53

Keywords: exercises; practicing; balance; agility; tennis

Abstract (https://www.psychosocial.com/article/PR290007/22596/) Download (/register-login)

The Effect of Using Flexible Grouping Strategy in Accordance with the Kinesthetic Training in Learning Some Football Skills

(https://www.psychosocial.com/article/PR290008/22598/)

Authors: Saad Amir Ismail, Hussein Ali Hussein, Imad Tu'ma Radhi

DOI: 10.37200/IJPR/V24I9/PR290008 (https://doi.org/10.37200/IJPR/V24I9/PR290008)

Pages: 54-62

Keywords: Flexible Grouping Strategy, Kinesthetic Training in Learning, Football Skills The findings reached by the

researchers

Abstract (https://www.psychosocial.com/article/PR290008/22598/)

Download (/register-login)

The Effectiveness of Special Exercises of Different Play Areas to Improve Tactical Acts for New Football Players of Al-Sinaa Club

(https://www.psychosocial.com/article/PR290009/22600/)

Authors: Ryead Mizhir Krebt, Haidar Ghadban Ibrahim

DOI: 10.37200/IJPR/V24I9/PR290009 (https://doi.org/10.37200/IJPR/V24I9/PR290009)

Pages: 63-68

Keywords: exercises in deferent places of the field, tactical acts

Abstract (https://www.psychosocial.com/article/PR290009/22600/) Download (/register-login)

The Use of Harmonic Training in Developing Some Motor Capabilities and Offensive Skills in Handball (https://www.psychosocial.com/article/PR290010/22602/)

Authors: Hardan Azeez Salman, Yaqub Youssuf Abdulzahra

DOI: 10.37200/IJPR/V24I9/PR290010 (https://doi.org/10.37200/IJPR/V24I9/PR290010)

Pages: 69-75

Keywords: Harmonic Training, Development, Of ensive Skills, Motor Capabilities

Abstract (https://www.psychosocial.com/article/PR290010/22602/) Download (/register-login)

The Effects of Skill and Physical Exercises on Developing the Explosive Power and Agility of Youth Basketball Players Defensive Skills

(https://www.psychosocial.com/article/PR290011/22604/)

Authors: Hussain Alaa Mohsen Al-Taee

DOI: 10.37200/IJPR/V24I9/PR290011 (https://doi.org/10.37200/IJPR/V24I9/PR290011)

Pages: 76-82

Keywords: Physical Exercises, Basketball, Explosive Power, Defensive Skills

Abstract (https://www.psychosocial.com/article/PR290011/22604/) Download (/register-login)

Use of Lévy's Model to Simulate Stock Dividends Actual Estimations of some Iraqi Banks (https://www.psychosocial.com/article/PR290012/22606/)

Authors: Dr. Munaf Youssuf Hamood, Mariyam Jum'a Moossa

DOI: 10.37200/IJPR/V24I9/PR290012 (https://doi.org/10.37200/IJPR/V24I9/PR290012)

Pages: 83-97

Keywords: Lévy's Model, Stock Dividends, Iraqi Banks

Abstract (https://www.psychosocial.com/article/PR290012/22606/) Download (/register-login)

Social Interaction and Its Relationship with the Counseling Communication Skills for Educational Counselors (https://www.psychosocial.com/article/PR290013/22608/)

Authors: Areej Hazim Mahdi

DOI: 10.37200/IJPR/V24I9/PR290013 (https://doi.org/10.37200/IJPR/V24I9/PR290013)

Pages: 98-118

Keywords: Social Interaction, Counseling Communication, Educational Counselors

Abstract (https://www.psychosocial.com/article/PR290013/22608/) Download (/register-login)

Section in the openings of Sur (The star, the pen, and the Morning Hours) Objective study (https://www.psychosocial.com/article/PR290014/22610/)

Authors: Salam Abbood Hasan

DOI: 10.37200/IJPR/V24I9/PR290014 (https://doi.org/10.37200/IJPR/V24I9/PR290014)

Pages: 119-130

Keywords: star, pen, Morning Hours

Abstract (https://www.psychosocial.com/article/PR290014/22610/) Download (/register-login)

Does Blended Learning Method Impact on Critical Ability? (https://www.psychosocial.com/article/PR290015/22612/)

Authors: Roni Faslah, Ari Saptono, Agus Wibowo, Suparno, Pinky Kandy, Susan Febriantina, Wisudani Rahmaningtyas

DOI: 10.37200/IJPR/V24I9/PR290015 (https://doi.org/10.37200/IJPR/V24I9/PR290015)

Pages: 131-142

Keywords: Technopreneurship; MSMEs, Business Empowerment

Abstract (https://www.psychosocial.com/article/PR290015/22612/) Download (/register-login)

Hybrid Mismatch Arrangement: Does it endanger tax base? (https://www.psychosocial.com/article/PR290016/22614/)

Authors: Ferry Irawan, Hanik Susilawati Muamarah, Dina Faqih Hastuti

DOI: 10.37200/IJPR/V24I9/PR290016 (https://doi.org/10.37200/IJPR/V24I9/PR290016)

Pages: 143-158

Keywords: hybrid mismatch arrangement, Indonesia state-owned enterprise

Abstract (https://www.psychosocial.com/article/PR290016/22614/) Download (/register-login)

Factors Affecting Voluntary Auditor Switching In LQ45 Companies Listed In Indonesia Stock Exchange (https://www.psychosocial.com/article/PR290017/22616/)

Authors: Bambang Leo Handoko, Maria Reneta, Tommy Andrian

DOI: 10.37200/IJPR/V24I9/PR290017 (https://doi.org/10.37200/IJPR/V24I9/PR290017)

Pages: 159-166

Keywords: Auditor, Switching, Financial, Distress, Delay, Opinion, ROA

Abstract (https://www.psychosocial.com/article/PR290017/22616/) Download (/register-login)

Indonesian Vocational Education Workplace Development (https://www.psychosocial.com/article/PR290018/22618/)

Authors: Ketut Ima Ismara, Bayu Rahmat Setiadi, Widodo, Idris Hadi Kuncoro

DOI: 10.37200/IJPR/V24I9/PR290018 (https://doi.org/10.37200/IJPR/V24I9/PR290018)

Pages: 167-176

Keywords: Workplace, facilities, classroom

Abstract (https://www.psychosocial.com/article/PR290018/22618/)

Download (/register-login)

Technopreneur: Small Business Empowerment for South Coast in Malang, Indonesia (https://www.psychosocial.com/article/PR290019/22620/)

Authors: Yuli Agustina, Trisetia Wijijayanti, Agung Winarno, Ely Siswanto, Bagus Shandy Narmaditya

DOI: 10.37200/IJPR/V24I9/PR290019 (https://doi.org/10.37200/IJPR/V24I9/PR290019)

Pages: 177-181

Keywords: Technopreneurship; MSMEs, Business Empowerment

Abstract (https://www.psychosocial.com/article/PR290019/22620/) Download (/register-login)

Examining the Economic Behaviour Among Fisherman Community (https://www.psychosocial.com/article/PR290020/22622/)

Authors: Sri Umi Mintarti, Agus Wibowo

DOI: 10.37200/IJPR/V24I9/PR290020 (https://doi.org/10.37200/IJPR/V24I9/PR290020)

Pages: 182-190

Keywords: Economic behaviour, Rationality, Irrationality,

Abstract (https://www.psychosocial.com/article/PR290020/22622/) Download (/register-login)

THE EFFECTS OF DELISTING ON MARKET LIQUIDITY: AN ANALYSIS OF THE ASEAN – 5 STOCK MARKETS

(https://www.psychosocial.com/article/PR290021/22624/)

Authors: Mohd Yushairi Mat Yusoff, Mohamad Syafiqi Hashim, Mahfuzah Salim, Nur Hafizah Ismail

DOI: 10.37200/IJPR/V24I9/PR290021 (https://doi.org/10.37200/IJPR/V24I9/PR290021)

Pages: 191-202

Keywords: Delisting; stock market; liquidity; ASEAN-5

Abstract (https://www.psychosocial.com/article/PR290021/22624/) Download (/register-login)

Leadership Role in Promoting Inclusive Education on the importance of Practices of Educational Leadership: A Review of Critical Literature (https://www.psychosocial.com/article/PR290022/22626/)

Authors: Dr. Tariq Mahmood Khan, Dr. Yahya Don

DOI: 10.37200/IJPR/V24I9/PR290022 (https://doi.org/10.37200/IJPR/V24I9/PR290022)

Pages: 203-211

Keywords: Leadership, Inclusive Education, Educational Leadership, school goals, supervising and evaluating

instruction, monitoring the students' progress and building professional development.

Abstract (https://www.psychosocial.com/article/PR290022/22626/) Download (/register-login)

Executive Compensation-Firm Performance relationship: A perspective from India (https://www.psychosocial.com/article/PR290023/22628/)

Authors: Dr. Arti Chandani, Dr. Mita Mehta, Dr. Harsha Sarvaiya

DOI: 10.37200/IJPR/V24I9/PR290023 (https://doi.org/10.37200/IJPR/V24I9/PR290023)

Pages: 212-220

Keywords: Corporate Governance, Executive Compensation, Firm's performance, Indian listed firms, transparency

Abstract (https://www.psychosocial.com/article/PR290023/22628/) Download (/register-login)

Correlation Between Iron Status And Blood Pressure With Nitric Oxide (NO) Levels Of Pregnant Women In Semarang City, Indonesia

(https://www.psychosocial.com/article/PR290024/22630/)

Authors: Mohammad Zen Rahfiludin*, Dina Rahayuning Pangestuti, Suyatno, Suroto **DOI:** 10.37200/IJPR/V24I9/PR290024 (https://doi.org/10.37200/IJPR/V24I9/PR290024)

Pages: 221-227

Keywords: Nitric oxide, serum transferrin receptor, hemoglobin, blood pressure, pregnant women.

Abstract (https://www.psychosocial.com/article/PR290024/22630/) Download (/register-login)

Problem Based Learning: Gender Responsive Alternative Learning Models for Vocational High Schools (https://www.psychosocial.com/article/PR290025/22632/)

Authors: Kokom Komariah, Herminarto Sofyan, Wagiran, Tuatul Mahfud

DOI: 10.37200/IJPR/V24I9/PR290025 (https://doi.org/10.37200/IJPR/V24I9/PR290025)

Pages: 228-238

Keywords: Problem-based learning, gender, vocational education, student-centered learning.

Abstract (https://www.psychosocial.com/article/PR290025/22632/) Download (/register-login)

Correlation Between Iron Status And Blood Pressure With Nitric Oxide (NO) Levels Of Pregnant Women In Semarang City, Indonesia

by M Zen Rahfiludin

Submission date: 13-Aug-2020 02:03PM (UTC+0700)

Submission ID: 1369077325

File name: FeStatusTekananDarahNOZenMei2020.pdf (212.01K)

Word count: 3794

Character count: 20868

Correlation Between Iron Status And Blood Pressure With Nitric Oxide (NO) Levels Of Pregnant Women In Semarang City, Indonesia

Mohammad Zen Rahfiludin^{1*}; Dina Rahayuning Pangestuti¹; Suyatno¹; Suroto²

Abstract—Cases of pregnant women's death are still high, and most are caused by bleeding and hypertension. However, studies that prove the relationship of iron status and blood pressure with Nitric Oxide levels for pregnant women are still limited. This study aims to analyze the relationship between hemoglobin level, serum transferrin receptor (sTfR), and blood pressure with nitric oxide level in pregnant women. This study used a cross-sectional design. Subjects were 79 pregnant women in their third trimester in Semarang City, Central Java Province, Indonesia. Hemoglobin level was measured with cyanomethamoglobin meanwhile serum transferrin receptor, and NO was measured with ELISA method. Data were analyzed with rank spearman. Study results reveal that the median of hemoglobin level was $11.30 \, \text{g/dl}$, the median of sTfR was $15.06 \, \text{nmol/l}$, and the median of NO was $63.69 \, \text{nmol/l}$. There were no correlation between NO with hemoglobin level (p=0.776; r=0.033) and sTfR (p=0.568; r=-0.065). There was an inverse correlation between NO and systolic blood pressure (p=0.014; r=-0.276), however there was no significant correlation between Pregnant women with normal blood pressure and hypertension. Among several variables studied, NO levels are only correlated with systolic blood pressure.

Keywords: Nitric oxide, serum transferrin receptor, hemoglobin, blood pressure, pregnant women.

I. INTRODUCTION

Maternal death cases are still a concern in many countries, especially in developing countries. The maternal mortality rate is still very high, according to the World Health Organization, there are 830 mothers worldwide who die from complications related to pregnancy and childbirth and 99% of all maternal deaths occur in developing countries [1]. It is estimated that in 2015, around 303,000 women died during and after pregnancy and childbirth. The leading cause is due to low resources, and most of it can be prevented [2]. Besides, the majority of cases of maternal mortality are due to bleeding cases and hypertension [3; 4; 5; 6; 7]. Previous studies have suggested that chronic hypertension increases the risk of maternal death 7.2-fold and increases the risk of prematurity, low birth weight, and low Apgar score [3]. Cases that cause the death of pregnant women such as iron-deficiency anemia often occur in rural areas [8].

Meanwhile, Indonesia, as part of a developing country, also noted that 38 mothers died every day due to cases of illness related to pregnancy and childbirth [1]. This condition provided an impetus for experts to conduct study of specific causes of maternal death. One of the special studies that need to be done is the relationship between iron status and blood pressure with levels of *Nitric Oxide* (NO) in pregnant women. Until now, studies that discuss the relationship between iron status and blood pressure with NO levels are still limited.

Mohammad Zen Rahfiludin¹; Dina Rahayuning Pangestuti¹; Suyatno¹; Suroto², ¹Department of Public Health Nutrition, Faculty of Public Health, Diponegoro University, Indonesia. ²Department of Occupational Safety and Health, Faculty of Public Health, Diponegoro University.

International Journal of Psychosocial Rehabilitation, Vol. 24, Issue 09, 2020

ISSN: 1475-7192

Email: rahfiludinzen@gmail.com.

Iron is an essential mineral for the synthesis of hemoglobin and myoglobin in a human body. During pregnancy, the requirement for absorbed iron increases from 0.8 mg/day in the first trimester to 7.5 mg/day in the third trimester. The average requirement for absorbed iron in the entire gestation period is 4.4 mg/day. Adequate iron status is essential for pregnant women and normal growth of the fetus. The absorbed iron is used for the expansion of pregnant woman's red cell mass as well as growth and development of organs in the fetus and placenta [9]. Anemia during pregnancy is still a global health problem that affects nearly half of all pregnant women worldwide. According to WHO, anemia during pregnancy is classified as severe if the hemoglobin level is below 7 g/dl, moderate if the hemoglobin level is between 7 to 9.9 g/dl and mild if the hemoglobin level is between 10 to 10.9 gr/dl [10]. Generally, the pathological cause of anemia during pregnancy is iron deficiency, which arises as a consequence of increased use of iron in the fetus [11]. Anemia during pregnancy increases perinatal risk and low birth weight infants [12].

Hemoglobin level is often used as pseudo-marker of iron deficiency. However, the hemoglobin level is not suitable to assess iron status, particularly during pregnancy [9]. Iron deficiency in tissue can be determined with biomarker *serum* transferrin receptor (sTfR), which is a single polypeptide chain protein contained in plasma. In contrast to plasma ferritin, plasma transferrin receptors are not affected by infection or inflammation; thereby, they can be used to differentiate iron deficiency anemia and anemia of chronic diseases [13]. A person is identified as having an iron deficiency if the sTfR level is equal to or more than 21.0 nmol/l [14].

Nitric Oxide (NO) is a biologic mediator synthesized from L-arginine. NO plays a role in physiological and pathological regulatory processes such as inflammation, vasodilation, and metabolism. It can increase the intracellular affinity of iron regulating proteins for elements that are responsive to iron in transferrin receptors and ferritin mRNA [15]. NO affects iron metabolism by distracting the iron-sulfur complex of iron regulating proteins. NO concentration in those with iron deficiency anemia increases gradually as iron deficiency develops and is three times higher than those with normal iron status. NO concentration has a positive correlation with sTfR, which is a sensitive indicator of erythropoiesis. It is related to low iron stores in those with severe iron deficiency anemia because the concentration of sTfR does describe not only erythropoiesis activity but also iron status. Hence positive correlation between NO concentration and sTfR is not caused by an increase of erythropoiesis activity but the severity of iron depletion [16]. In blood vessels, NO regulates blood vessel tone and blood flow by activating soluble guanylate cyclase (sGC) in vascular smooth muscle. Abnormalities in production and transport of NO to blood vessels cause endothelial dysfunction, such as hypertension [17].

Cases of pregnant women's death are still high, and most are caused by bleeding and hypertension. However, studies that prove the relationship of iron status and blood pressure with Nitric Oxide levels for pregnant women are still limited. Thus, this study aims to reveal the relationship between iron status and blood pressure with NO levels in pregnant women. Specifically, this study aims to analyze the correlation between hemoglobin level, sTfR, and NO in pregnant women.

II. MATERIALS AND METHODS

This study used the observational method with a cross-sectional design where variables were measured at the same time. The subjects were 79 pregnant women in their third trimester from three community health centers at Semarang City, Central Java Province (see Table 1). Variables of this study were hemoglobin level, serum transferrin receptor (sTfR), and nitric oxide (NO) level in pregnant women. Ethical Clearance No.197/EC/FKM/2017 was obtained from the Commission of Ethics of Medical and Public Health Research, Faculty of Public Health, Diponegoro University.

ISSN: 1475-7192

Characteristics of Subjects

Characteristics	N = 79
Age (years)	27.95 ± 5.08
Gestational Age (months)	8 (7 – 9)
Parity	2 (1 – 3)
Weight (kg)	50.0 (35.0 – 92.0)
Height (cm)	152.85 ± 5.73
Mid-Upper Arm Circumference (cm)	25.0 (19.8 – 35.0)
Monthly Income (thousand rupiahs)	2,000 (500 – 6,000)
Level of Education, n (%)	
Primary	25 (31.6)
Secondary to Higher	54 (68.4)
Blood Pressure (mmHg)	
Systolic	114.87 ± 13.64
Diastolic	72.00 (56.00 – 98.00)
Hemoglobin (g/dl)	11.30 (8.90 – 14.30)
sTfR (nmol/l)	15.06 (8.59 – 34.94)
NO (nmol/l)	63.69 (6.20 – 341.94)

Subject characteristic data such as age, level of education, and monthly family income were obtained through interview method in Indonesian and Javanese language, which is a traditional language of the local area. Anthropometric measurements were conducted to obtain data on body weight, height, and mid-upper arm circumference (MUAC) of pregnant women. Bodyweight was measured using a digital scale with an accuracy of 0.1 kg, height was measured using stature meter with an accuracy of 0.1 cm, and MUAC was measured using MUAC tape. Maternal blood pressure was measured using a digital sphygmomanometer with the Duplo method (twice measurements). Hypertension was defined as a systolic pressure of >120 mmHg and a diastolic pressure of >80 mmHg [18]. Data of nutrition intake was obtained through 24-hours recall method for two in consecutive days. Food intake was recorded on 24-hours recall form in household portion (plates, cups, tablespoons, and teaspoons), then converted into grams to analyze the nutritional content using Nutrisurvey software. Data of education level was classified as primary education and secondary to higher education. Subjects with primary education have studied at least nine years consisting of primary school or equivalent for six years and junior high school or equivalent for three years [19]. Meanwhile, secondary to higher education was defined as three years of education in high school or equivalent and four years in college.

About 5 ml of venous blood was taken to examine the hemoglobin level, sTfR, and NO. Hemoglobin level was measured with cyanomethamoglobin meanwhile, both sTfR and NO were measured with the ELISA method. Reagent kit used were Biovendor-Laboratomi Medivina, Karsek, Czech Republic (Cat: RD194011100) for sTfr measurement and R&D Systems, Inc., Minneapolis, USA (Cat: KGE001) for NO level measurement. sTfR and NO level were measured using Microplate Reader Biorad 680 model (Bio-rad Laboratories Inc, CA, USA) with software Microplate Manager version 5.2.1 (Bio-rad Laboratories Inc, CA, USA). The measurement was held in Prodia Laboratory.

Statistical analysis was conducted using SPPS software ver. 23. Based on the normality test with Kolmogorov-Smirnov, data on hemoglobin, sTfR, and NO level of pregnant women were analyzed using rank spearman test with 95% significance level to determine the correlation between variables. Mann-Whitney test was used to compare between NO level of pregnant women with their normal blood pressure and hypertension.

III. RESULTS

ISSN: 1475-7192

In this study, the mean age of subjects was 28 years, while the median of gestational age was eight months. Median of monthly family income was 2 million rupiahs approximately. There were 68.4% subjects with secondary to higher education level and 31.6% with primary education. Mean of systolic blood pressure was 114.87 mmHg, and a median of diastolic blood pressure was 72 mmHg. Median of sTfR and NO were 15.06 nmol/l and 63.69 nmol/l respectively.

Rank spearman test showed that there were no significant correlation between NO level with hemoglobin (p = 0.776) and sTfR (p = 0.568). NO level had a negative correlation with systolic blood pressure (p = 0.014; r = -0.276) but no significant correlation with diastolic blood pressure (p = 0.060) (see Tabel 2).

Correlation between NO Levels with Hemoglobin, sTfR, and Blood Pressure in Pregnant Women

Correlation between Variable	R	р
Correlation between NO and hemoglobin	0.033	0.776
Correlation between NO and sTfR	-0.065	0.568
Correlation between NO and blood pressure		
NO and systolic blood pressure	-0.276	0.014
NO and diastolic blood pressure	-0.212	0.060

Maternal blood pressure was classified into hypertension and normal to know the difference of NO level between both groups. Mann-Whitney test found a significant difference in NO levels between pregnant women who had hypertension and those with normal blood pressure (p = 0.036). Most pregnant women in this study had normal blood pressure (59.5%), while the rest of them had hypertension (40.5%) (see Table 3).

The Difference in NO Levels between Hypertensive and Normotensive Pregnant Women

Category of Blood Pressure	n	%	р
Hypertension			
Elevated	13	16.5	
Stage 1	13	16.5	0.036
Stage 2	6	7.5	
Normal	47	59.49	
Total	79	100.00	

IV. DISCUSSION

This study found that there was no correlation between NO level with hemoglobin level and sTfR. It is caused by an increase in the number of hormones during pregnancy. Maternal nitric oxide metabolite concentrations increased during pregnancy and declined before the labor at term. Nitric oxide can be synthesized from L-arginine via two constitutive calcium-sensitive isoforms of nitric oxide synthase (NOS), i.e., endothelial NOS (eNOS) and neuronal NOS (nNOS), or an inducible isoform (iNOS) which is calcium-independent. In uterine tissue of experimental animal (e.g., rats and rabbits), nitric oxide production was reported to be increased and would be decreased at term.

On the contrary, in human myometrium, NOS isoforms expression and the possibility of pregnancy-associated changes in their expression are still debatable [20]. Estrogen hormones are vasoactive hormones that can initiate rapid vasodilation in various vascular sites and perfusion of tissues throughout the body. The effects of rapid vasodilation of estrogen in the uterus are affected by arterial endothelial production from a vasodilator NO [21].

Another study in women aged 14-19 years showed that there was a correlation between NO levels and hemoglobin and sTfR [16]. NO levels of subjects with iron depletion were significantly higher than healthy subjects as controls. NO level

International Journal of Psychosocial Rehabilitation, Vol. 24, Issue 09, 2020

ISSN: 1475-7192

increased gradually as iron deficiency anemia developed and is three times higher than control when it is clear that they suffer from iron deficiency anemia. NO level is 7.5 times higher in those with severe iron deficiency (Hb <80 g / l) than those with high hemoglobin levels (Hb \geq 140 g / l) [16].

This study found that there was a correlation between NO and systolic blood pressure of pregnant women. It is related to the increase in the volume of blood stored in the cardiovascular system by systemic vasodilation during pregnancy. Vasodilation involves an increase in NO production, thereby reducing peripheral vascular resistance in healthy pregnant women. On the other hand, low NO production causes hypertensive disorders of pregnancy, such as preeclampsia and gestational hypertension [22]. In multiparous women with chronic hypertension, maternal serum NO levels are lower than in nulliparous. This is allegedly due cardiovascular burden of some previous pregnancies that affect the cardiovascular system and result in an increase of endothelial damage, thereby reducing NO production [23].

Blood pressure is generally lower in women than men and often decreases during pregnancy when estrogen and progesterone hormone increases. NO synthesis, which is the primary regulator of vasodilation is higher in women than men. An increase in NO production by vascular endothelial cells induces relaxation of surrounding vascular smooth muscle cells, resulting in vasodilation and decrease blood pressure [24].

This study also found a significant difference in NO level between hypertensive and normotensive pregnant women. A study in 28 weeks pregnant women showed a different result where NO excretion between hypertensive and normotensive pregnant women was not different significantly. However, there was a direct correlation between urinary NO, excretion, and a change in systolic blood pressure on hypertensive pregnant women between first-trimester antenatal booking visit and the third trimester [25]. A decrease in glomerular capillary function results in the release of essential substances such as renin, angiotensinogen, angiotensin I, angiotensin II, angiotensin-converting enzyme (ACE), aldosterone, bradykinin, and NO which ultimately leads to increased blood pressure. NO reduction also causes Na retention or increased sodium reabsorption (renal pressure natriuresis). This situation will increase total peripheral resistance and cardiac output and cause hypertension [26; 27].

In conclusion, this study showed that were no significant correlation between NO with hemoglobin and sTfR, which was allegedly related to an increase in estrogen and progesterone hormones during pregnancy. We also found that NO levels and systolic blood pressure had a negative correlation. Pregnant women with hypertension and normotensive had significantly different NO levels.

ACKNOWLEDGMENT

We thank the Ministry of Health of the Republic of Indonesia and the Public Health Faculty of Diponegoro University for its support in the funding of this research.

REFERENCES

- World Health Organization. (2018). Maternal mortality. Retrieved September 2, 2019, from https://www.who.int/news-room/fact-sheets/detail/maternal-mortality
- [2] Alkema, L., Chou, D., Hogan, D., Zhang, S., Moller, A., Gemmill, A., ... Say, L. (2016). Global, regional, and national levels and trends in maternal mortality between 1990 and 2015, with scenario-based projections to 2030: a systematic analysis by the UN Maternal Mortality Estimation Inter-Agency Group. The Lancet, 387(10017), 462–474. https://doi.org/https://doi.org/https://doi.org/10.1016/S0140-6736(15)00838-7.
- [3] Akbar, M. I. A., Adibrata, M. A., Aditiawarman, Aryananda, R. A., Angsar, M. D., & Dekker, G. (2019). Maternal and perinatal outcome related to severity of chronic hypertension in pregnancy. Pregnancy Hypertension, 16, 154–160. https://doi.org/https://doi.org/10.1016/j.preghy.2019.04.007

- [4] Centers for Disease Control and Prevention (CDC). (1999). Healthier mothers and babies.
- [5] Gupta, M., Greene, N., & Kilpatrick, S. J. (2018). Timely treatment of severe maternal hypertension and reduction in severe maternal morbidity. Pregnancy Hypertension, 14, 55–58. https://doi.org/https://doi.org/10.1016/j.preghy.2018.07.010.
- [6] Kementerian Kesehatan Republik Indonesia. (2014). Mother's day: Maternal Health Situation. Retrieved from http://www.depkes.go.id/resources/download/pusdatin/infodatin-ibu.pdf
- [7] Rosmiyati. (2015). The relationship between anemia and anemia in childbirth: Case study in Abdul Moeloek Hospital, Bandar Lampung in 2014. Jurnal Kebidanan, 1(2), 77–80.
- [8] Rahfiludin, M. Z., Pangestuti, D. R., & Dharmawan, Y. (2019). Hemoglobin and serum transferrin receptor differences in pregnant women in rural and urban areas of Central Java Province, Indonesia. Pakistan Journal of Nutrition, 18, 637–643. https://doi.org/10.3923/pjn.2019.637.643
- [9] Milman, N. (2011). Iron in Pregnancy How Do We Secure An Appropriate Iron Status in The Mother and Child? Annals of Nutrition and Metabolism, 59(1), 50–54. https://doi.org/10.1159/000332129
- [10] WHO. (2011). Haemoglobin Concentrations for The Diagnosis of Anaemia and Assessment of Severity. https://doi.org/2011
- [11] Lee, A. I., & Okam, M. M. (2011). Anemia in pregnancy. Hematology/Oncology Clinics, 25(2), 241-259.
- [12] Stevens, G. A., Finucane, M. M., De-Regil, L. M., Paciorek, C. J., Flaxman, S. R., Branca, F., ... Ezzati, M. (2013). Global, Regional, and National trends in Haemoglobin Concentration and Prevalence of Total and Severe Anaemia in Children and Pregnant and Non-Pregnant Women for 1995-2011: A Systematic Analysis of Population-Representative Data. Lancet Global Health, 1, e16–e25. https://doi.org/10.1016/S2214-109X(13)70001-9
- [13] Okafor, I. M., Okpokam, D. C., Antai, A. B., & Usanga, E. A. (2016). Iron Status of Pregnant Women in Rural and Urban Communities of Cross River State, South-South Nigeria. Nigerian Journal of Physiological Sciences, 31(Desember 2016), 121–125.
- [14] Khambalia, A. Z., Collins, C. E., Roberts, C. L., Morris, J. M., Powell, K. L., Tasevski, V., & Nassar, N. (2016). Iron Deficiency in Early Pregnancy Using Serum Ferritin and Soluble Transferrin Receptor Concentrations are Associated with Pregnancy and Birth Outcomes. European Journal of Clinical Nutrition, 70(3), 358–363. https://doi.org/10.1038/ejcn.2015.157.
- [15] Govindasamy, P., Olmos, A., Green, K., & Salazar, M. del C. (2018). Application of Many Faceted Rasch Measurement with FACETS. Asian Journal of Assessment in Teaching and Learning, 8, 23-35. https://doi.org/10.37134/ajatel.vol8.3.2018.
- [16] Choi, J. W., Pai, S. H., Kim, S. K., Ito, M., Park, C. S., & Cha, Y. N. (2002). Iron Deficiency Anemia Increases Nitric Oxide Production in Healthy Adolescents. Annals of Hematology, 81(1), 1–6. https://doi.org/10.1007/s00277-001-0409-4.
- [17] Luiking, Y., Engelen, M., & Deutz, N. (2010). Regulation of Nitric Oxide Production in Health and Disease. Current Opinion in Clinical Nutrition & Metabolic Care, 13(1), 97–104. https://doi.org/10.1097/MCO.0b013e328332f99d.REGULATION
- [18] National Institute of Health. (2004). The Seventh Report of The Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure.
- [19] Presiden Republik Indonesia. Peraturan Pemerintah Republik Indonesia Nomor 47 Tahun 2008 tentang Wajib Belajar., Pub. L. No. Peraturan Pemerintah Republik Indonesia Nomor 47 Tahun 2008 (2008).
- [20] Kakui, K., Itoh, H., Sagawa, N., Yura, S., Korita, D., Takemura, M., ... Fujii, S. (2004). Augmented endothelial nitric oxide synthase (eNOS) protein expression in human pregnant myometrium: Possible involvement of eNOS promoter activation by estrogen via both estrogen receptor (ER)α and ERβ. Molecular Human Reproduction, 10(2), 115–122. https://doi.org/10.1093/molehr/gah023.
- [21] Chen, D.-B., Bird, I. M., Zheng, J., & Magness, R. R. (2004). Membrane estrogen receptor-dependent extracellular signal-regulated kinase pathway mediates acute activation of endothelial nitric oxide synthase by estrogen in uterine artery endothelial cells. Endocrinology, 145(1), 113–125. https://doi.org/10.1210/en.2003-0547
- [22] Sandrim, V. C., Palei, A. C. T., Metzger, I. F., Gomes, V. A., Cavalli, R. C., & Tanus-Santos, J. E. (2008). Nitric Oxide Formation is Inversely Related to Serum Levels of Antiangiogenic Factors Soluble Fms-Like Tyrosine Kinase-1 and Soluble Endogline in Preeclampsia. Hypertension, 52(2), 402–407. https://doi.org/10.1161/HYPERTENSIONAHA.108.115006
- [23] Bartha, J. L., Comino-Delgado, R., Bedoya, F. J., Barahona, M., Lubian, D., & Garcia-Benasach, F. (1999). Maternal Serum Nitric Oxide Levels Associated with Biochemical and Clinical Parameters in Hypertension in Pregnancy. European Journal of Obstetrics, Gynecology, and Reproductive Biology, 82(2), 201–207.

- [24] Pang, Y., Dong, J., & Thomas, P. (2015). Progesterone Increases Nitric Oxide Synthesis in Human Vascular Endothelial Cells Through Activation of Membrane Progesterone Receptor-α. American Journal of Physiology - Endocrinology And Metabolism, 308(10), E899–E911. https://doi.org/10.1152/ajpendo.00527.2014
- [25] Cameron, I. T., Papendorp, C. L. van, Palmer, R. M. J., Smith, S. K., & Moncada, S. (1993). Relationship Between Nitric Oxide Synthesis and Increase in Systolic Blood Pressure in Women with Hypertension in Pregnancy. Hypertension in Pregnancy, 12(1), 85–92.
- [26] Hall, J. E., Granger, J. P., & Hall, M. E. (2013). The kidney, psiysiology and pathophysiology of hypertension (5th Ed.). USA: Elsevier Inc.
- [27] Hong, N. J., & Garvin, J. L. (2015). Endogenous flow-induced nitric oxide reduces superoxide-stimulated Na/H exchange activity via PKG in thick ascending limbs. American Journal of Physiology. Renal Physiology, 308(5), F444-9. https://doi.org/10.1152/ajprenal.00583.2014.

Correlation Between Iron Status And Blood Pressure With Nitric Oxide (NO) Levels Of Pregnant Women In Semarang City, Indonesia

ORIGINALITY REPORT

10% SIMILARITY INDEX

%

10%

INTERNET SOURCES

)% %

PUBLICATIONS

STUDENT PAPERS

PRIMARY SOURCES

Publication

K. Kakui. "Augmented endothelial nitric oxide synthase (eNOS) protein expression in human pregnant myometrium: possible involvement of eNOS promoter activation by estrogen via both estrogen receptor (ER) and ER ", Molecular Human Reproduction, 02/01/2004

2%

Nils Milman. "Prepartum anaemia: prevention and treatment", Annals of Hematology, 2008

2%

lain T. Cameron, Cecile L. van Papendorp,
Richard M.J. Palmer, Stephen K. Smith,
Salvador Moncada. "Relationship Between Nitric
Oxide Synthesis and Increase in Systolic Blood
Pressure in Women with Hypertension in
Pregnancy", Hypertension in Pregnancy, 2009
Publication

2%

4

Cheng Zhou, Jean-Michel Friedt, Angelina Angelova, Kang-Hoon Choi et al. "Human

Immunoglobulin Adsorption Investigated by
Means of Quartz Crystal Microbalance
Dissipation, Atomic Force Microscopy, Surface
Acoustic Wave, and Surface Plasmon
Resonance Techniques", Langmuir, 2004
Publication

Helle Margrete Meltzer, Anne Lise Brantsæter, Berit Borch-Iohnsen, Dag G. Ellingsen et al. "Low iron stores are related to higher blood concentrations of manganese, cobalt and cadmium in non-smoking, Norwegian women in the HUNT 2 study", Environmental Research, 2010

1%

Publication

Muhammad Ilham Aldika Akbar, Muhammad Arief Adibrata, Aditiawarman, Rozi Aditya Aryananda et al. "Maternal and perinatal outcome related to severity of chronic hypertension in pregnancy", Pregnancy Hypertension, 2019

1 %

Publication

Guolin He, Xinghui Liu, Ping Fan, Rui Liu, Yi Huang, Xiaosu Wang, Qin Li, Hongmei Wu, Yu Liu, Bingwen Liu, Huai Bai. "The C825T Polymorphism in the G-protein Beta 3 Subunit Gene in Chinese Patients with Preeclampsia", Hypertension in Pregnancy, 2009

1%

Publication

Marieke J. van der Werf, Bagoes Widjanarko, Michelle Gompelman, Maartje Dijkers. "Factors that influence treatment adherence of tuberculosis patients living in Java, Indonesia", Patient Preference and Adherence, 2009

<1%

Publication

Anouk Pels, Wessel Ganzevoort. "Safety and Efficacy of Ferric Carboxymaltose in Anemic Pregnant Women: A Retrospective Case Control Study", Obstetrics and Gynecology International, 2015

<1%

Publication

Exclude quotes

Off

Exclude matches

Off

Exclude bibliography

On

Correlation Between Iron Status And Blood Pressure With Nitric Oxide (NO) Levels Of Pregnant Women In Semarang City, Indonesia

GRADEMARK REPORT	
FINAL GRADE	GENERAL COMMENTS
/0	Instructor
PAGE 1	
PAGE 2	
PAGE 3	
PAGE 4	
PAGE 5	
PAGE 6	
PAGE 7	