

Abstract Book



The 2nd BTH-HSIC

The 2nd BTH-Health Science International Conference
"Health Science Research And Health Workforce Empowerment To Face Industry Revolution 4.0"
held on Saturday - Sunday, October 5-6, 2019
Tasikmalaya, West Java, Indonesia



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Abstract Book

THE 2nd BTH-HEALTH SCIENCE INTERNATIONAL CONFERENCE

*"Health Science Research and Health Workforce Empowerment
to Face Industry Revolution 4.0"*



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TABLE OF CONTENTS

Cover Page	i
Editor team	iii
Preface	iv
List of Oral and Poster Presenters	v
Abstracts	1
S01 Hamidah Hassan	Strengthening Nursing Core Competencies as Strategies Facing the Industry Revolution 4.0 2
S02 Carol Fe A. Gariando	Research Trajectory: Optometry Education in the 4th Industrial Age 3
S03 Ratana Lawung	Update Laboratory Diagnosis For Syphilis 4
S04 A.M. Gazzali	The Design of Anticancer Drug Carrier Through Active and Passive Strategies 6
O01 Ria Amelia	Relationship Between Levels of Fasting Blood Glucose and HbA1C in Prediabetes Patients 8
O02 Ummy Mardiana Ramdan	Microbial fuel cell based biocatalyst from traditional market waste water in Tasikmalaya and the application for energy production 9
O03 Khusnul	Influence of the growth of Candida albicans on several alternative media 10
O04 Meti Kusmiati	The Effect Of Soymilk Consumption Towards Reduction Levels Of Total Cholesterol And LDL Cholesterol On Menopause Women 11
O05 Rochmanah Suhartati	Antibacterial Activity Of Mangosteen Leaves Ethanol Extract (Garcinia Mangostana Linn) Against Enterobacteriaceae 12
O06 Tanendri Arrizqiyani	Anti mosquitoes assay of skin Durian to Aedes aegypti 13
O07 Meri	Relationship of Neutrophil Absolute Counts with Neutrophil Lymphocyte Ratio (NLR) in Hyperuricemia 14
O08 Rianti Nurpalah	The Examination Of HDL cholesterol In Respondents With Risk of Dyslipidemia 15
O09 Yane Liswanti	The Relationship Of Knowledge With Behavior Of Study Products, Diii Health Analysis In Handling Of Chemicals 16
O10 Korry Novitriani	In Silico Study Of Single Chain Fragment Variable (SCFV) On Chikungunya Virus Indonesian Strain 17
O11 Rudy Hidana	Effectiveness of Bandotan Leaf Extract (Ageratum conyzoides L.) on Death of Houseflies (Musca domestica) 18
O12 Dewi Peti	Clitoriaternatea Linn Extract as Natural Ph Indicator in 19

Relationship Between Levels of Fasting Blood Glucose and HbA1C in Prediabetes Patients

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ABSTRACT

Prediabetes is a condition where blood glucose levels are higher than normal but lower than the diagnosis of diabetes mellitus. Parameters prediabetes according to the American Diabetes Association 2017, blood glucose levels ≥ 100 - < 126 mg / dL in impaired fasting glucose, ≥ 12 mg / dL in impaired glucose tolerance and HbA1C level 5.7 - 6.4%. HbA1C is a specific glycosylated hemoglobin formed by the addition of glucose to the amino acid valine N-terminal on the α -hemoglobin chain. HbA1C test give an idea of the state of blood glucose in the last 2-3 months. The study aimed to determine relationship of fasting blood glucose and HbA1C value in determining prediabetes. Methods of research is descriptive, using secondary data. Data collection was carried out during April to September 2018 at one of the private hospitals in East Bekasi. Total samples inclusion factor were 92 samples. The Spearman test results showed relationship is positive and weak ($r = 0.230$) between fasting blood glucose test and HbA1C values in prediabetes with $\alpha = 0.05$. The results of this study indicate that value of fasting blood glucose affects value of HbA1C. The higher blood glucose is more Hb molecules that bind to sugar.

Keyword: Prediabetes, blood glucose levels, HbA1C, Glycated Hemoglobin and fasting blood glucose.

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