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

Judul Karya Ilmiah (Artikel) : Does a higher degree of education affect the performance of healthcare leaders? A systematic review
 Penulis : 3 Orang
 Status Pengusul : **Awal Prasetyo, Jethro Budiman, Muzakar Isa**
 Identitas Jurnal Ilmiah :
 a. Nama Jurnal : Bali Medical Journal (Bali MedJ) 2021,
 b. Nomor ISSN : p-2089-1180, E-2302-2914
 c. Vol, Nomor, halaman : Vol. 10, No. 1, p:174-180
 d. Edisi : April 2021
 e. Penerbit : Sanglah General Hospital
 f. Jumlah halaman : 7
 g. DOI artikel (jika ada) : <https://doi.org/10.15562/bmj.v10i1.2014>
 h. Alamat web jurnal : <https://www.balimedicaljournal.org/index.php/bmj/article/viewFile/2014/1683>
 i. Terindeks di : Scopus Q4, SJR 0,11
 j. On line turnitin : https://doc-pak.undip.ac.id/9473/2/TURNITIN_Does_a_higher_degree.pdf

Kategori Publikasi Jurnal Ilmiah : **Jurnal Ilmiah Internasional / Internasional Bereputasi ****
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- Kecukupan dan kemutakhiran data/informasi dan metodologi: Merupakan penelitian systematic review yang dilaksanakan dengan kaidah metode terstandar
- Kelengkapan unsur dan kualitas terbitan/ jurnal: JIB, terindex Scopus Q4, SJR: 0,11

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b. Ruang lingkup dan kedalaman pembahasan (30%)	9			8,9
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	9			8,9
d. Kelengkapan unsur dan kualitas terbitan/ jurnal (30%)	9			8,8
Total = (100%)	30			29,5
Nilai Pengusul =				60% x 29,5 = 17,7

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- Ruang lingkup dan kedalaman pembahasan : Lingkup bahasan sesuai dengan bidang ilmu Pengusul, hasilnya baik dan sangat berguna, pembahasan secara luas dan dalam dengan mensitasi pustaka baru dan relevan (64% < 10 tahun)
- Kecukupan dan kemutahiran data/informasi dan metodologi : studi systematic review dengan metode yang dijelaskan secara rinci dan jelas bahan dan caranya menggunakan panduan PRISMA
- Kelengkapan unsur dan kualitas terbitan/ jurnal: Bali Medical Journal (Bali MedJ), jurnal Internasional bereputasi terindeks Scopus Q4, Penerbit : Sanglah General Hospital

Semarang, 8 November 2022

Reviewer 2



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Successful total correction of Transposition of Great Artery in Surabaya's rural area experience: serial cases

Study of neutrophil-lymphocyte ratio in recent onset type 2 diabetes mellitus

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ABSTRACT

Introduction: The prevalence of type 2 diabetes mellitus (T2DM) is increasing throughout the world. Most of this increased burden will come from developing countries. Inflammation is a key component in the pathophysiology of diabetes. Estimation of neutrophil-lymphocyte ratio (NLR) is an inexpensive marker to stratify at-risk diabetes patients. This study aimed to estimate NLR in type 2 diabetes mellitus compared to healthy controls. We also investigated the effect of good glycemic control.

Methods: A cross-sectional comparative study, conducted in a tertiary hospital. Participants included type 2 diabetes mellitus patients and healthy controls after voluntary informed consent. Anthropometric parameters, fasting glucose, HbA1c were measured for all participants.

Results: The diabetic group showed significantly higher waist circumference (p=0.001), LDL-c (p=0.010), TG/HDL-c (p=0.001), HbA1c (p=0.00001), MPV (p=0.001) and lower HDL-c values (p=0.039) as compared to the control group. No significant difference was seen in waist-hip ratio, total cholesterol, and total cholesterol/HDL-c values between the two groups. However, HDL-c (p=0.018) and TG/HDL-c ratio (p=0.049) differed significantly with glycemic control.

Conclusion: Diabetics had higher inflammatory markers (NLR, CRP) as compared to healthy controls. Higher HDL-c with high TG/HDL-c and a higher waist circumference were seen in diabetics. Diabetics with good glycemic control (HbA1c < 7%) did not demonstrate lower NLR levels indicating that meticulous glycemic control does not reduce chronic inflammation seen in diabetics until dyslipidemia is corrected.

Keywords: Diabetes Mellitus, Dyslipidemias, Inflammation, HbA1c

Cite This Article: Didani, S., Poodury, S., Mangalesh, S. 2021. Study of neutrophil-lymphocyte ratio in recent onset type 2 diabetes mellitus. *Bali Medical Journal* 10(1): 11-16. DOI: 10.15562/bmj.v10i1.11-16

INTRODUCTION

The prevalence of Type 2 Diabetes Mellitus (T2DM) assumes epidemic proportions, both in developed and developing countries worldwide. The estimates suggest

that the prevalence of T2DM is increasing worldwide. Dyslipidemia, hyperglycemia, and central obesity.³

It is increasingly believed that oxidative stress and inflammation are the common denominators linking the pathogenesis of obesity, insulin resistance, and T2DM. The inflammatory process is a key component in the pathophysiology of diabetes. Estimation of neutrophil-lymphocyte ratio (NLR) is an inexpensive marker to stratify at-risk diabetes patients. This study aimed to estimate NLR in type 2 diabetes mellitus compared to healthy controls. We also investigated the effect of good glycemic control.



Mean pulmonary artery diameter in chest CT scan in the Thai population

Sitang Nirattisaikul¹, Nuttapat Sunpech¹, Ke

ABSTRACT

Introduction: Pulmonary hypertension has been associated with a significant increase in morbidity and mortality. The pulmonary artery diameter measurement from a CT scan is routinely used for the diagnosis of pulmonary hypertension. However, no data available as a reference for the normal range, the purpose of this study was to determine the normal diameter of the main pulmonary artery (MPA) and the ratio between MPA and AAO diameter in the Thai population.

Methods: Patients who met the inclusion criteria and had a chest CT performed between January 2014 and 14 July 2014 were enrolled. Measurement of the MPA diameter from an axial-view contrast-enhanced CT chest (venous phase) image was done and the AAO diameter was then calculated.

Results: 2395 patients were included in this study (male = 1271 patients, female = 1124 patients; mean age = 57 years old). The mean diameter of the MPA was 25.21 mm, and the mean AAO diameter was 30.6 mm. The mean MPA/ AAO ratio was 0.83. The sex-specific mean diameters of the MPA and AAO were 25.21 mm and 30.6 mm in men and 25.21 mm and 30.6 mm in women.

Conclusion: The mean MPA diameter obtained from chest CT scans in this study was 25.21 mm in men and 25.21 mm in women. These values are easily obtained from chest CT scans and are highly useful as a reference value for a healthy Thai population.

Keywords: Pulmonary artery, diameter, Thai population.

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INTRODUCTION

Pulmonary hypertension has been associated with a significant increase in morbidity and mortality.¹ It is involved in many clinical conditions and can complicate many cardiovascular and

disease.³ Many factors may affect the main pulmonary artery diameter such as sex, age, and underlying disease.^{3,4} An enlarged main pulmonary artery (MPA) is strongly related to pulmonary hypertension as a result of adaptation to the increased pulmonary pressure and

angiography tests, genetic tests, and invasive tests.