

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

Judul Artikel Ilmiah

: **Age and CD4 count are dominant factors in the prediction of anaemia in Javanese HIV patients**

Nama semua penulis

: Joko Wahyuwibowo, Stefani Harumsari, Siti Thomas Zulaikha, **Ari Suwondo**, Muchlis Achsan Udji Sofro, Suharyo Hadisaputro

Status Pengusul (coret yg tidak perlu)

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Status Jurnal:

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- Alamat WEB Jurnal/ Proceeding : <http://apjcn.nhri.org.tw/server/APJCN/27/3/index.php#top>
- Terindex di : Scopus SJR 2018 0,573

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b	Ruang lingkup & kedalaman pembahasan (30 %)	12	11
c	Kecukupan dan kemutahiran data/informasi dan metodologi (30 %)	12	10,5
d	Kelengkapan unsur dan kualitas jurnal (30%)	12	11
	Nilai Total	40	36,5
	Nilai yang didapat pengusul:	$36,5 \times 0,4 = 14,6 / 5 = 2,92$	

Catatan Penilaian artikel oleh Reviewer

a	Kelengkapan unsur isi artikel	Artikel yang ditulis sudah sesuai dengan pedoman penulisan Asia Pacific Journal of Clinical Nutrition
b	Ruang lingkup & kedalaman pembahasan	Ruang lingkup penelitian tentang anemia pada pasien HIV sudah sesuai dengan aspek klinisnya. Pembahasan menggunakan 23 jurnal dari 45 jurnal yang diacu
c	Kecukupan dan kemutahiran data/informasi dan metodologi	Metode penelitian ditulis cukup lengkap. Terdapat 10 jurnal yang terbitnya sudah lebih dari 10 tahun.
d	Kelengkapan unsur dan kualitas jurnal	Merupakan jurnal internasional

Semarang, 20 Maret 2020
Reviewer 1

Dr. Yuliani Setyaningsih, SKM, M.Kes
NIP. 197107141995032001
Unit kerja : Fakultas Kesehatan Masyarakat UNDIP
Jabatan : Lektor Kepala

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c	Kecukupan dan kemutahiran data/informasi dan metodologi (30 %)	12	11
d	Kelengkapan unsur dan kualitas jurnal (30%)	12	11
	Nilai Total	40	37
Nilai yang didapat pengusul:		$37 \times 0.4 = 14,6 / 5 = 2,96$	

Catatan Penilaian artikel oleh Reviewer

a	Kelengkapan unsur isi artikel	Kelengkapan dan kesesuaian isi jurnal cukup baik
b	Ruang lingkup & kedalaman pembahasan	Ruang lingkup dan kedalaman pembahasan cukup baik dan sesuai dengan scope jurnal yang dituju yaitu jurnal Asia Pacific Journal of Clinical Nutrition
c	Kecukupan dan kemutahiran data/informasi dan metodologi	Data infomasi dan metodologi cukup mutakhir. Acuan yang digunakan cukup banyak yaitu 42 karya ilmiah
d	Kelengkapan unsur dan kualitas jurnal	Merupakan jurnal internasional bereputasi dengan SJR 2018 0,573. Kualitas jurnal cukup baik, reviewer dari jurnal berasal dari berbagai negara

Semarang, 27 Januari 2020

Reviewer 2

Dr. Dra. Sulistiyani, M.Kes
NIP. 196809111993032013

Unit kerja : Fakultas Kesehatan Masyarakat UNDIP
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Asia Pacific Journal of Clinical Nutrition
Volume 27, Issue 3, 1 May 2018, Pages 649-654

Age and CD4 count are dominant factors in the prediction of anaemia in Javanese HIV patients (Article)

Wahyuwibowo, J.^a Harumsari, S.^b, Zulaikha, S.T.^c, Suwondo, A.^d, Sofro, M.A.U.^e, Hadisaputro, S.^f

^aDepartment of Nutrition, Faculty of Medicine, UNISSULA, Semarang, Indonesia

^bDepartment of Medical Biology, Faculty of Medicine, UNISSULA, Semarang, Indonesia

^cDepartment of Public Health, Faculty of Medicine, UNISSULA, Semarang, Indonesia

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Abstract

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Background and Objectives: Anaemia in Human Immunodeficiency Virus (HIV) infection is multifactorial and an increasingly important variable to consider in the management. This is the first study of anaemia in HIV infection in the Javanese population, which constitutes the largest ethnic group in Indonesia. The aim of this study was to determine the factors which are associated with anaemia in Javanese patients with HIV infection. **Methods and Study Design:** This study applied a cross-sectional design involving HIV patients in Dr Kariadi Hospital and Balai Kesehatan Paru Masyarakat (BKPM), Semarang, Indonesia. The characteristic data of the subjects were age, gender, BMI, duration of therapy and antiretroviral (ARV) drugs. Haematology tests were conducted using flow cytometry. **Results:** The prevalence of anaemia in HIV-infected patients was 21 (38.88%). Macrocytic anemia was found as a majority (12; 57.1 %) in anaemic patients. The risk factors which were found to be associated with increase of anaemia were white blood cells (WBC) $<5.0 \times 10^9/L$ and CD4 $<200.0 \text{ cells}/\mu\text{L}$ ($p < 0.05$). A correlation between anaemia and age ($r = 0.49$, $p < 0.01$), duration of treatment ($r = 0.35$, $p < 0.01$), CD4 count ($r = -0.42$, $p < 0.01$), total bilirubin ($r = -0.28$, $p < 0.05$), and unconjugated bilirubin ($r = -0.29$, $p < 0.05$) was identified. Age ($p = 0.023$) and CD4 count ($p = 0.07$) were the dominant factors in the multivariate analysis. **Conclusion:** Age and CD4 count are the dominant factors in determining of anaemia in Javanese patients with HIV infection. © 2017, HEC Press.

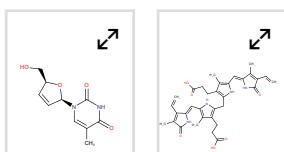
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Prevalence and predictors of anemia in hiv-infected persons in nepal

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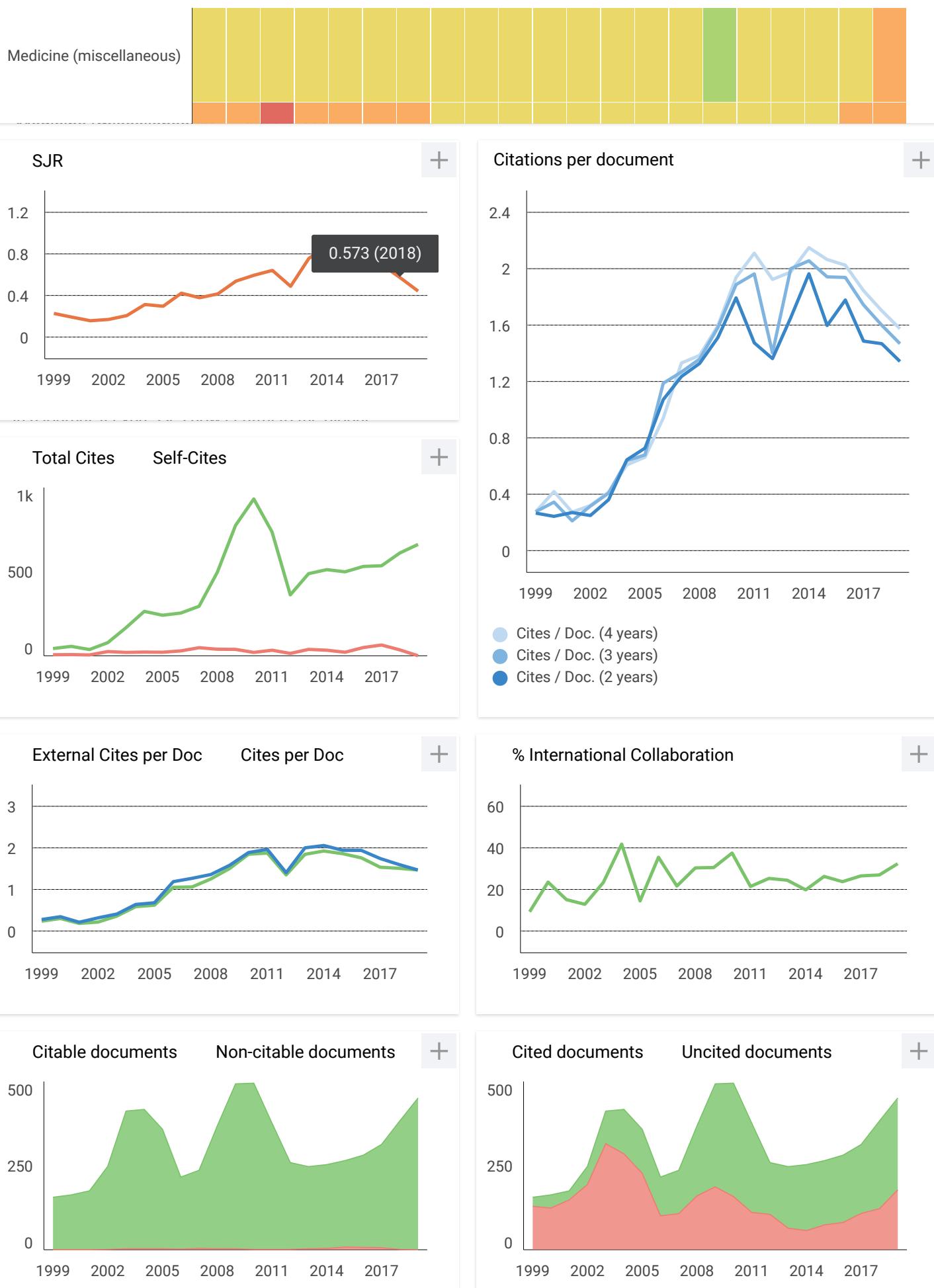
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Asia Pacific Journal of Clinical Nutrition

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Nursing	Nutrition and Dietetics	H Index
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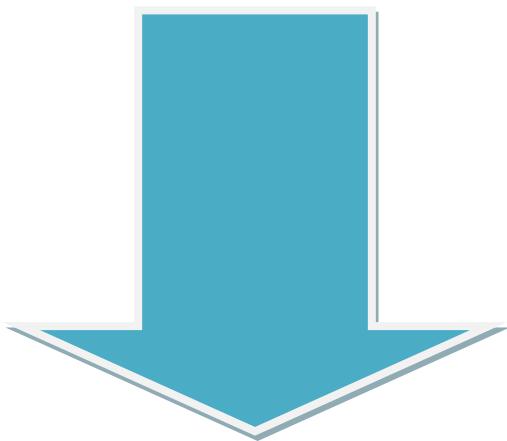
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TING YANG, LIANSHENG ZHANG, WEI BAO AND SHUANG RONG
doi: 10.6133/apjcn.042017.13
Asia Pac J Clin Nutr. 2018;27(3):491-502.

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The anti-wasting effects of L-carnitine supplementation on cancer: experimental data and clinical studies
MAHSA ESFAHANI, SAHAR SAHAFI, ALI DERAKHSHANDEH AND AZADEH MOGHADDAS
doi: 10.6133/apjcn.042017.10
Asia Pac J Clin Nutr. 2018;27(3):503-511.

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Pancreatic enzyme replacement therapy (PERT) in children with persistent diarrhea: avoidance of elemental diet need, accessibility and costs
ARIANI DEWI WIDODO, RIANTO SETIABUDY, INA S TIMAN, SAPTAWATI BARDOSONO, WIDDY WINARTA AND AGUS FIRMANSYAH

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doi: 10.6133/apjcn.082017.05
Asia Pac J Clin Nutr. 2018;27(3):512-518.

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Thalassemia and other hemoglobinopathies among anemic individuals in Metro Manila, Philippines and their intake of iron supplements
MARIO V CAPANZANA, MA ANGELINA L MIRASOL, GEOFFRY SMITH, IMELDA ANGELES-AGDEPPA, LEAH PERLAS, FRANCISCO DE LOS REYES AND MARIA SOFIA AMARRA
doi: 10.6133/apjcn.092017.01
Asia Pac J Clin Nutr. 2018;27(3):519-526.

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Malnutrition and chronic inflammation as risk factors for sarcopenia in elderly patients with hip fracture
JUN-IL YOO, YONG-CHAN HA, HANA CHOI, KYU-HWANG KIM,

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doi: 10.6133/apjcn.082017.02

Asia Pac J Clin Nutr. 2018;27(3):527-532.**Identifying errors in meals provided to and sourced by patients on therapeutic diets in hospital**

MEGAN RATTRAY, BEN DESBROW AND SHELLEY ROBERTS

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doi: 10.6133/apjcn.072017.10

Asia Pac J Clin Nutr. 2018;27(3):533-539.**Prognostic value of preoperative prognostic nutritional index in stage III gastric cancer after curative resection: a retrospective cohort study**

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doi: 10.6133/apjcn.072017.03

Asia Pac J Clin Nutr. 2018;27(3):540-545.**The impact of self-efficacy education based on the health belief model in Iranian patients with type 2 diabetes: a randomised controlled intervention study**

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doi: 10.6133/apjcn.072017.07

Asia Pac J Clin Nutr. 2018;27(3):546-555.**Cinnamon improves metabolic factors without detectable effects on adiponectin in women with polycystic ovary syndrome**

AZAM BORZOEI, MARYAM RAFRAF AND MOHAMMAD ASGHARI-JAFARABADI

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Asia Pac J Clin Nutr. 2018;27(3):556-563.**Efficacy of actininidin-containing kiwifruit extract Zyactinase on constipation: a randomised double-blinded placebo-controlled clinical trial**

IONA WEIR, QUAN SHU, NENGDING WEI, CHENGKAI WEI AND YI ZHU

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Asia Pac J Clin Nutr. 2018;27(3):572-580.**Effect of probiotic supplements in women with gestational diabetes mellitus on inflammation and oxidative stress biomarkers: a randomized clinical trial**

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doi: 10.6133/apjcn.092017.02

Asia Pac J Clin Nutr. 2018;27(3):592-598**Association of vitamin D deficiency with diabetic peripheral neuropathy and diabetic nephropathy in Tianjin, China**

LEPING FAN, YUE ZHANG, JIE ZHU, YIXUAN SONG AND JINGNA LIN

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doi: 10.6133/apjcn.062017.11

Asia Pac J Clin Nutr. 2018;27(3):599-606.***Maternal and Child Nutrition*****Effect of individualised dietary education at medical check-ups on maternal and fetal outcomes in pregnant Japanese women**

REIKO TAJIRIKA-SHIRAI, HIDEMI TAKIMOTO, TETSUJI YOKOYAMA,

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HITOSHI KANEKO, TOSHIRO KUBOTA AND NAOYUKI MIYASAKA

doi: 10.6133/apjcn.082017.01

Asia Pac J Clin Nutr. 2018;27(3):607-616.

Associations between socioeconomic status and overweight among urban children aged 7-12 years in Chengdu, southwest China

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doi: 10.6133/apjcn.022017.12

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doi: 10.6133/apjcn.092017.04

*Asia Pac J Clin Nutr. 2018;27(3):624-637.****Nutritional Epidemiology and Public Health***

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Is high sodium intake associated with hearing impairment? The association between spot urine sodium concentration and hearing threshold in Korean adolescents

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Age and CD4 count are dominant factors in the prediction of anaemia in Javanese HIV patients

JOKO WAHYUWIBOWO, STEFANI HARUMSARI, SITI THOMAS ZULAIKHA, ARI SUWONDO, MUCHLIS ACHSAN UDJI SOFRO AND SUHARYO HADISAPUTRO

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Glycemic load is associated with diabetes and prediabetes among middle-aged and elderly adults in Guangzhou, China

FENG-YI HE, CHAO-GANG CHEN, DIAO-ZHU LIN, FENG LI, XIU-HONG LIN, ZHI-MIN YUAN AND LI YAN

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Food Guide Pagoda and the food safety of women: one-year follow-up study on the effects of the 2008 Sichuan Earthquake

XIANGLONG XU, BING LI, RUIXUE BAI, YUNSHUANG RAO, LINGLI LIU, CESAR REIS, MANOJ SHARMA AND YONG ZHAO

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Oral health behavior as a risk factor for high urinary sodium among Korean women

KYUNGDO HAN, NAMRYANG KIM, YOUNGKYUNG KO, YONG-GYU PARK AND JUN-BEOM PARK

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Taste sensitivities and diet of Chinese and Indians in Singapore

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Original Article

Thalassemia and other hemoglobinopathies among anemic individuals in Metro Manila, Philippines and their intake of iron supplements

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Background and Objectives: Iron deficiency is the most common cause of anemia worldwide. In Southeast Asia, studies showed that genetic hemoglobin disorders also contribute significantly to the burden of anemia. The study aimed to estimate the proportion of thalassemia and other hemoglobinopathies versus iron deficiency and other causes in a sample of anemic individuals; describe the characteristics of thalassemic subjects in terms of severity of anemia, adequacy of iron stores, and hematological profile; examine the intake of iron supplements among individuals with varying causes of anemia. **Methods and Study Design:** A random sample of 101 anemic individuals living in Metro Manila was examined. Hemoglobinopathy was determined using capillary electrophoresis. Iron deficiency was determined using immunoradiometric assay for serum ferritin. A questionnaire was used to obtain information on the use of iron supplements. **Results:** The most frequent underlying cause of anemia was iron deficiency (37.6%), followed by anemia due to other causes (34.7%), and hemoglobinopathy (27.8%). The most prevalent form of hemoglobinopathy was alpha-thalassemia trait (20.8%), followed by beta-thalassemia trait (5%), iron deficiency anemia with concomitant HbE (1%), and beta-thalassemia HbE interacting (1%). Thalassemic subjects exhibited mild anemia, had either normal or excessive iron stores, and did not ingest iron supplements. **Conclusion:** The majority of anemia (62.5%) in this sample was due to other causes and hemoglobinopathy, rather than iron deficiency. Genetic hemoglobin disorders appear to be common among anemic individuals. Population screening is needed to determine the real prevalence of the disease. Further investigation is needed to identify other causes of anemia among Filipinos.

Key Words: thalassemia, genetic hemoglobin disorders, Philippines, anemia, iron deficiency

INTRODUCTION

Iron deficiency caused by blood loss and inadequate iron intake is the most common cause of anemia worldwide.¹ However, recent studies suggest that in certain countries particularly those in Southeast Asia, genetic hemoglobin disorders (or hemoglobinopathies) also contribute significantly to the burden of anemia.²⁻⁶ There are two main groups of inherited hemoglobin disorders: thalassemias and structural hemoglobin variants.⁷ Thalassemic syndromes occur when gene defects cause hemoglobin synthesis disorders. Hemoglobin structure in these cases is normal but the amount of hemoglobin synthesized is limited. Abnormal (variant) hemoglobin results when gene defects cause changes in hemoglobin structure.⁸ Clinical symptoms vary from mild microcytic hypochromic anemia to life-threatening anemia requiring blood transfusions, depending on the type of abnormality inherited. In Southeast Asia, the most prevalent inherited hemoglobin disorders are α -thalassemia, β -thalassemia, hemoglobin (Hb) E and Hb Constant Spring (CS).⁹ More than 60

different syndromes arising from various abnormal gene combinations have been identified, making Southeast Asia a region with several complex hemoglobinopathy genotypes.⁹

Genetic abnormalities such as thalassemias cause ineffective erythropoiesis. Ineffective erythropoiesis is a condition in which large numbers of marrow erythrocyte precursors undergo apoptosis or cell death and thus fail to develop into mature erythrocytes.¹⁰ While homozygous individuals have more severe illness, heterozygous thalassemia carriers are not completely healthy as they always

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Original Article

Malnutrition and chronic inflammation as risk factors for sarcopenia in elderly patients with hip fracture

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Background and Objectives: To evaluate malnutrition and chronic inflammation as risk factors for sarcopenia in elderly patients with hip fractures, as defined by the criteria of the Asian Working Group on Sarcopenia (AWGS). **Methods and Study Design:** A total of 327 elderly patients with hip fractures were enrolled in this retrospective observational study. The main outcome measure was the nutritional status and nutritional risk factors for sarcopenia in elderly patients. Diagnosis of sarcopenia was made according to the guidelines of the AWGS. Whole body densitometry analysis was used to measure skeletal muscle mass, and muscle strength was evaluated by handgrip testing. Multivariable regression analysis was utilized to analyze the nutritional risk factors for sarcopenia in patients with hip fractures. **Results:** Of 327 patients with hip fractures (78 men and 249 women), the prevalence of sarcopenia was 60.3% and 30.1% in men and women, respectively. The rates of three indicators of malnutrition in men and women (low BMI, hypoalbuminemia, and hypoproteinemia) in sarcopenia patients with hip fractures were 23.4%, 31.9%, and 53.2% and 21.3%, 21.3%, and 37.3%, respectively. The prevalence of markers of chronic inflammation (increased CRP and ESR) in men and women with sarcopenia and hip fractures were 74.9% and 52.2%, and 49.3% and 85.1%, respectively. After adjusting for covariates, low BMI and hypoproteinemia in women were associated with a 2.9- and 2.1-fold greater risk of sarcopenia than non-sarcopenia, respectively. **Conclusions:** The present study revealed a strong relationship between sarcopenia and malnutrition and chronic inflammatory factors in elderly patients with hip fractures.

Key Words: chronic inflammation, hip fracture, malnutrition, sarcopenia, elderly

INTRODUCTION

Sarcopenia has its own International Classification of Disease in the Tenth Revision, Clinical Modification (ICD-10-CM). The assigned code is M62.84, and it was available for use as of October 1, 2016.¹ In the near future, studies related to sarcopenia will most likely become more popular.

So far, several studies have reported that development of sarcopenia is related to multifactorial and interrelated biological mechanisms, including age, physical inactivity, nutritional factors, and biological markers such as sex hormones, oxidative products, and inflammatory cytokines.^{2,3} Of those mechanisms, chronic activation of the inflammatory response is the key physio-pathological substrate for anabolic resistance, sarcopenia, and frailty in older individuals.⁴ ESR and CRP are recognized worldwide as biologic markers of infection or inflammation and can serve as useful predictors of sarcopenia.⁴ Many studies have reported that chronic inflammation is associated with sarcopenia in patients with chronic diseases.⁵⁻⁷

Hip fracture is a common condition in patients with sarcopenia and results in high mortality, morbidity, and

socioeconomic burden.^{8,9} Recently, several epidemiological studies have reported a higher prevalence of sarcopenia in patients with hip fractures.^{10,11} However, the relationship between nutritional status and chronic inflammation as risk factors for sarcopenia in elderly patients with hip fractures is not well understood.

The purpose of the present study was to evaluate the relationship between malnutrition and chronic inflammation and sarcopenia in elderly patients with hip fractures, as defined by the criteria of the Asian Working Group on Sarcopenia.

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