Prosiding A New Alternative

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ACCELERATING THE ACHIEVEMENT OF SUSTAINABLE DEVELOPMENT GOALS FOR THE IMPROVEMENT AND EQUITABLE DISTRIBUTION OF POPULATION HEALTH

SEBEIAS MARET UNIVERSITY



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The Quality of Care at the Independent Midwifery Clinics, Surabaya <i>Indria</i> Nuraini	120
l::ffect of Brain Button on the Development of Pre-School Children in Lamongan, East Java Lilis Mc glifi roh, Ati'u! III parti <	121
TOPIC V: NUTRITIONAL EPIDEMIOLOGY	
Sodium, Fat, and Cholesterol Contents in East Java Traditional Food Harun Al R(l\() Jid	123
Phytochemical Screening and Test of Antioxidant Activity in the Extract of Mangosteen Rind Rika Nailuvar Sinaqa, Nurhaniida Sari Siregar	124
Gender, Diet, and Metabolic Syndrome in Adolescents in Malang, East Java <i>Rizki Mustika Risuiari</i> , Dono <i>Indarto</i>	125
Dental Maturity, Oral Hygiene and Height of Junior High School Students in Goiter Endemic Area in Karanganyar Regency Risya Cilmianj, Selfi Handayani, Widia Susanti	126
A New Alternative Quac-Stick to Predict the Risk of Chronic Energy Deficiency in Malay Indonesian Women (18-49 Years) Ummi Kalsuui, Bambang Sutrisna, Ratna Djuuiita, Endang L Achadi, Abas Basuni Jahari	127
Effect of Health Education on Maternal Knowledge and Child Nutritional Status among Children Under Three Years Old With Undernutrition, in Pasuruan, East Java Fiashriel Lundy	128
Pizza and Humburger Consumption as Risk Factors for Overweight in Adolescents in Jambi Ummi Kalsum, Sahridayanti Nainggolan	129
Association between Feeding Pattern and Nutritional Status among Toddlers, in Jombang, East Java Tri Ratnaningsih	130
TOPIC VI: OTHERS Comparison of Diabetes Mellitus Prevalence between Universal and Targeted Screening among Tuberculosis Patients in Resource Limited Settings Ancilla Cherisha Illinantyas, Raspati C. Koesoemadinata, Rovina Ruslami, Bachti Alisjahbana	132

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A NEW ALTERNATIVE QUAC-STICK TO PREDICI' THE RISK OF CHRONIC ENERGY DEFICIENCY IN MAIAY INDONESIAN WOMEN (18-49 YEARS)

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 Ministry of Health, Jakarta

ABSTRACT

BACKGROUND: Indicators to assess the nutritional status in women of reproductive age (WRA) 5 particular to identify chronic energy deficiency (CED) were still limited. Upper arm circumference (MUAC) and the Body Mass Index (BMI) had been used to assess the status of CED, but it still has its limitations. This study aimed to develop a new indicator QUAC-Stick (the ratio of MUAC to Upper Arm Length (UAL)) for the risk assesement of CED on WRA in Malay Indonesia women (18-49 years).

SUBJECT AND METHODS: The cross sectional study design, used a part of data from National Basic Health Research (Riskesdas) 2013 and primary collecting data among 1009 WRA aged 18-49 years (not pregnant) in Makassar and Tana Toraja, South Sulawesi Province. Analysis used the ROC to get the optimal formula and the cut off point using BMI as the gold standard.

Results: MUAC/¹IUAL (named UMMI index) with a cut-off point < 4.25 to detect the risk of CED, had better validity (Sn=8o% (95% CI=70.8 to 87.3); Sp= 84% (95% CI = 81.4 to 86.3); PPV = 35% (95% CI = 29.2 to 42.0); NPV = 97% (95% CI = 96.1 to 98-4; ROC = 82% (95% CI = 80.0 to 86.1) compared to MUAC < 23,5 with the gold standard was BMI <18.5. Prevalence of C�D on WRA 9.9% (BMI <18.5); 22-4% (MUAC/¹IUĀL< 4.25). The validity of MUAC < 23.5 was good (Sn = 76%, Sp = 87.2%), but the optimal cut-off point for screening was MUAC < = 24,0 cm (Sn = 90%, Sp=77%). The correlation (r) between MUAC-weight = 0.82; UAL-Height = 0-45; MUAC-BMI = 0.82 and MUAC/.JUAL to BMI = 0.80 (P = 0.000). Conclusion: The new alternative indicator was MUAC/¹IUAL <4.25 to assess the risk of CED on WRA in Malay Indonesia women (18-49 years). Further revalidation study is needed to be able applying the indicator to the wider population.

Keywords: Ratio, MUAC, Women of reproductive, CED, Arm Length

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