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TYG/BMI AS AN INTEGRAL INDEX OF INSULIN RESISTANCE IN POSTMENOPAUSAL WOMEN

L. Ruyatkina¹, D. Ruyatkin¹, I. Iskhakova²

¹*Urgent therapy with endocrinology and profpathology, Federal State Budget Educational Institution High Education "Novosibirsk State Medical University» of the Ministry of Health of Russian Federation», Russia*

²*Endocrinology, State Budget Healthcare Institution of Novosibirsk region "City Clinical Hospital #1", Russia*

Purpose: To assess the relationship of the TyG/BMI index with HOMA2IR in postmenopausal women as the metabolic syndrome (MS) clustering. **Methods:** The 94 postmenopausal women aged 58.02 ± 5.88 rated for NCEP ATP III were divided into 3 glycated hemoglobin (HbA1c). Group 1 composed 52 women (48 had 3 MS signs, 4 only 2) with type 2 diabetes mellitus (T2DM); 16 with prediabetes (8 with MS, the rest had 1-2 signs of MS) were group 2; group 3 comprised 26 normoglycemic women (8 had 1-3 signs of MS). TyG/BMI and HOMA2IR (evaluated by C-peptide) were determined. Statistical processing was performed using STATISTICA (version 7.0): $M \pm SD$; Spearman's correlation coefficient (r); achieved significance level (p) 0.05. **Results:** HbA1c levels in groups of 1-3 were: 7.3 ± 1.0 ; 6.2 ± 0.2 and $5.5 \pm 0.4\%$, respectively. TyG/BMI: 282.5 ± 57.4 ; 242.7 ± 61.6 ; 199.5 ± 36.2 (p between groups ≤ 0.040); HOMA2IR 2.05 ± 1.02 ; 1.71 ± 0.69 ; 1.49 ± 0.77 respectively ($p_{1-3} = 0.025$). The TyG/BMI index correlated with HOMA2IR in groups 1-3: $R = 0.46$; 0.71 ; 0.61 , respectively; $p = 0.002-0.000$). In the general group ($n = 94$) TyG/BMI correlates with waist circumference, HDL-Cholesterol level and duration of hypertension (0.84: -0.68 and 0.53: $p = 0.000$). **Conclusions:** Index TyG/BMI, evaluating insulin resistance through interrelations of dysglycemia and metabolic dyslipidemia in close connection with anthropometric characteristics, can be considered as its integral indicator in postmenopausal women. **Financial Disclosure:** No



www.comtecint.com

Headquarters and Administration:

1 Rothschild Boulevard
PO Box 68
Tel Aviv 61000, Israel
Tel: +972-3-5666166
Fax: +972-3-5666177
Email: info@comtecmed.com

Comtec Spain:

Bailén, 95-97
prat. I. a - 08009
Barcelona, Spain
Tel: +34-93-2081145
Fax: +34-93-4579291
Email: spain@comtecmed.com

Comtec China:

Suite 504, Universal Center Building
175 Xiang Yang Road South
Shanghai 200031, China
Tel: +86-21-54660460
Fax: +86-21-54660450
Email: china@comtecmed.com