**AGREEMENT BETWEEN DIFFERENT MARKERS FOR THE DIAGNOSIS OF OVERWEIGHT AND OBESITY**

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Due to overweight and obesity relate to metabolic and cardiovascular diseases, has become essential the validation of rapid, accessible and noninvasive markers for the diagnosis of excess of weight. However, one of the problems when diagnosing obesity and overweight is the disagreement about the cut-offs to identify them.

Purpose: To evaluate the agreement between different index for the diagnosis of undesirable body composition.

Methods: Ninety subjects (30±10 years, 71±15 kg, 167±1 cm) were evaluated. Waist circumference, height, body weight, and skinfolds were taken in duplicate and the body composition was measured by Bioelectrical Impedance and skinfold method. Numerical data were dichotomized into desirable and undesirable level and was calculate the Kappa index.

Results: as noted in table 1 the agreement between the methods varied at different levels of moderate classification. The highest and significant agreement was found between body mass index (BMI) and waist circumference.

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| Table 1. Agreement of between different index for the diagnosis of undesirable body composition. |
|  | Waist circumference | BMI | % Body fat BIA  | % Body fat skinfold  |
| % Body fat skinfold | 0.49 | 0.45 | 0.68 | ---- |
| % Body fat BIA | 0.45 | 0.54 | ---- | 0.68 |
| BMI | 0.75 | ---- | 0.54 | 0.45 |
| Waist circumference | ---- | 0.75 | 0.45 | 0.49 |
| Agreement was tested by Kappa index. |

Conclusions: It was demonstrated moderate agreement between indexes for the diagnosis of undesirable body composition. The easiest and low cost methods showed greater agreement among themselves.