# Evaluation and comparison of five skinfold calipers [Evaluación y comparación de cinco calibres de pliegues cutáneos]

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Introduction: The use of reliable, valid and precise skinfold calipers are key for an adequate anthropometric evaluation and corporal composition analysis. Objective: To compare five models of skinfold calipers -Prime Vision (PV); Harpenden (HP); Sanny (SN); Cescorf (CE); Lange (LA)-. Materials and methods: Thirty-five men (age = 21.5 ± 2.7 y; body mass 72.2 ± 8.0 kg; height 1.76 ± 0.06 m) were recruited and skinfolds (i.e., triceps, biceps, subscapular, pectoral, mid-axillary, suprailiac, abdominal, mid-tight, mid-calf) were measured. Four body fat predictive equations (Durnin y Wimberley; Pollock 3DC; Pollock 7DC; Petroski) were used. Normality assumption for all data was verified with the Shapiro-Wilk test. Predicted body density and fat were compared between skinfold calipers using a two-way ANOVA, with Scheffe post hoc procedures. The level was set at p ? 0.05 for statistical significance. Results: No significant differences were observed between skinfold calipers for predicted body density or body fat. Conclusion: Skinfold calipers compared in this study are precise and efficient to quantify and assess body density and body fat. 

Anthropometry

Body composition

Skinfold calipers

anthropometry

comparative study

devices

evaluation study

human

male

obesity

predictive value

skinfold thickness

young adult

Adiposity

Anthropometry

Humans

Male

Predictive Value of Tests

Skinfold Thickness

Young Adult