Abstract

Anthropometry is important as a clinical tool for individual follow-up as well as for planning and health policy-making at population level. Recent references of Bolivian Adolescents are not available. The aim of this cross-sectional study was to provide age and sex-specific centile values and charts of Body Mass Index, height, weight, arm, wrist and abdominal circumference from Bolivian Adolescents. Data from the MEtabolic Syndrome in Adolescents (MESA) study was used. Thirty-two Bolivian clusters from urban and rural areas were selected randomly considering population proportions, 3445 school-going adolescents, 12 to 18 y, 45% males; 55% females underwent anthropometric evaluation by trained personnel using standardized protocols for all interviews and examinations. Weight, height, wrist, arm and abdominal circumference data were collected. Body Mass Index was calculated. Smoothed age- and gender-specific 3rd, 5th, 10th, 25th, 50th, 75th, 85th, 90th, 95th and 97th Bolivian adolescent percentiles (BAP) and Charts (BAC) were derived using LMS regression. Percentile-based reference data for the anthropometrics of Bolivian Adolescents are presented for the first time.

Keywords

Anthropometry, Body Mass Index (BMI), Growth percentiles, Waist circumference, Abdominal circumference, Height, Weight, Adolescents, Bolivia.