

Comparative Study of Body Composition between City and Rural Area Boys in Gandhinagar

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Abstract

The purpose of this study was to compare the Body Composition of Gandhinagar City and Rural Boys. Thirty boys of Gandhinagar City and thirty boys from rural institutions of Gandhinagar District were selected randomly for the the study. Weight (Kg), Body Mass Index, Fat (%), Fat Mass, Total Body Water was measured by standard techniques as described by *Weiner & Lourie (1969)*. The study revealed that the city and rural boys of Gandhi Nagar do not demonstrate significant differences in their body composition.

Keywords: Rural, City, Boys, BMI, Body composition, Weight, total Body Water

Introduction

Considerable changes are taking place in the India's` children in urban-rural conditions and have greatly impacted the social and biological transformation of populations. The urbanization process, however, occurs under different circumstances among countries (*Valladares and Coelho, 1993*). Living in areas distinguished by population size can be linked with differences in eating habits, right of entry to sport facilities, sanitation and health services and opportunities for physical activities (*Tsimeas et al, 2005*). Urban and rural environmental differences in growth of children have come into spotlight of interest in the last years. There are numerous studies which have reported contradictory evidences in samples from various countries and cultures and with various age ranges. *Bielicki (1986)* and *Eiben et al (2005)* reported that within a specific country or cultural group in Europe, children who were living in urban areas have greater size than children in rural areas, while there were no

significant differences in the growth status in children who were living in urban and rural areas in United States and Canada (*Malina et al, 1981; Eveleth & Tanner, 1990; Pena Reyes et al, 2003*), *Lin et al (1992)* reported China's` children in urban-rural conditions. Data from Africa, also, revealed that urban-rural contrasts are evident in the growth and body size (*Cameron et al, 1992; Pawloski, 2002*).

Because the special situation of Gandhi Nagar district of Gujrat State in India, which has many rural populations near to urban areas, the present study was chosen to consider urban-rural differences in body composition in urban-rural communities.

The purpose of this study was to compare the Body Composition & fitness of Gandhinagar City and Rural Boys. Thirty boys of Gandhinagar City and thirty boys from rural institutions of Gandhinagar District were selected randomly for the the study. Weight (Kg), Body Mass Index, Fat (%), Fat Mass, Total Body Water was measured by