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Classification of human vital statistics using statistical methods

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This study investigates the relationship between weight, sex and some other body measurements and attributes of individual using data drawn from the community of Kintampo in the Bono East Region. A predictive model for weight is then fitted to these data. It is found that the optimum model involves the sex of a person and his or her index of volume. That is the product of square of hip size and height as predictive variables. A simple weight chart based on this model for classifying a person as underweight, normal or overweight is then constructed. The importance of this chart to health conditions and its usage are briefly discussed. The Body Mass Index (B.M.I) calculation was also used to calculate individuals for classifying individual as underweight, normal or overweight and its health risk implications. The highest weight (kg) recorded was 125kg which corresponds to 165cm height (cm). The BMI score recorded was 37.90kg/m² can be classified as obese. Meanwhile the highest height (cm) recorded was 219cm at the weight (kg) of 62kg. In this case the BMI recorded was 14.2kg/m² which was underweight. Furthermore, the average weight of this study was 49.83kg while the average height of the study is 133.62cm. Therefore, the average body mass index (BMI) of this study is 18.6690kg/m² which is classified as normal. Therefore, the study has no health risk implications or condition of overweight and obesity on the people of Kintampo Municipality in the Bono East Region

Biography

Albert Appiah Boateng is an young researcher at Yamfo Ministry of Health in Ghana. He is working as a assistant professor of Health committiee of Ghana. He is currently working on the research and published many papers in the popular journals.

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