PREDICTION MODEL FOR BLOOD PRESSURES IN CHILDREN OF LAHORE

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Abstract: A cross sectional study was conducted in old wall city of Lahore to find out normative data of blood pressure values of children from 4-16 years age. The data will be used to develop suitable predication models to determine blood pressure of 4-16 year old children. Five hundred children were randomly selected for blood pressure measurements. Furthermore 300 female and 200 male children were selected through stratified random sampling technique. Arterial blood pressure values followed a normal distribution in the selected population. Using regression analysis and artificial intelligence modeling, prediction models will be developed to predict blood pressure based upon age groups.

Key words: Prediction, regression model, artificial intelligence, blood pressure age.