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As for increasing prevalence of obesity in children, it is essential to use a measure that accurately diagnoses obesity children. e purpose of this study was to determine the sensitivity and speci city of body mass index (BMI) compared to fat mass index (FMI) as a measure of child actual obesity. is cross-sectional study was conducted in 580 girls aged 8-10 In this study, FMI at or above 90th percentile of age speci c data (FMI 6.9) legent nown as obese and FMI less than 90th percentile are known as normal weight. ROC curves to evaluate performance BMI against FMI was used to determine the actual obesity. e kappa test was done to determine whether the two criteria were used to de ne obesity in children. Mean and SD BMI and FMI in children was 19.4±3 (kg/m d 6±2.1 (kg/m) respectively. e area under the ROC curve 83% was calculated and the sensitivity and speci city and cut-o point of BMI compared with FMI was calculated 2f.2nkg/59 percent and 97 percent. e agreement between BMI=21.2 kg/m FMI=6.9 kg/m to determine obesity was 0.5. In this study, the BMI sensitivity was poor and only 59% of the children who were obese based on FMI, were also obese based on BI and 3% of the children, who were identi ed as non-obese based on FMI, were obese based BMI. FMI seems more accurate measure of obesity than BMI is, however, more research is needed in this area.

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