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Fat Mass Index (FMI) relates body fat mass to height and allows comparing body fat mass of individuals at di erent heights. In this study, dietary calcium intake and some nutritional factors in obese children aged 8-10 were investigated. In this study, 580 children with FMI at or above the 90th percentile of age-speci c data (FMI 6.9 kg/m^2) known as obese in case group and 600 children with FMI less than the 90th percentile are known as normal weight in control group was classi ed. In this study, body fat mass was measured by bio impedance analyzer and for calcium intake; we used a validated food frequency questionnaire. In the case group calcium intake was signi cantly lower than the control group (574±112 and 836±161 mg/d) (P<0.01), respectively. In this study, we use three model of logistic regression. In model one, a er adjustment for total energy intake and the percentage of energy from macronutrients inverse association between calcium intake and obesity was signi cant. In model two by further adjustment for the e ect of fruits and vegetable intake inverse association between calcium intake and obesity was signi cant and in model three by further adjustment for the e ect of physical activity level inverse association between calcium intake and obesity became weaker but yet was signi cant. Even a er controlling for confounding factors the inverse relationship between calcium intake and FMI remained signi cant. In this study, we showed that FMI may be a more accurate index that shows the association between calcium intake and obesity.

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