

Research Article

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Keywords:Nutrition; 7itamins; Malnutrition

Introduction

age group 7-9 years. Total 200 rural school going children i.e. 100 boys and 100 girls were selected proportionately for the study, from the Govt. Primary School of Mangali and Kaimri villages of Hisar district,

Historically, the science of nutrition developed in part from the Haryana.

study of disease entities brought about by inadequate diet. Nutritional status is the condition of health of an individual as in uenced by with the help of questionnaire-cum-interview schedule. Food and nutrient intake and utilization in the body. Malnutrition is major public health problem in developing countries. Freedom from hunger and malnutrition is a basic human right and their alleviation is fundamental prerequisite for human and national development. Usually referred to as silent emergency, it has devastating e ects on children, society and future humankind. e term malnutrition refers to both underby taking mean of three days intake and compared with nutrition as well as over-nutrition. Better nutrition means stronger^{re}commended dietary allowances [2].

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immune system, less illness, better health and productive community. Nutritional status of all the selected children was assessed by In developing countries like India various forms of malnutrition a ect measuring body height (cm), weight (kg) which was compared with a large segment of population and both macro and micronutrient the NCHS(National Center for Health Statistics) Standards and the de ciencies are of major concerns. e school age period is nutritionally standards given by ICMR (Indian Council of Medical Research) signi cant because this is the prime time to build up body stores of nutrients in preparation for rapid growth of adolescence. Nutrition (2008). Height of children was measured by a vertical measuring plays a vital role, as inadequate nutrition during childhood mayod calibrated in centimetres placed on plain floor. Weighing lead to malnutrition, growth retardation, reduced work capacity and palance calibrated in kilogram and gram was used for taking weight of poor mental and social development [1]. In children, protein/calorid^{espondents}.

de cient diet results in underweight, wasting and lowered resistance Malnutrition was calculated as normal, mild, moderate and severe to infection, stunted growth and impaired cognitive development and according to Gomez classi cation [3] of weight for agreent for agreent learning. e situation of child malnutrition is also grave in Haryana classi cation [4] for height for age. state asaccording to National Family Health Survey (2005-2006), the

state asccording to National Family Health Survey (2005-2006), the prevalence of wasted, stunted and underweight children in this state was found to be 19, 38 and 46 percent, respectives, of the research work that has been conducted on nutritional status of children is limited to infants and preschool children only. ere is dearth information on nutritional status of school going children particularly from rural areas. Keeping this in view, the objective of present study was to assess the nutritional status of rural school-going children of Hisar district, Haryana.

Materials and Methods

e present study was conducted on school going children in the

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Results and Discussion

Food consumption pattern revealed that the daily mean intake of the food groups i.e. cereals, pulses, fats and oils, sugar and jaggery, mi and milk products, green leafy vegetables, other vegetables, roots and tubers and fruits, was found to be signi cantly (P<0.01) lower than the recommended dietary intake, however the intake of pulses was adequate (60.98%). Similar were the ndings of [5-10] who reported that the diets were cereals based and very low frequency of consumption girls but boys were also a ected. Finding of earlier study [16] showed that stunting was higher in boys of Delhi as compared to girls. In girls, prevalence of wasting was higher in comparison to boys as also reported by Chowdhary.

Summary

Food consumption pattern revealed that the daily mean intake of the food groups i.e. cereals, pulses, fats and oils, sugar and jaggery, milk and milk products, green leafy vegetables, other vegetables, roots and tubers and fruits, was found to be signi cantly (P<0.01) lower than the recommended dietary intake, however the intake of pulses was adequate (60.98%). Regarding the intake of the nutrients viz. energy, protein, fat, -carotene, B-complex vitamins, vitamin C, iron and calcium was found to be signi cantly (P<0.01) lower than the recommended dietary allowances, the lowest being iron (28.6%) and Vitamin(7786). It was also observed that the nutrient intake was higher in boys as compared to girls (Table 6).

Anthropometric measurements showed that mean height, weight and skin fold thickness at triceps were signi cantly (P<0.05) lower than the reference value in both boys and girls and signi cant di erence was found on comparing the anthropometric measurement of boys and girls. Regarding prevalence of malnutrition, it was found that 54.11 percent of the school children were stunted and 55.5% were underweight. Citation: Sati V, Dahiya