

ABSTRACT

ZINC SUPPLEMENTATION AND ITS IMPACT TO NUTRITIONAL STATUS FOR ELEMENTARY SCHOOL CHILDREN IN SUBDISTRICT SEDATI DISTRICT SIDOARJO EAST JAVA

Dian Shofiya.

The objective of this study was to investigate the influence of zinc supplementation on the increase of body weight, body height, height for age, weight for age, weight for height ratios, food consumption, calory and protein intakes.

This quasi experiment was undertaken for 2 months using non equivalent control group design with double blind. Population were elementary school children of year II and III in Sedati subdistrict, Sidoarjo district. The samples were screened using the following criteria: height for age $< -2SD$ and zinc status $< 150 \mu\text{gr/Kg}$. Screening by simple random sampling relieved 35 subject. Using allocation random sampling subject they were devided into two groups, group one consisted in 18 subject and group two consisted in 17 subject. i.e. group one that received zinc suplement and group two that received placebo. Before being given with suplement, those groups received anti helminthic drugs.

Result showed hightly significant difference in pretest and post test in body weight, body height, body weight, height for age, weight for age, weight for height, food consumption, calory and protein intakes with $p = 0.000$.

Influence of suplementaion on increase of body height, body weight, height for age, weight for age, weight for height, food consumption, calory and protein intake showed the value of $p = 0.000$.

Keywords : Zinc, increase of body weight, body height, height for age, weight for age, weight/height ratios, food consumption, calory and protein intakes.