

SITUATION ANALYSE OF IODIZED SALT IN GOITER ENDEMIC AREA

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ABSTRACT

Objectives: to get information on prevalence of goiter in elementary school students and iodine concentration in salt and its handling in the households located in Purworejo district.

Materials and Methods: prevalence of goiter in elementary school students was determined by palpating their necks. Concentration of iodine in salt purchased in the local markets and the households was determined qualitatively with rapid test kit. Iodine concentration in salt from randomly assigned households (stratified for subdistrict) was qualitatively and quantitatively assayed. In depth interview of KAP on household salt handling was performed. Analysis of agreement on quantitative and qualitative data of iodine concentration in salt was also performed.

Results: The highest prevalence of goiter was found in Pituruh Subdistrict (prevalence 37%). Seven of 12 kinds of marketed salt contained iodine (qualitatively). Among the 610 household salt, only 46.6% contained iodine. Quantitatively, 8% contained 30 ppm iodine, while 42% sensitivity 100% and specificity 55% contained 10 ppm iodine. Data on KAP suggested that: knowledge on signs of goiter 64.8%, 36.9% of the households accustomed to buy salt in the local market; 85.2% accustomed to buy iodized salt; knowledge on the ability of iodine to prevent goiter 75.9%; salt stored in closed container 67%; salt stored away from fire 65.2%.

Conclusion: Purworejo district has areas with high prevalence of endemic goiter as seen from the prevalence in Elementary School students. Most of the kitchen salts in the community have underscore level of iodine, even with negative content in more than 50%. About ¾ of women told knowing that iodine consumption can prevent goiter and about ¾ knew how to keep the kitchen salts in the proper way.

Key words: Endemic Goiter - Prevalence in School children - Iodated Salt - Community Knowledge