

ABSTRACT

Nutrition problems in toddlers can hamper children's development. Toddlers are included in the age group at high risk for disease. Deficiency or excess intake of nutrients in infants can affect the nutritional status and health status. The purpose of this study was to design a weight and height measurement tool equipped with an assessment of the nutritional status of toddlers. Nutritional status assessment is needed if there is a deviation in the nutritional status of infants can be immediately given action so that the condition of the toddler does not deteriorate. The contribution of this research is measuring the weight and height of a toddler. From the weight and height data can be known assessment of the nutritional status of children under five. The main basis in the study of nutritional status of children using anthropometric methods. The making of this module is designed by using Arduino as the main controller. Weight sensor uses a load cell sensor. The load cell output will be strengthened by the HX711 module then processed by Arduino, then displayed in the form of an assessment of nutritional status. Based on the results of weight measurements in 5 toddlers using loadcell sensors obtained a maximum error of 0.32% with an average error of 0.132%. This tool can be implemented in monitoring the growth and weight of toddlers.

Keywords : Body Weight, Anthropometry, Load Cell