

**THE RELATIONSHIP BETWEEN CHRONIC ENERGY DEFICIENCY
(CED) IN PREGNANT WOMEN AND THE INCIDENCE OF LOW BIRTH
WEIGHT (LBW) AT THE BORU HEALTH CENTER**

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ABSTRACT

Background: Nutritional status and health during pregnancy are critical factors in determining the quality of human resources. Inadequate nutritional intake can impact the optimal growth and development of the fetus, affecting physical, mental, and cognitive aspects. One of the nutritional issues faced by pregnant women is Chronic Energy Deficiency (CED). Pregnant women experiencing CED may suffer from health complications for both themselves and their babies, including low birth weight and even mortality. **Purpose:** To determine the relationship between Chronic Energy Deficiency (CED) in pregnant women and the incidence of low birth weight (LBW) at Boru Health Center. **Method:** This research is an Analytical Correlational study with a Document Study design and a case-control approach. The total population consists of 179 individuals, who were selected using total sampling techniques. The statistical test use the Fisher's Exact Test (with an alpha level of 5%). **Results:** Of the 152 mothers who did not experience Chronic Energy Deficiency (KEK), majority did not have Low Birth Weight (BBLR) with a count of 145 individuals (81.01%), while a smaller number experienced BBLR, totaling 7 individuals (3.91%). In contrast, among the 27 mothers who experienced KEK, more than half did not have BBLR, amounting to 18 individuals (10.05%), while less than half experienced BBLR, totaling 9 individuals (5.03%). **Conclusion:** Based on the results of the Fisher's Exact Test, the p-value of 0.001 is smaller than the alpha level of 0.05. Therefore, it can be concluded that there is a relationship between the incidence of nutritional anemia (KEK) in pregnant women and the incidence of low birth weight (BBLR) at the Boru Community Health Center

Keywords: Pregnant women, CED, LBW