

## ABSTRACT

**Maryani. 2024. The Correlation between the Body Mass Index of Pre-Pregnant Women and the Weight and Body Length of Newborn Babies at the Soemidyah Ipung Independent Midwife Practice (TPMB) Malang City. Politeknik Kesehatan Kemenkes Malang. Pembimbing Utama: Dr. Kissa Bahari, S.Kep., Ns., M.Kep. Pembimbing Pendamping: Nur Eva Aristina, SST., M.Keb.**

*Low birth weight or what is usually called LBW is still the main cause of death in babies in Indonesia, according to 2018 Riskesdas data. The presence of LBW cases and low birth length can certainly have an impact on the health and development of babies so that it will cause problems with physical development and growth. which is hampered and mental development which will affect the future. The aim of the research was to determine whether there was a relationship between the pre-pregnant mother's body mass index and the weight and body length of the newborn. This research uses an analytical observational research type with a cross sectional design. This research was conducted from May to June at TPMB Soemidyah Ipung, Malang City. Data collection used a checklist sheet. The sample used a non-probability sampling technique, namely purposive sampling of 54 mother and baby medical record data. The results of the Spearman Rank correlation test with a significance value of  $p$  value 0.000 ( $< 0.05$ ) show that there is a relationship between the BMI of pre-pregnant mothers and the weight and body length of newborn babies at TPMB Soemidyah Ipung, Malang City. The results of the analysis of pre-pregnant mothers' BMI data were almost entirely normal and the birth weight and body length of the babies were normal. Based on the results of this research, it is hoped that health workers can assess the mother's weight before pregnancy during the first visit during pregnancy and can provide education to prospective and pregnant women to pay attention to nutrition before and during pregnancy.*

**Keywords: BMI of pre-pregnant women. Birth weight, birth length**