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Jurnal Gizi dan Pangan (Journal of Nutrition and Food) is an official publication of Food and Nutrition Society of Indonesia (PERGIZI PANGAN Indonesia) and Departement of Community Nutrition, IPB University, since 2006. Currently, this journal is top-ranked in Indonesia, among other journals in the category of nutrition and food.

This journal is an open access scientific journal that publishes original research articles in the area of nutrition and food, covering the aspects of biochemistry, clinical nutrition, community nutrition, functional foods, and socio-economic aspects of nutrition and food, including nutrition and food database and regulations.

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## FAKTOR RISIKO KEJADIAN BERAT BADAN LAHIR RENDAH DI AREA PERTANIAN (STUDI DI KABUPATEN BREBES)

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**DOI:** <https://doi.org/10.25182/jgp.2017.12.1.41-48>

**Keywords:** low birth weight, risk factors, pesticides exposure

### Abstract

The aim of this study was to analyze the risk factors of Low Birth Weight (LBW) in agricultural area (Breses district) with high pesticide exposure. The research was an observational study with case control design. Study subject were post partum-productive age (20-35 years) women, consisting of 60 cases (LBW) and 60 controls (non-LBW). The independent variables were maternal weight gain during pregnancy, MUAC in early pregnancy, hemoglobin levels in the third trimester body mass index before pregnancy and level of pesticides exposure. Nutrient intake data was obtained by semiquantitative food frequency questionnaires (FFQ), maternal and child health (KIA) book and data on level of pesticide exposure was obtained through a structured interview. Data were analyzed by calculating the Odds Ratio (OR) using logistic regression. There was no differences in age between cases and controls. Median length, mother's education level, BMI and MUAC among the cases was lower than the control group.

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