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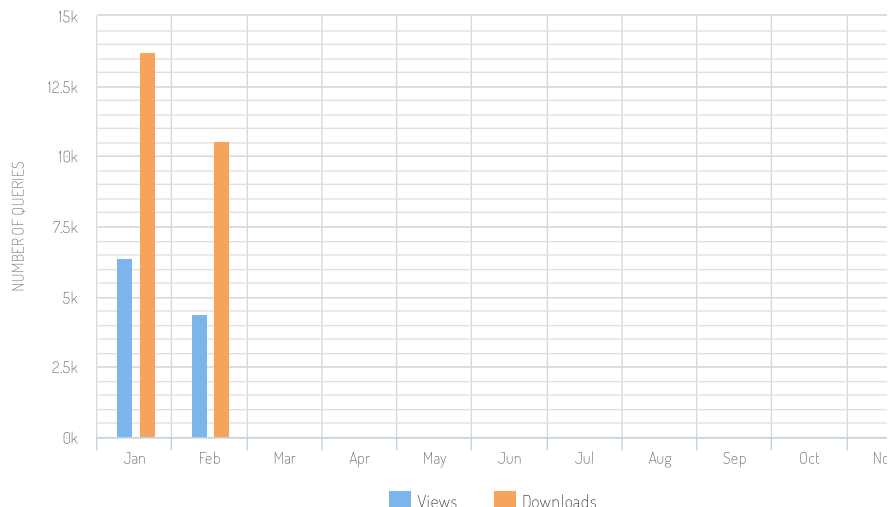
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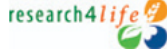


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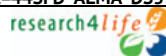


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Vol 7, No 2 (2019)

Table of Contents

Articles

Riwayat paparan pestisida dan kekurangan asupan zat gizi sebagai faktor risiko kejadian anemia pada ibu hamil di daerah pertanian

(<https://ejournal.undip.ac.id/index.php/jgi/article/view/20662>)

PDF

(<https://ejournal.undip.ac.id/index.php/jgi/article/view/20662/15283>)

69-75

👤 Sulistyawati Sulistyawati, Ani Margawati, Ali Rosidi, **Suhartono Suhartono**

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📄 Citations { 1 }

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Status antioksidan dan oksidatif laki-laki yang mengalami kegemukan dengan pemberian minuman rosela ungu


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PDF

(<https://ejournal.undip.ac.id/index.php/jgi/article/view/21762/15284>)

76-85

 Sriyanti Sriyanti, Evy Damayanthi, Faisal Anwar


 Views: **709 (#)**

 Citations: 0

(<https://badge.dimensions.ai/details/doi/10.14710/jgi.7.2.75-85?domain=https://ejournal.undip.ac.id>)

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Pengaruh pemberian susu almond terhadap glukosa darah puasa pada tikus diabetes


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PDF

(<https://ejournal.undip.ac.id/index.php/jgi/article/view/20857/15300>)

86-91

 Ryta Ristantia Ningsih, Enny Probosari, Binar Panunggal


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 Citations: 0

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(<https://doi.org/10.14710/jgi.7.2.86-91>)

 Received: 31 Oct 2018; Published: 14 Jun 2019.


Kebiasaan konsumsi kopi teratur dan pengaruhnya terhadap resorpsi tulang: C-telopeptida dan kalsium serum pada olahragawan


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PDF

(<https://ejournal.undip.ac.id/index.php/jgi/article/view/22261/15285>)

92-98

 Yusni Yusni, Safrizal Rahman


 Views: **701 (#)**

 Citations: 0

(<https://badge.dimensions.ai/details/doi/10.14710/jgi.7.2.92-98?domain=https://ejournal.undip.ac.id>)

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Studi kualitatif faktor yang mempengaruhi orang tua dalam pemberian makan anak autis


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99-108

 Rusda Camelia, Hartanti Sandi Wijayanti, Choirun Nissa


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Status hidrasi, tingkat kebugaran jasmani dan daya konsentrasi anak sekolah dasar


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109-113

 Agus Sudrajat, Maria Mexitalia, Ali Rosidi


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Abstract

Background: Anemia in pregnant women in Brebes Regency, Central Java in 2016 was still high at 60.7%. Brebes Regency is an area of onion farming with a high intensity of pesticide use. **Objectives:** This study aimed to prove the history of pesticide exposure and lack of nutrient intake (iron and vitamin C) was risk factor for the incidence of anemia in pregnant women in agricultural area. **Methods:** Case control study with 41 cases (anemia) and 41 controls (non-anemia) as study subjects. The subjects were selected using purposive sampling method. Pesticide exposure history included the involvement of pregnant women in agricultural activities, frequency of exposure and length of exposure was measured by interview using structured questionnaire. Anemia data were obtained by measuring hemoglobin levels. Other independent variables measured were nutritional intake (protein, iron, and vitamin C) using semi-quantitative food frequency questionnaire (SQ-FFQ) method to determine the level of nutrient adequacy in pregnant women. Data were analyzed using chi-square test and logistic regression. **Result:** Hemoglobin levels in the case ranged from 7.2 g/dl to 10.9 g/dl. The results of multivariate logistic regression showed that pesticide exposure history (OR= 4.9, 95% CI:1.75-13.67), level of iron adequacy (OR = 2.9, 95% CI:1.06- 8.29) and level of vitamin C adequacy (OR = 3.4, 95% CI:1.10- 10.28) as risk factors for the

incidence of anemia in pregnant women in agricultural area. **Conclusion:** *The history of pesticide exposure and lack of nutrient intake (iron and vitamin C) was risk factor for the incidence of anemia in pregnant women in agricultural area.*

Keywords: anemia; agricultural area; pregnant women; pesticide exposure history; nutrient intake

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