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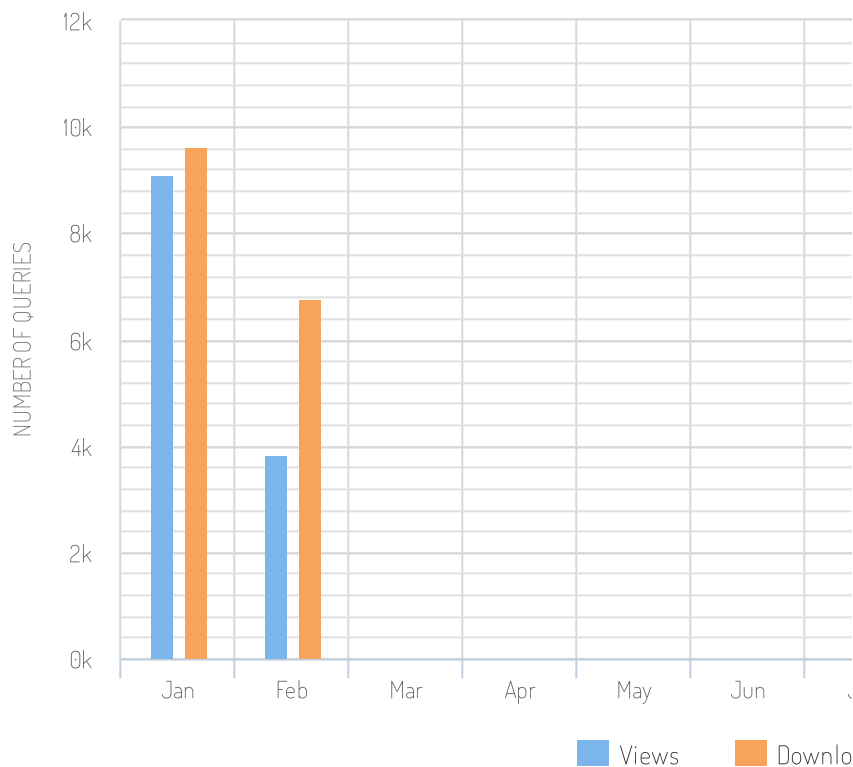
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(<https://ejournal.undip.ac.id/index.php/jkli/about/editorialPolicies#peerReviewProcess>)
- **Article Processing Charge** (<https://ejournal.undip.ac.id/index.php/jkli/about/editorialPolicies#custom-0>)
- **Publication Ethics** (<https://ejournal.undip.ac.id/index.php/jkli/about/editorialPolicies#custom-1>)
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(<https://ejournal.undip.ac.id/index.php/jkli/about/editorialPolicies#openAccessPolicy>)
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- [Journal History \(https://ejournal.undip.ac.id/index.php/jkli/about/history\)](https://ejournal.undip.ac.id/index.php/jkli/about/history)
- [Statistics \(https://ejournal.undip.ac.id/index.php/jkli/about/statistics\)](https://ejournal.undip.ac.id/index.php/jkli/about/statistics)
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- [Vol 18, No 2 \(2019\): Oktober 2019 \(https://ejournal.undip.ac.id/index.php/jkli/issue/view/2657\)](https://ejournal.undip.ac.id/index.php/jkli/issue/view/2657)
- [Vol 18, No 1 \(2019\): April 2019 \(https://ejournal.undip.ac.id/index.php/jkli/issue/view/2547\)](https://ejournal.undip.ac.id/index.php/jkli/issue/view/2547)
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Vol 17, No 2 (2018): Oktober 2018

Table of Contents

Research Articles

Efek Insektisidal Ekstrak Etanol Daun Jambu Biji Putih (Psidium Guajava L) terhadap Larva Lalat Rumah (Musca Domestica L)

PDF
<https://ejournal.undip.ac.id/index.php/jkli/article/view/17073/13923>

<https://ejournal.undip.ac.id/index.php/jkli/article/view/17073>

59-62

Siti Nurhayati, Tri Wahyuni Sukesi

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Citations: **0**

[https://badge.dimensions.ai/details/doi/10.14710/jkli.17.2.59-62?](https://badge.dimensions.ai/details/doi/10.14710/jkli.17.2.59-62?domain=https://ejournal.undip.ac.id)
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Received: 29 Dec 2017; Published: 1 Oct 2018.


Perbedaan Efek Paparan Pestisida Kimia dan Organik terhadap Kadar Glutation (GSH) Plasma pada Petani Padi
(<https://ejournal.undip.ac.id/index.php/jkli/article/view/17238>)

PDF

(https://ejournal.undip.ac.id/index.php/jkli/article/view/17238/13924)

63-67

 Ain Yuanita Insani, Ancah Caesarina Novi Marchianti,
Septa Surya Wahyudi


 Views: **1167** (#).|

 Citations { 0

(https://badge.dimensions.ai/details/doi/10.14710/jkli.17.2.63-67?domain=https://ejournal.undip.ac.id)

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(<https://doi.org/10.14710/jkli.17.2.63-67>)


 Received: 15 Jan 2018; Published: 1 Oct 2018.


Analisis Paparan Kadmium, Besi, Dan Mangan Pada Air Terhadap Gangguan Kulit Pada Masyarakat Desa Ibu Besar Kecamatan Indralaya Selatan Kabupaten Ogan Ilir
(<https://ejournal.undip.ac.id/index.php/jkli/article/view/18644>)

PDF

(https://ejournal.undip.ac.id/index.php/jkli/article/view/18644/13925)

68-73

 Elvi Sunarsih, Achmad Fickry Faisya, Yuanita Windusari,
Inoy Trisnaini, Dini Arista, Dwi Septiawati, Yustini Ardila,
Imelda Gernauli Purba, Rahmi Garmini


 Views: **900** (#).|

 Citations { 0

(https://badge.dimensions.ai/details/doi/10.14710/jkli.17.2.68-73?domain=https://ejournal.undip.ac.id)

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(<https://doi.org/10.14710/jkli.17.2.68-73>)


 Received: 23 Apr 2018; Published: 1 Oct 2018.


Pengaruh Iklim Terhadap Peluang Umur Nyamuk Mansonia spp di Daerah Endemis Filariasis di Kabupaten Kapuas
(<https://ejournal.undip.ac.id/index.php/jkli/article/view/17579>)

PDF

(https://ejournal.undip.ac.id/index.php/jkli/article/view/17579/13926)

74-79

 Muhammad Rasyid Ridha, Juhairiyah Juhairiyah, Deni Fakhrizal


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| Language: **EN** (#).| DOI: **10.14710/jkli.17.2.74-79**

(<https://doi.org/10.14710/jkli.17.2.74-79>)


 Received: 9 Feb 2018; Published: 1 Oct 2018.


Faktor-Faktor yang Berhubungan dengan Keluhan Subyektif Dermatitis Kontak Iritan pada Petugas Pengepul Sampah di Wilayah Kota Yogyakarta
(<https://ejournal.undip.ac.id/index.php/jkli/article/view/17970>)

PDF

(https://ejournal.undip.ac.id/index.php/jkli/article/view/17970/13927)

80-86

 Dwi Dewi Ambarsari, Surahma Asti Mulasari


 Views: **1698** (#).|

 Citations { 0

(https://badge.dimensions.ai/details/doi/10.14710/jkli.17.2.80-86?domain=https://ejournal.undip.ac.id)

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(<https://doi.org/10.14710/jkli.17.2.80-86>)


 Received: 11 Mar 2018; Published: 1 Oct 2018.


**Analisis Faktor Risiko Kejadian penyakit Tuberculosis
Bagi Masyarakat Daerah Kumuh Kota Palembang**
(<https://ejournal.undip.ac.id/index.php/jkli/article/view/18026>)

PDF

(<https://ejournal.undip.ac.id/index.php/jkli/article/view/18026/13928>)

87-94

 Iwan Stia Budi, Yustini Ardillah, Indah Purnama Sari,
Dwi Septiawati


 Views: **1723 (#)**

 Citations **0**

([https://badge.dimensions.ai/details/doi/10.14710/jkli.17.2.87-94?](https://badge.dimensions.ai/details/doi/10.14710/jkli.17.2.87-94?domain=https://ejournal.undip.ac.id)
domain=<https://ejournal.undip.ac.id>)

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**Analisis Spasial dan Temporal Persebaran Kasus Baru TB
Paru BTA (+) di Kabupaten Batang**
(<https://ejournal.undip.ac.id/index.php/jkli/article/view/15564>)

PDF

(<https://ejournal.undip.ac.id/index.php/jkli/article/view/15564/13929>)

95-103

 Arum Siwiendrayanti, Dyah Mahendrasari Sukendra, Dwi
Arofah


 Views: **1482 (#)**

 Citations **0**

([https://badge.dimensions.ai/details/doi/10.14710/jkli.17.2.95-103?](https://badge.dimensions.ai/details/doi/10.14710/jkli.17.2.95-103?domain=https://ejournal.undip.ac.id)
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(<https://doi.org/10.14710/jkli.17.2.95-103>)

 Received: 10 Aug 2017; Published: 1 Oct 2018.


**Hubungan Paparan Pestisida dengan Kejadian Goiter
pada Anak Usia Sekolah Dasar di Area Pertanian
Hortikultura Kecamatan Ngablak Kabupaten Magelang**
(<https://ejournal.undip.ac.id/index.php/jkli/article/view/16423>)

PDF

(<https://ejournal.undip.ac.id/index.php/jkli/article/view/16423/13930>)

104-111

 Andriana Marwanto, Onny Setiani, **Suhartono Suhartono**


 Views: **754 (#)**

 Citations **0**

([https://badge.dimensions.ai/details/doi/10.14710/jkli.17.2.104-111?](https://badge.dimensions.ai/details/doi/10.14710/jkli.17.2.104-111?domain=https://ejournal.undip.ac.id)
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**Pengaruh Kebisingan Terhadap Tekanan Darah dan Nadi
pada Pekerja Pabrik Kayu PT. Muroco Jember**
(<https://ejournal.undip.ac.id/index.php/jkli/article/view/17432>)

PDF

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112-118

 Wahyu Ikhwan Nanda Mukhlis, Yohanes Sudarmanto,
Muhammad Hasan


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i-ii

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iv-v



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Hubungan Paparan Pestisida dengan Kejadian Goiter pada Anak Usia Sekolah Dasar di Area Pertanian Hortikultura Kecamatan Ngablak Kabupaten Magelang

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Abstract

Latarbelakang: Intensitas penggunaan pestisida yang berlebihan dan pelaksanaan penyemprotan yang tidak sesuai aturan dapat mengakibatkan masalah kesehatan bagi anak-anak, yang secara langsung maupun tidak langsung terpajan oleh pestisida. Pestisida dapat mengganggu proses sintesis dan metabolisme hormon tiroid dengan mengganggu reseptor TSH (TSH-r) di kelenjar tiroid. Kelenjar tersebut membesar sebagai kompensasi untuk meningkatkan output hormon tiroid. Pembengkakan leher akibat pembesaran kelenjar tiroid disebut goiter. Kelainan kelenjar tiroid pada anak-anak dapat mengakibatkan gangguan tumbuh kembang. Penelitian ini bertujuan untuk mengetahui hubungan riwayat paparan pestisida dengan kejadian goiter pada siswa-siswa SD di wilayah pertanian hortikultura wilayah kerja Puskesmas Ngablak Kecamatan Ngablak Kabupaten Magelang.

Metode: Penelitian ini menggunakan desain Case control (kasus control). Sampel pada penelitian ini adalah 60 siswa kelas 4-6 yang terdiri dari 20 siswa yang mengalami goiter sebagai kasus dan 40 siswa sebagai kontrol. Data diperoleh dari hasil pemeriksaan kadar UEI dalam urine dan wawancara.

Hasil: sebanyak 60 % responden pada kelompok kasus mempunyai riwayat paparan pestisida dan kadar Ekskresi Iodium Urin (EIU) pada anak mempunyai nilai rata-rata (Mean) 176,183 µg/L dengan kisaran 30 µg/L - 291 µg/L, nilai median 182 µg/L. Riwayat paparan pestisida secara signifikan berhubungan dengan kejadian goiter dengan nilai p-value: 0,013 (p<0,05), OR; 5,41 95% CI; 1,53-19,12

Simpulan: Kesimpulan penelitian ini adalah riwayat paparan pestisida dalam hal keterlibatan anak pada kegiatan pertanian merupakan faktor resiko terhadap kejadian goiter.

ABSTRACT

Title: *Exposure Pesticide Associated with Incidence of Goiter in Elementary School Students in the Areas of Agriculture in Sub District Ngablak District Magelang*

Background: *The intensity and excessive use of pesticides and spraying methods which not appropriate may cause health problems to farmers exposed directly as well as children who are indirectly exposed to pesticide. Pesticides can disrupt the synthesis process and thyroid hormone metabolism by disturbing the TSH receptor (TSH-r) in thyroid gland. The gland is enlarged as a compensation to increase thyroid hormone output. swelling of the neck from an enlarged thyroid gland is called Goiter. Thyroid unloyment caused by inhibition of thyroid hormone synthesis may cause growth disorders. The purpose of this study was to determine the exposure pesticide associated to the incidence of Goiter in elementary school students in agriculture areas at the Sub District NgablakMagelang.*

Method: *This study was observational study with case control design. The sample in this study were 60 students of grade 4-6 consisting of 20 students who incidence goiter as the case and 40 students as control. The data Data was taken from UEI examination results in urine and interview.*