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### Abstract

*Flies as mechanical vectors send pathogenic bacteria to food through contaminated body parts. Pathogenic bacteria can spread widely through contaminated body parts of synanthropic flies as well as flight ability. This study aims to describe the distribution of pathogenic bacteria by synanthropic flies in residential areas. This research is a literature review research with a simplified approach. Articles are collected through Google Scholar, Portal Garuda, Scencedirect, Springer Link, Researhgate, and PubMed. Selected articles discuss the distribution of pathogenic bacteria by synanthropic flies in residential areas. Synanthropic fly species identified from the settlement are, Musca domestica, Chrysomya megacephala and Calliphora. Pathogenic bacteria identified from synanthropic flies in settlements are Salmonella typhi,*

*Shigella, Escherichia coli, Campylobacter, Bacillus, Staphylococcus aureus, and Pseudomonas aeruginosa.. Genetically, there are similarities in bacterial isolates from flies and humans. Profiles of antibiotic resistant bacteria in flies in settlements match those from sewage treatment facilities. The presence of animals increases the risk of the spread of pathogenic bacteria by flies. There was no difference in E. coli bacteria in the fly at home and cage.. Genetic analysis of house fly populations and antibiotic resistant bacterial profiles showed the spread of flies between urban and rural areas. Synanthropic flies are able to spread pathogenic bacteria in settlements up to a radius of 2 km from the breeding site.*

**Keywords:** bacterial distribution, synanthropic flies, settlement/residential

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> **Penerapan Solcus Hexa, Alat Pengering Kolektor Surya 6 Sudut Sebagai Optimalisasi Higienitas Mutu Ukm Ikan Asin di Bandarharjo Semarang Utara** (<https://ejournal.undip.ac.id/index.php/jim/article/view/10890>)

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> **Metode Plester Herbal Berbahan Bunga Teratai (Nelumbium Nelumbo Druce) Bagi Penderita Impetigo** (<https://ejournal.undip.ac.id/index.php/jim/article/view/10758>)

> **Pemanfaatan Sansevieria Tanaman Hias Penyerap Polutan Sebagai Upaya Mengurangi Pencemaran Udara Di Kota Semarang** (<https://ejournal.undip.ac.id/index.php/jim/article/view/10863>)

**References** (#tab-references)

**Citing articles** (0) (#tab-citations)

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**Metadata** (#tab-metadata)

1. Sanchez-Arroyo H, Capinera JL. House fly, *Musca domestica* Linnaeus (Insecta: Diptera: Muscidae). Florida;
2. Khamesipour F, Lankarani KB, Honarvar B, Kwenti TE. A systematic review of human pathogens carried by the housefly (*Musca domestica* L.). *BMC Public Health*. 2018;18(1):1049
3. Sulaiman S, Othman MZ, Aziz AH. Isolations of enteric pathogens from synanthropic flies trapped in downtown Kuala Lumpur. *J Vector Ecol*. 2000;25:90–3
4. Vazirianzadeh B, Solary SS, Rahdar M, Hajhossien R, Mehdinejad M. Identification of bacteria which possible transmitted by *Musca domestica* (Diptera: Muscidae) in the region of Ahvaz, SW Iran. *Jundishapur J Microbiol*. 2008;1(1):28–31
5. Kassiri H, Zarrin M, Veys-Behbahani R, Faramarzi S, Kasiri A. Isolation and Identification of Pathogenic Filamentous Fungi and Yeasts From Adult House Fly (Diptera: Muscidae) Captured From the Hospital Environments in Ahvaz City, Southwestern Iran. *J Med Entomol*. 2015;52(6):1351–6
6. Tsagaan A, Kanuka I, Okado K. Study of pathogenic bacteria detected in fly samples using universal primer-multiplex PCR. *Mong J Agric Sci*. 2015;15(2):27–32
7. Farag TH, Faruque AS, Wu Y, Das SK, Hossain A, Ahmed S, et al. Housefly Population Density Correlates with Shigellosis among Children in Mirzapur, Bangladesh: A Time Series Analysis. *PLoS Negl Trop Dis*. 2013;7(6):e2280
8. Sarwar M. insect vectors involving in mechanical transmission of human pathogens for serious diseases. *Int J Bioinforma Biomed Eng*. 2015;1(3):300–6
9. Pava-Ripoll M, Pearson REG, Miller AK, Tall BD, Keys CE, Ziobro GC. Ingested *Salmonella enterica*, *Cronobacter sakazakii*, *Escherichia coli* O157:H7, and *Listeria monocytogenes*: transmission dynamics from adult house flies to their eggs and first filial (F1) generation adults. *BMC Microbiol*. 2015;15(1):150
10. Fisher ML, Fowler FE, Denning SS, Watson DW. Survival of the House Fly (Diptera: Muscidae) on Truvia and Other Sweeteners. *J Med Entomol*. 2017;54(4):999–1005
11. Capinera JL, Crist TO, Heppner JB, Tzanakakis ME, Gayubo SF, Tartar A, et al. House fly, *Musca domestica* L. (Diptera: Muscidae). In: *Encyclopedia of Entomology*. Dordrecht: Springer; 2008. p. 1877–80
12. Nazni W, Luke H, Wan Rozita W, Abdullah A, Sa'diyah I, Azahari A, et al. Determination of the flight range and dispersal of the house fly, *Musca domestica* (L.) using mark release recapture technique. *Trop Biomed*. 2005;22(1):53–61
13. Kjærsgaard A, Blanckenhorn WU, Pertoldi C, Loeschcke V, Kaufmann C, Hald B, et al. Plasticity in behavioural responses and resistance to temperature stress in *Musca domestica*. *Anim Behav*. 2015;99:123–30
14. Ismawati I, Lestari H, Jafriati J. Hubungan Kepadatan Lalat, Jarak Pemukiman Dan Sarana Pembuangan Sampah Dengan Kejadian Diare Pada Pemukiman Sekitar UPTD Rumah Pemotongan Hewan (RPH) Kota Kendari Di Kelurahan Anggoeya Kecamatan Poasia Tahun 2015. *J Ilm Mhs Kesehat Masy Unsyiah*. 2016;1(2):1–9
15. Chakrabarti S, Kambhampati S, Zurek L. Assessment of House Fly Dispersal between Rural and Urban Habitats in Kansas, USA. *J Kansas Entomol Soc*. 2010 Apr;83(2):172–88
16. Ommi D, Hemmatinezhad B, Hafshejani TT, Khamesipour F. Incidence and Antimicrobial Resistance of *Campylobacter* and *Salmonella* from Houseflies (*Musca Domestica*) in Kitchens, Farms, Hospitals and Slaughter Houses. *Proc Natl Acad Sci India Sect B Biol Sci*. 2017 Dec 28;87(4):1285–91
17. Chaiwong T, Srivoramas T, Sueabsamran P, Sukontason K, Sanford MR, Sukontason KL. The blow fly, *Chrysomya megacephala*, and the house fly, *Musca domestica*, as mechanical vectors of

- pathogenic bacteria in Northeast Thailand. *Trop Biomed.* 2014;31(2):336–46
18. Doud CW, Scott HM, Zurek L. Role of House Flies in the Ecology of *Enterococcus faecalis* from Wastewater Treatment Facilities. *Microb Ecol.* 2014 Feb 14;67(2):380–91
  19. Cervelin V, Fongaro G, Pastore JB, Engel F, Reimers MA, Viancelli A. Enterobacteria associated with houseflies (*Musca domestica*) as an infection risk indicator in swine production farms. *Acta Trop.* 2018 Sep;185:13–7
  20. Barreiro C, Albano H, Silva J, Teixeira P. Role of Flies as Vectors of Foodborne Pathogens in Rural Areas. *ISRN Microbiol.* 2013;2013:1–7
  21. Akter S, Sabuj AAM, Haque ZF, Rahman MT, Kafi MA, Saha S. Detection of antibiotic-resistant bacteria and their resistance genes from houseflies. *Vet World.* 2020 Feb 12;13(2):266–74
  22. Schaumburg F, Onwugamba FC, Akulenko R, Peters G, Mellmann A, Köck R, et al. A geospatial analysis of flies and the spread of antimicrobial resistant bacteria. *Int J Med Microbiol.* 2016 Nov;306(7):566–71
  23. Service M. *Medical Entomology for Students : Fifth Edition.* 5th ed. New York: Cambridge University Press; 2012
  24. Masyhuda, Hestningsih R, Rahadian R. Survei kepadatan lalat di Tempat Pembuangan Akhir (TPA) sampah Jatibarang tahun 2017. *J Kesehat Masy.* 2017;5(4):560–9
  25. Mohammed AN, Abdel-Latef GK, Abdel-Azeem NM, El-Dakhly KM. Ecological study on antimicrobial-resistant zoonotic bacteria transmitted by flies in cattle farms. *Parasitol Res.* 2016;115(10):3889–96
  26. Hestningsih R. *Survei Lalat Sinantropik dan Patogen Kontaminan pada Beberapa Tempat Sampah di Yogyakarta.* Universitas Gajah Mada; 2002
  27. Putri YP. Keanekaragaman spesies lalat (Diptera) dan bakteri pada tubuh lalat di tempat pembuangan akhir sampah (TPA) dan pasar. *J Tek Lingkung UNAND.* 2015;12(2):78–89
  28. Ahmed KM, Salih SS, Sulaymaniya H. Isolation and Identification of Bacterial Isolates from House Flies in Sulaymaniya City. *Eng Tech J.* 2013;31(1):24–33
  29. Sasaki T, Kobayashi M, Agui N. Epidemiological Potential of Excretion and Regurgitation by *Musca domestica* (Diptera: Muscidae) in the Dissemination of *Escherichia coli* O157: H7 to Food. *J Med Entomol.* 2009 Oct 29;37(6):945–9
  30. Wasala L, Talley JL, DeSilva U, Fletcher J, Wayadande A. Transfer of *Escherichia coli* O157:H7 to spinach by house flies, *Musca domestica* (Diptera: Muscidae). *Phytopathology.* 2013 Apr;103(4):373–80
  31. Rozendaal JA. Houseflies: carriers of diarrhoeal diseases and skin and eye infections. In: *Vector control: Methods for use by individuals and communities.* 1997. p. 302–23
  32. Ahmad A, Ghosh A, Schal C, Zurek L. Insects in confined swine operations carry a large antibiotic resistant and potentially virulent enterococcal community. *BMC Microbiol.* 2011;11(1):23
  33. Safitri V, Hastutiek P, Arimbi. Identifikasi Bakteri pada Eksoskeleton Lalat di Beberapa Pasar di Surabaya Identification. *J Parasite Sci.* 2017;1(1):1–6
  34. Schou TM, Faurby S, Kjærsgaard A, Pertoldi C, Loeschcke V, Hald B, et al. Temperature and population density effects on locomotor activity of *Musca domestica* (Diptera: Muscidae). *Environ Entomol.* 2013;42(6):1322–8
  35. Zahn LK. Flight Behavior of the House Fly (*Musca domestica*) Under Field Conditions in Southern California [Internet]. University of California; 2019. Available from: <https://escholarship.org/uc/item/2wf8h6bf> (<https://escholarship.org/uc/item/2wf8h6bf>)

36. Ngoen-Klan R, Moophayak K, Klong-Klaew T, Irvine KN, Sukontason KL, Prangkio C, et al. Do climatic and physical factors affect populations of the blow fly *Chrysomya megacephala* and house fly *Musca domestica*? *Parasitol Res.* 2011;109(5):1279–92
37. Godwin RM, Mayer DG, Brown GW, Leemon DM, James PJ. Predicting nuisance fly outbreaks on cattle feedlots in subtropical Australia. *Anim Prod Sci.* 2018;58(2):343–9
38. Parker RR. Dispersion of *Musca domestica* Linnæus under city conditions in Montana. *J Econ Entomol.* 1916;9(3):325–54
39. Chandra B. *Pengantar Kesehatan Lingkungan*. Jakarta: EGC; 2007. 223 p
40. Patamani HH. *Perbedaan Efektifitas Penggunaan Repellent Nabati ( Kulit Jeruk ) Dan Kantong Plastik Berisi Air Sebagai*. Universitas Negeri Gorontalo; 2014
41. Toyama GM. A Preliminary Survey of Fly Breeding at Sanitary Landfills in Hawaii with an Evaluation of Landfill Practices and their Effect on Fly Breeding. *Hawaiian Entomol Soc.* 1988;28:49–56

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# Vol 10, No 3 (2020): Jurnal Ilmiah Mahasiswa

## Table of Contents

### Articles

**Keluhan Subyektif Gangguan Pernafasan Pada Pekerja di Area Stockpile Batubara Jambi**  
(<https://ejournal.undip.ac.id/index.php/jim/article/view/33600>)

Ana Fauziah, Budiyo Budiyo, Mursid Raharjo

Views: **109 (#)** | Language: **ID (#)**

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[PDF](https://ejournal.undip.ac.id/index.php/jim/article/view/33600/pdf)  
(<https://ejournal.undip.ac.id/index.php/jim/article/view/33600/pdf>)

61-69

**Gambaran Program Puskesmas Tanpa Antrian Kota Semarang (Pustaka) Sebagai Layanan Pendaftaran Online**  
(<https://ejournal.undip.ac.id/index.php/jim/article/view/31868>)

Kasih Yuliani, Septo Pawelas Arso, Nurhasmadiar Nandini

Views: **86 (#)** | Language: **ID (#)**

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[PDF](https://ejournal.undip.ac.id/index.php/jim/article/view/31868/pdf)  
(<https://ejournal.undip.ac.id/index.php/jim/article/view/31868/pdf>)

70-75

**Review: Distribusi Bakteri Patogen oleh Lalat Sinantropik di Daerah Perumahan**  
(<https://ejournal.undip.ac.id/index.php/jim/article/view/33601>)

Condro Sukmo Pranajaya, Praba Ginandjar, Retno Hestingsing, Sri Yuliawati

Views: **84 (#)** | Language: **ID (#)**

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(<https://ejournal.undip.ac.id/index.php/jim/article/view/33601/18075>)

73-75

**Pemanfaatan Pelayanan Kesehatan Usia Lanjut : Studi Cross Sectional di Wilayah Kerja Puskesmas Kota Semarang**  
(<https://ejournal.undip.ac.id/index.php/jim/article/view/31783>)

Arum Prihatiningsih, Ayun Sariatmi, Eka Yunila Fatmasari

Views: **54 (#)** | Language: **ID (#)**

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[PDF](https://ejournal.undip.ac.id/index.php/jim/article/view/31783/pdf)  
(<https://ejournal.undip.ac.id/index.php/jim/article/view/31783/pdf>)


78-83


**Aspek-Aspek Dimensi Waktu Tunggu Yang Mempengaruhi Kepuasan Pasien BPJS Rawat Jalan di Poliklinik Mata RSU William Booth Semarang**  
(<https://ejournal.undip.ac.id/index.php/jim/article/view/31786>)

**PDF**  
(<https://ejournal.undip.ac.id/index.php/jim/article/view/31786/pdf>)

84-86

 Rachel Ivonieta Insani, Ayun Sriatmi, Eka Yunila  
Fatmasari

 Views: **75** (#) | Language: **ID** (#)


 Received: 23 Jul 2020; Published: 28 Jul 2020.


**Analisis Kualitas Lingkungan dalam Mendukung Proper (Study Kasus di Rskj Soeprapto Provinsi Bengkulu)**  
(<https://ejournal.undip.ac.id/index.php/jim/article/view/33602>)

**PDF**  
(<https://ejournal.undip.ac.id/index.php/jim/article/view/33602/18076>)

87-90

 Clara Fitri, Mursid Raharjo, Onny Setiani

 Views: **313** (#) | Language: **ID** (#)

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