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Tropical Medicine and Infectious Disease

Open Access

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Tropical Medicine and Infectious Disease

COUNTRY

Switzerland

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SUBJECT AREA AND CATEGORY

Immunology and Microbiology
- Immunology and Microbiology (miscellaneous)

Medicine
- Infectious Diseases
- Public Health, Environmental and Occupational Health

PUBLISHER

MDPI AG

H-INDEX

24

PUBLICATION TYPE

Journals

ISSN

24146366

COVERAGE

2016-2021

INFORMATION

Homepage

How to publish in this journal

peter.leggat@jcu.edu.au

SCOPE

Tropical Medicine and Infectious Disease publishes on all tropical diseases of global significance, as well as neglected tropical diseases as defined from time-to-time by the World Health Organization. The scope of the journal includes, but is not limited to: Clinical tropical medicine; Tropical public health; Tropical infectious diseases; Parasitology and entomology; Bacteriology, mycology and virology; Epidemiological and social science studies; Chemotherapy and pharmacology; Immunology; Disease prevention, control and elimination; Emerging and re-emerging infectious diseases; Emerging public health threats; Global health and One Health.

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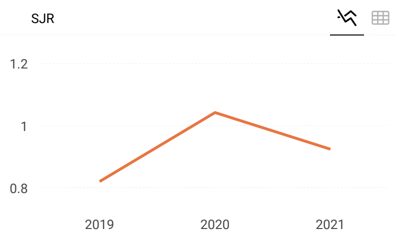

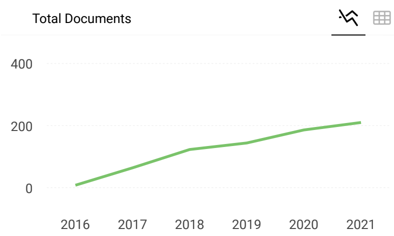

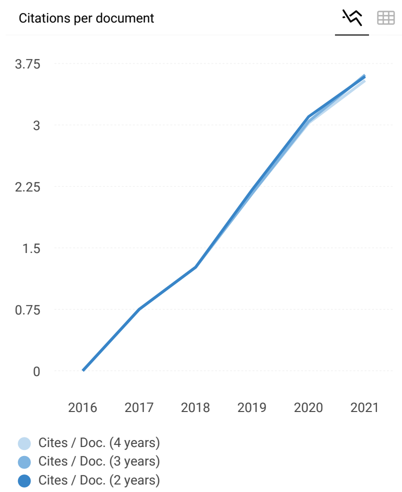

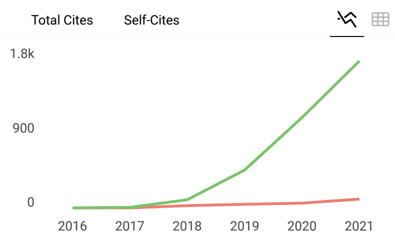

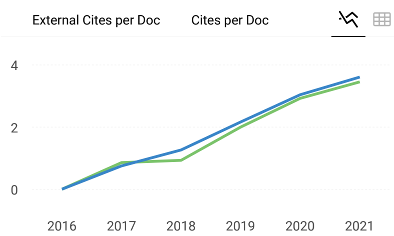

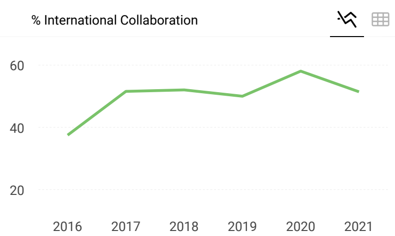

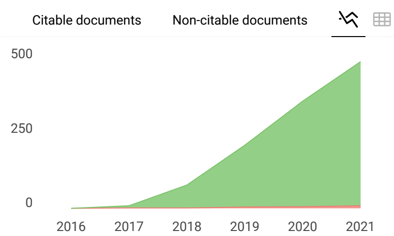

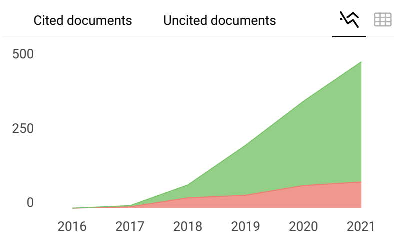

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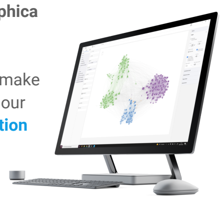

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H **Huseyin Elci** 2 months ago

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reply

SCImago Team

Melanie Ortiz 2 months ago

Dear Huseyin,
Thank you very much for your comment.
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Best Regards, SCImago Team

S **Silvia Jaqueline Souza** 8 months ago

Tropical Medicine and Infectious Disease (/journal/tropicalmed)

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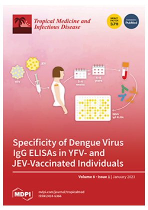

Cover Story (**view full-size image (/files/uploaded/covers/tropicalmed/big_cover-tropicalmed-v8-i1.png)**): Dengue virus antibody assays frequently cross-react with sera from individuals that were infected with or vaccinated against related flaviviruses. This makes it challenging to monitor the prevalence of dengue virus infections in regions where several flaviviruses co-circulate. The study examined the diagnostic specificity of two dengue virus ELISAs with sera obtained 3-4 weeks or 0.5-6 years after yellow fever virus (YFV) and Japanese encephalitis virus (JEV) vaccination. Sera were from individuals living in a non-endemic area and dengue virus neutralization was used as control for probable dengue virus infection. The two assays showed varying degrees of cross-reactivity. The specificity of one of the assays may be suitable for seroprevalence studies in areas with a high prevalence of dengue virus infections. **View this paper (https://www.mdpi.com/2414-6366/8/1/7)**

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Impact of the COVID-19 Pandemic on Malaria Control in Africa: A Preliminary Analysis (/2414-6366/8/1/67)

by Liping Gao (https://sciprofiles.com/profile/2604288), Qi Shi (https://sciprofiles.com/profile/1274767), Zhiguo Liu (https://sciprofiles.com/profile/1356842), Zhenjun Li (https://sciprofiles.com/profile/853508) and Xiaoping Dong (https://sciprofiles.com/profile/684480)

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Abstract Malaria remains a significant public health concern in Africa, and the emerging coronavirus disease 2019 (COVID-19) pandemic may have negatively impacted malaria control. Here, we conducted a descriptive epidemiological analysis of malaria globally, and preliminarily explored the impact of COVID-19 on the malaria [...] Read more.

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Efficacy Assessment of Autodissemination Using Pyriproxyfen-Treated Ovitraps in the Reduction of Dengue Incidence in Parañaque City, Philippines: A Spatial Analysis (/2414-6366/8/1/66)

by Antonio D. Ligsay (https://sciprofiles.com/profile/1835554), Zypher Jude G. Regencia (https://sciprofiles.com/profile/1834240), Kristan Jela M. Tambio (https://sciprofiles.com/profile/author/M3djV3JTUklTQXQxeWJJL1NJMjNuKzhGdXpVeFUyYVRsV3pQQ2JGUG15bz0=), Michelle Joyce M. Aytona (https://sciprofiles.com/profile/2109812), Alain Jason A. Generale (https://sciprofiles.com/profile/author/OFptTjlla3N6bWpQQytCTW9aSjVXTVcxeHVUM2MyTmdKaDd0dCtQckROUT0=), Grecebio Jonathan D. Alejandro (https://sciprofiles.com/profile/1908317), Jacquiline S. Tychuaco (https://sciprofiles.com/profile/author/bHRnK1ZQNzl2Rk92aklBaUxYOWd2S2Joa1BkWEx1aWtvcXljbkJPQkZyQT0=), Lilian A. De las Llagas (https://sciprofiles.com/profile/author/Q2NvY3ltZ2k3YTR3QTdKeXhicEo4Ny93RE1wb24rMG9SYjJOajBoaGtwWT0=), Emmanuel S. Baja (https://sciprofiles.com/profile/877022) and Richard Edward L. Paul (https://sciprofiles.com/profile/933347)

Trop. Med. Infect. Dis. **2023**, *8*(1), 66; https://doi.org/10.3390/tropicalmed8010066 (https://doi.org/10.3390/tropicalmed8010066) - 16 Jan 2023

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Abstract Dengue is one of the most important vector-borne diseases worldwide and is a significant public health problem in the tropics. Mosquito control continues to be the primary approach to reducing the disease burden and spread of dengue virus (DENV). Aside from the traditional [...] Read more.

(This article belongs to the Special Issue Spatial Epidemiology of Infectious Diseases (/journal/tropicalmed/special_issues/spatial_epidemiology_infectious_diseases))

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The Risk of Emerging of Dengue Fever in Romania, in the Context of Global Warming (/2414-6366/8/1/65)

by Larisa Maria Ivanescu (https://sciprofiles.com/profile/2868513), Ilie Bodale (https://sciprofiles.com/profile/900303), Smaranda Grigore-Hristodorescu (https://sciprofiles.com/profile/author/b2RRZGpuNHhRaGlodTN5eGNNdlRsa1loNXBBWWl1UHhzNDhLME5JQW9ROXMzTlRaMitzVm5MT3g5eTRpOXE, Gabriela Martinescu (https://sciprofiles.com/profile/1771277), Bianca Andronic (https://sciprofiles.com/profile/2680016), Simona Matiut (https://sciprofiles.com/profile/author/a1V5eEw1OXJLUGtlRmV6QkNzMDkwUVVkaFVaUHp1aFl5UkdnYkMrVThiNXlxTU1kV0M5R3AyeVlRUC9Xb1lwRw==), Doina Azoicai (https://sciprofiles.com/profile/author/YlR2K2lCcWhUNjdMT0plRWdwL1lHaEdNSUxQbzhHUTFjR00ydjVyNHlQRT0=) and Liviu Miron (https://sciprofiles.com/profile/2552159)

Trop. Med. Infect. Dis. **2023**, *8*(1), 65; https://doi.org/10.3390/tropicalmed8010065 (https://doi.org/10.3390/tropicalmed8010065) - 15 Jan 2023

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Abstract (1) Background: Few studies to date have assessed the influences induced by climate change on the spatial distribution and population abundance of *Aedes albopictus* using the latest climate scenarios. In this study, we updated the current distribution of *Ae. albopictus* mosquitoes and evaluated [...] Read more.

(This article belongs to the Section Neglected and Emerging Tropical Diseases (/journal/tropicalmed/sections/Neglected_Emerging_Tropical_Disease))

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[Chagas Disease: Seroprevalence and Associated Factors in Indigenous Communities of the Southern Limit of Argentine Chaco (/2414-6366/8/1/64)]

by Carlina Colussi (https://sciprofiles.com/profile/2678689),
Marcelo Nepote (https://sciprofiles.com/profile/author/WWRML0o5UEFuVkxjU0FYSklyVTdwOENPbXlBOXRqVk56TjlMbmREU1RkVT0=),
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Diego Mendicino (https://sciprofiles.com/profile/author/SExRWlZSQmg5MGpmZVZVVFBndHpMTGJZMHBiczBWeXZFZUhsQTZCcXNpdz0=)
Trop. Med. Infect. Dis. **2023**, *8*(1), 64; https://doi.org/10.3390/tropicalmed8010064 (https://doi.org/10.3390/tropicalmed8010064) - 14 Jan 2023

Abstract Chagas disease is more prevalent in socially vulnerable communities in the Gran Chaco Eco-region. The study evaluated the seroprevalence of Chagas disease and associated factors between May 2014 and September 2015, in indigenous communities of Santa Fe, Argentina, in the southern Chaco. Lysate [...] Read more.
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[Toxoplasmosis: A Timeless Challenge for Pregnancy (/2414-6366/8/1/63)]

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Trop. Med. Infect. Dis. **2023**, *8*(1), 63; https://doi.org/10.3390/tropicalmed8010063 (https://doi.org/10.3390/tropicalmed8010063) - 13 Jan 2023

Abstract This study aimed to evaluate the prevalence of toxoplasmosis in pregnant women, as well as the general characteristics, clinical and laboratory findings, and pregnancy and fetal outcomes of pregnant women diagnosed with acute toxoplasma infection (ATI). The toxoplasma IgM, IgG, and IgG avidity [...] Read more.
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[High Prevalence of Sexually Transmitted and Reproductive Tract Infections (STI/RTIs) among Patients Attending STI/Outpatient Department Clinics in Tanzania (/2414-6366/8/1/62)]

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Simon N. Buhalata (https://sciprofiles.com/profile/author/SGdBT0RHVTdDMGRnZE5seEZCdFJOR1QvT2N2MWhDdENnVUt4MUxaUC92Zz0=),
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John M. Changalucha (https://sciprofiles.com/profile/author/RkwwekxURGdvcmNjYStwTUhzL3BnK2orRFZBYnZpRTVNS3JhMHdOOGlCMD0=)
Trop. Med. Infect. Dis. **2023**, *8*(1), 62; https://doi.org/10.3390/tropicalmed8010062 (https://doi.org/10.3390/tropicalmed8010062) - 13 Jan 2023

Abstract We determined the prevalence and reported risk factors associated with sexually transmitted and reproductive tract infections (STI/RTIs) among patients who presented with genital symptoms in STI/outpatient department (OPD) clinics in two regional referral hospitals and six health centres in six regions in Tanzania. [...] Read more.

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[Distinguishing SARS-CoV-2 Infection and Non-SARS-CoV-2 Viral Infections in Adult Patients through Clinical Score Tools (/2414-6366/8/1/61)]

by Rujipas Sirijatuphat (https://sciprofiles.com/profile/2406458),
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Nasikarn Angkasekwinai (https://sciprofiles.com/profile/2238928)
Trop. Med. Infect. Dis. **2023**, *8*(1), 61; https://doi.org/10.3390/tropicalmed8010061 (https://doi.org/10.3390/tropicalmed8010061) - 12 Jan 2023

Abstract This study aimed to determine distinguishing predictors and develop a clinical score to differentiate COVID-19 and common viral infections (influenza, respiratory syncytial virus (RSV), dengue, chikungunya (CKV), and zika (ZKV)). This retrospective study enrolled 549 adults (100 COVID-19, 100 dengue, 100 influenza, 100 [...] Read more.
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[*Trichomonas tenax*: A Neglected Protozoan Infection in the Oral Cavities of Humans and Dogs—A Scoping Review (/2414-6366/8/1/60)]

by Maurice A. Matthew (https://sciprofiles.com/profile/author/RW5wUWJ2Vnlyckh4NGRDaEZ1dlNGa1Z4Wm5QQnpBaVE2cTRQOG9BWG9mWT0=),
Nawu Yang (https://sciprofiles.com/profile/author/ckk5TFo1RVlLNHQ5M2xtdVl5cklNHK2MzM2hoYzh6R0g2b0ZJL0UzK2o3Yz0=),
Jennifer Ketzis (https://sciprofiles.com/profile/369303), Samson Mukaratirwa (https://sciprofiles.com/profile/1305273) and
Chaoqun Yao (https://sciprofiles.com/profile/1185075)
Trop. Med. Infect. Dis. **2023**, *8*(1), 60; https://doi.org/10.3390/tropicalmed8010060 (https://doi.org/10.3390/tropicalmed8010060) - 12 Jan 2023

Abstract *Trichomonas tenax* is a flagellated protozoan parasite found in the oral cavities of humans and animals and has been associated with periodontal disease, the most prevalent inflammatory disease affecting them all. Studies have shown that *T. tenax* can cause damage to mammalian cells [...] Read more.
(This article belongs to the Special Issue **Emerging Insights in Pathogenesis of Infectious Protozoa and Algae (/journal/tropicalmed/special_issues/67W81JX4N0)**)

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Open Access Editor's Choice Article (/2414-6366/8/1/59/pdf?version=1673513364)

[Exploring Evolutionary Relationships within Neodermata Using Putative Orthologous Groups of Proteins, with Emphasis on Peptidases (/2414-6366/8/1/59)]

by Víctor Caña-Bozada (https://sciprofiles.com/profile/2497627), Mark W. Robinson (https://sciprofiles.com/profile/1255048),
David I. Hernández-Mena (https://sciprofiles.com/profile/2436228) and Francisco N. Morales-Serna (https://sciprofiles.com/profile/2497386)
Trop. Med. Infect. Dis. **2023**, *8*(1), 59; https://doi.org/10.3390/tropicalmed8010059 (https://doi.org/10.3390/tropicalmed8010059) - 12 Jan 2023

Abstract The phylogenetic relationships within Neodermata were examined based on putative orthologous groups of proteins (OGPs) from 11 species of Monogenea, Trematoda, and Cestoda. The dataset included OGPs from BUSCO and OMA. Additionally, peptidases were identified and evaluated as phylogenetic markers. Phylogenies were inferred [...] Read more.

(This article belongs to the Special Issue Feature Papers in Neglected and Emerging Tropical Disease (/journal/tropicalmed/special_issues/NETD_FP))

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In Vitro and In Vivo Virulence Study of *Listeria monocytogenes* Isolated from the Andalusian Outbreak in 2019 (/2414-6366/8/1/58)

by Andrea Vila Domínguez (https://sciprofiles.com/profile/952708), Marta Carretero Ledesma (https://sciprofiles.com/profile/author/VUhyNmsxcTN1ZUZKQnBGYVBoS3owMlA0ZDJ6eUFsNXRPSlBQY2lsYlpiRT0=), Carmen Infante Domínguez (https://sciprofiles.com/profile/author/ZXl5czB1VGN3aUlPOHZFYUlkWXl1dz09), José Miguel Cisneros (https://sciprofiles.com/profile/author/N1B3NTJNSlplNFJaeHdqN1g2VXVPb1RzMEZEN01iMnBLaEpYTU5rclNCNURNdFE4ZXlqbVRySDZSdm1WWjVPVg==), Jose A. Lepe (https://sciprofiles.com/profile/2531998) and Younes Smani (https://sciprofiles.com/profile/author/bDRyNmNMbExNbytRdXlKR1NhMkdTQT09)

Trop. Med. Infect. Dis. **2023**, *8*(1), 58; https://doi.org/10.3390/tropicalmed8010058 (https://doi.org/10.3390/tropicalmed8010058) - 12 Jan 2023

Abstract In 2019, the biggest listeriosis outbreak by *Listeria monocytogenes* (Lm) in the South of Spain was reported, resulting in the death of three patients from 207 confirmed cases. One strain, belonging to clonal complex 388 (Lm CC388), has been isolated. We aimed to [...] Read more.

(This article belongs to the Special Issue Current Aspects of Listeriosis (/journal/tropicalmed/special_issues/R458SX3CUJ))

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Assessment of the Function of Respiratory Muscles in Patients after COVID-19 Infection and Respiratory Rehabilitation (/2414-6366/8/1/57)

by Anna Romaszko-Wojtowicz (https://sciprofiles.com/profile/1292749), Michał Szalecki (https://sciprofiles.com/profile/author/VHpOWit5M2MwNUpLTHhmM1hCNlQzaTl6YUhsZXh4WmpyN3NxZEpkUnZkbz0=), Karolina Olech (https://sciprofiles.com/profile/author/SmVsZHQ5Mk9LOUtYVzB2OEFVUzBKMFFQdEFxNGI1ZlJWK281ZWRLZmxqWT0=) and Anna Doboszyńska (https://sciprofiles.com/profile/author/dFZQdEN3VXRsUFJ1dytmV1E3MWthVnNaTzlkZjlRWEdPU005M29xV2VpST0=)

Trop. Med. Infect. Dis. **2023**, *8*(1), 57; https://doi.org/10.3390/tropicalmed8010057 (https://doi.org/10.3390/tropicalmed8010057) - 12 Jan 2023

Abstract Objectives: The MIP (maximum inspiratory pressure) and MEP (maximum expiratory pressure) are sensitive indicators of respiratory muscle function. The aim of the study was to assess the function of respiratory muscles in patients after COVID-19 infection, before and after hospitalisation at the Pulmonary [...] Read more.

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The Impact of Geographical Variation in *Plasmodium knowlesi* Apical Membrane Protein 1 (PkAMA-1) on Invasion Dynamics of *P. knowlesi* (/2414-6366/8/1/56)

by Yee Ling Ng (https://sciprofiles.com/profile/2492096), Wenn-Chyau Lee (https://sciprofiles.com/profile/2494415), Yee-Ling Lau (https://sciprofiles.com/profile/2795126) and Mun Yik Fong (https://sciprofiles.com/profile/1381417)

Trop. Med. Infect. Dis. **2023**, *8*(1), 56; https://doi.org/10.3390/tropicalmed8010056 (https://doi.org/10.3390/tropicalmed8010056) - 10 Jan 2023

Abstract *Plasmodium knowlesi* has emerged as an important zoonotic parasite that causes persistent symptomatic malaria in humans. The signs and symptoms of malaria are attributed to the blood stages of the parasites, which start from the invasion of erythrocytes by the blood stage merozoites. [...] Read more.

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Nanobody-Based Blocking of Binding ELISA for the Detection of Anti-NS1 Zika-Virus-Specific Antibodies in Convalescent Patients (/2414-6366/8/1/55)

by Triana Delfin-Riela (https://sciprofiles.com/profile/1360725), Martín A. Rossotti (https://sciprofiles.com/profile/591533), Giada Mattiuzzo (https://sciprofiles.com/profile/775628), César Echaides (https://sciprofiles.com/profile/author/bFp2SGVtMkNSS3hQNnF1MFozOTFYVnozdEZJNjFVMVVxUXplSVFrcTQwMD0=) and Gualberto González-Sapienza (https://sciprofiles.com/profile/1317306)

Trop. Med. Infect. Dis. **2023**, *8*(1), 55; https://doi.org/10.3390/tropicalmed8010055 (https://doi.org/10.3390/tropicalmed8010055) - 10 Jan 2023

Abstract Zika virus has spread around the world with rapid pace in the last five years. Although symptoms are typically mild and unspecific, Zika's major impact occurs during pregnancy, generating a congenital syndrome. Serology plays a key role in its diagnosis. However, its use [...] Read more.

(This article belongs to the Special Issue Aedini Mosquitoes Borne Disease Outbreaks (/journal/tropicalmed/special_issues/Aedini_Mosquitoes_Borne_Disease))

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[Feline Susceptibility to Leptospirosis and Presence of Immunosuppressive Co-Morbidities: First European Report of *L. interrogans* Serogroup Australis Sequence Type 24 in a Cat and Survey of *Leptospira* Exposure in Outdoor Cats (/2414-6366/8/1/54)]

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by Elisa Mazzotta (https://sciprofiles.com/profile/1479551), Gabrita De Zan (https://sciprofiles.com/profile/1759248), Monia Cocchi (https://sciprofiles.com/profile/1754693), Maria Beatrice Boniotti (https://sciprofiles.com/profile/904181), Cristina Bertasio (https://sciprofiles.com/profile/1038966), Tommaso Furlanello (https://sciprofiles.com/profile/649508), Laura Lucchese (https://sciprofiles.com/profile/1126428), Letizia Ceglie (https://sciprofiles.com/profile/1126466), Laura Bellinati (https://sciprofiles.com/profile/1505915) and Alda Natale (https://sciprofiles.com/profile/326623)

Trop. Med. Infect. Dis. **2023**, *8*(1), 54; https://doi.org/10.3390/tropicalmed8010054 (https://doi.org/10.3390/tropicalmed8010054) - 10 Jan 2023

Abstract Leptospirosis is one of the most widespread zoonotic diseases and can infect both humans and animals worldwide. The role of the cat as a susceptible host and potential environmental reservoir of *Leptospira* is still not well understood, due to the lack of obvious **[...] Read more.**

(This article belongs to the Special Issue **New Insights in Leptospirosis (/journal/tropicalmed/special_issues/Leptospirosis)**)

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[A Fatal Case of Native Valve Endocarditis with Multiple Embolic Phenomena and Invasive Methicillin-Resistant *Staphylococcus aureus* Bacteremia: A Case Report from the Maldives (/2414-6366/8/1/53)]

by Ali Shafeeq (https://sciprofiles.com/profile/author/T2phYVplT1NWTU1CTGMycXZDUDFBUXhqRlhTRi9GN0xSdjd0d2pJMlFOUT0=), Hisham Ahmed Imad (https://sciprofiles.com/profile/419491), Ahmed Azhad (https://sciprofiles.com/profile/2659220), Migdhaadh Shareef (https://sciprofiles.com/profile/author/cEhqS1NTTkRkZHVVN2RleE16UXBZakljY3d3Sms0VGc1ZzBESnZ3OEZGND0=), Mohamed Shaneez Najmy (https://sciprofiles.com/profile/author/M3B6eFlOWGMyS3lwYVJVa2FTWUQyd2tTYXM3Z0NPVGRldWVUNkgrcmVlbW13VVEyNE1LVWxTNVN3UzM3cUVNMQ==
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Trop. Med. Infect. Dis. **2023**, *8*(1), 53; https://doi.org/10.3390/tropicalmed8010053 (https://doi.org/10.3390/tropicalmed8010053) - 10 Jan 2023

Abstract Infective endocarditis (IE) is a life-threatening condition caused by infection within the endocardium of the heart and commonly involves the valves. The subsequent cascading inflammation leads to the appearance of a highly friable thrombus that is large enough to become lodged within the **[...] Read more.**

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[Meaningful Engagement of Persons Affected by Leprosy in Research: An Exploration of Its Interpretation, Barriers, and Opportunities (/2414-6366/8/1/52)]

by Laura de Groot (https://sciprofiles.com/profile/2600625), Anna T. van 't Noordende (https://sciprofiles.com/profile/2691995), Mathias Duck (https://sciprofiles.com/profile/author/QXBlZkFLeUlIYk5Db3N6Z2NlRE90UE8rNGxkM0JUWUo1aW9zWk5zS1F5Yz0=), Joshua Oraga (https://sciprofiles.com/profile/2708511), Sarju Sing Rai (https://sciprofiles.com/profile/1215293), Ruth M. H. Peters (https://sciprofiles.com/profile/author/azlxT0pieXl0ZWNJUHMwMTQyU3Nab0FVRmFsbHlZcXZaZDkyYlBCditGRT0=) and Nienke Veldhuijzen (https://sciprofiles.com/profile/2346105)

Trop. Med. Infect. Dis. **2023**, *8*(1), 52; https://doi.org/10.3390/tropicalmed8010052 (https://doi.org/10.3390/tropicalmed8010052) - 10 Jan 2023

Abstract Despite the growing interest in public and patient involvement in research, best practices in the leprosy context have yet to be explored. This mixed-method study aimed to explore the interpretation, barriers and opportunities of meaningful engagement of persons affected by leprosy in research **[...] Read more.**

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[Immunoprofiling of Equine Plasma against *Deinagkistrodon acutus* in Taiwan: Key to Understanding Differential Neutralization Potency in Immunized Horses (/2414-6366/8/1/51)]

by Cho-Ju Wu (https://sciprofiles.com/profile/2560156), Geng-Wang Liaw (https://sciprofiles.com/profile/1704486), Chun-Kuei Chen (https://sciprofiles.com/profile/author/Y0RicUlXODVCalUvRzMzZHRmMEpDT1pwbmZUWnJEcjB2VVhBL3BxWXhLST0=), Chun-Hsiang Ouyang (https://sciprofiles.com/profile/2140541), Yi-Xiu Yang (https://sciprofiles.com/profile/author/S2FyelpDN1dxNEw2S2hNQ1ZHdGZrRm5SblUyRWRNcDBQOUE4ckNpZjVEMD0=), Li-Chieh Chu (https://sciprofiles.com/profile/1754155), Yung-Chin Hsiao (https://sciprofiles.com/profile/1440329), Chien-Hsin Liu (https://sciprofiles.com/profile/author/OVVnR3h5NE9Jc1l0NDhDQXR1V1QrMjV1Zi8xbkMxVHBwT25qQm5wRW1waz0=), Wen-Chin Hsieh (https://sciprofiles.com/profile/author/YjhyTGR1a24vT0p6Yk1WdUw2WXp3RWxVR0pBdVdTdjErdktLRVhFS2hoaz0=), Cyong-Yi Wang (https://sciprofiles.com/profile/1483323), Yu-Syuan Liou (https://sciprofiles.com/profile/author/K0E5ai9RVTc0cmJmcDFRL2Z4c3VsRU1KSnNpY2dzNHZYREFmM1ZsU1RaND0=), Chien-Chun Liu (https://sciprofiles.com/profile/1482306) and Cheng-Hsien Hsieh (https://sciprofiles.com/profile/1666748)

Trop. Med. Infect. Dis. **2023**, *8*(1), 51; https://doi.org/10.3390/tropicalmed8010051 (https://doi.org/10.3390/tropicalmed8010051) - 09 Jan 2023

Abstract Snakebite envenoming is a public health issue linked to high mortality and morbidity rates worldwide. Although antivenom has been the mainstay treatment for envenomed victims receiving medical care, the diverse therapeutic efficacy of the produced antivenom is a major limitation. *Deinagkistrodon acutus* is **[...] Read more.**

(This article belongs to the Special Issue **Treatment Strategies for Toxicity Caused by Venomous Animals (/journal/tropicalmed/special_issues/19G2FU33Z9)**)

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Open Access Editor's Choice Article (/2414-6366/8/1/50/pdf?version=1673252375)

Clinical Features of Nontuberculous Mycobacterial Pulmonary Disease in the Yangtze River Delta of China: A Single-Center, Retrospective, Observational Study (/2414-6366/8/1/50)

by Hai Lou (https://sciprofiles.com/profile/author/QXh5dE1sMmRndVJjNUFxcWUzYUdGNGd3ZVB4elNOcDhJL2lIV2lLVFJQMD0=), Ansheng Zou (https://sciprofiles.com/profile/author/a1plc28xU0g2RW8rdUJVSGhFUVUyMllCakE2Znl4Rk5NSEJyUFpHVGVzYz0=), Xiaona Shen (https://sciprofiles.com/profile/author/VzR2dDVkRDNXOUZRa1pJUlhWU001a3pOT1UyWUtlWlZ2NkxtVXNBNDNXVT0=), Yong Fang (https://sciprofiles.com/profile/author/dVMvWlVJaGtUSjJYdFVKd29vT0RvNkhMbGdwbkFSR083ZDB0czFhRk1oOD0=), Qin Sun (https://sciprofiles.com/profile/696464), Fen Zhang (https://sciprofiles.com/profile/2531608) and Wei Sha (https://sciprofiles.com/profile/author/NTRBODNnRGpHaGRqaHZNK21SZ0tiSXdlUm80NFNmNzd4WHZUcGJpajRBZz0=)

Trop. Med. Infect. Dis. **2023**, *8*(1), 50; https://doi.org/10.3390/tropicalmed8010050 (https://doi.org/10.3390/tropicalmed8010050) - 09 Jan 2023

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Abstract With increased focus on nontuberculous mycobacterial pulmonary disease (NTM-PD), and the improvement in detection methods, the global incidence continues to increase every year, but the diagnosis and treatment are difficult with a high misdiagnosis rate and poor curative effect. This study aimed to [...] Read more.

(This article belongs to the Special Issue The Epidemiology, Diagnosis and Treatment of Mycobacteria Infection (including TB and NTM) (/journal/tropicalmed/special_issues/VP851O30WK))

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Open Access Review (/2414-6366/8/1/49/pdf?version=1673087063)

Post-Artesunate Delayed Hemolysis: A Review of Current Evidence (/2414-6366/8/1/49)

by Sawettachai Jaita (https://sciprofiles.com/profile/2695929), Krit Madsalae (https://sciprofiles.com/profile/2311466), Sakarn Charoensakulchai (https://sciprofiles.com/profile/2713235), Borimas Hanboonkunapakarn (https://sciprofiles.com/profile/1984697), Kesinee Chotivanit (https://sciprofiles.com/profile/2191387), Anne E. McCarthy (https://sciprofiles.com/profile/author/VytydFVJalZkTHlyTHBLa3dZNkRtL3lMMlJzNm9aRkhlUEd0cXJDeUR1cz0=) and Wasin Matsee (https://sciprofiles.com/profile/1342839)

Trop. Med. Infect. Dis. **2023**, *8*(1), 49; https://doi.org/10.3390/tropicalmed8010049 (https://doi.org/10.3390/tropicalmed8010049) - 07 Jan 2023

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Abstract Artesunate is the drug of choice for treating patients with severe malaria. Post-artesunate delayed hemolysis (PADH) is an uncommon adverse event from malaria treatment. Most patients with PADH are non-immune travelers. The pathophysiology of PADH is not fully understood, but the most likely [...] Read more.

(This article belongs to the Special Issue Advances in Malaria Treatment and Prevention (/journal/tropicalmed/special_issues/Malaria_Treatment_Prevention))

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Soil-Transmitted Helminth Infections among Antenatal Women in Primary Care Settings in Southern India: Prevalence, Associated Factors and Effect of Anti-Helminthic Treatment (/2414-6366/8/1/48)

by Revathi Ulaganeethi (https://sciprofiles.com/profile/2554387), Ganesh Kumar Saya (https://sciprofiles.com/profile/2602608), Nonika Rajkumari (https://sciprofiles.com/profile/2685021), Swetha S. Kumar (https://sciprofiles.com/profile/1497821), Kalaiselvan Ganapathy (https://sciprofiles.com/profile/author/V2c2RWFvaDNkdkNvSzg2eVhBa2ZqejYzOEtBbk1PNUpJRnlRNmRCcmJZOD0=) and Gowri Dorairajan (https://sciprofiles.com/profile/author/WUdHZVV0VXYxMDY3VUZiNFFxMWdlT2MxTkcwVmN0RUhDdnZqZk5lQno3TT0=)

Trop. Med. Infect. Dis. **2023**, *8*(1), 48; https://doi.org/10.3390/tropicalmed8010048 (https://doi.org/10.3390/tropicalmed8010048) - 07 Jan 2023

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Abstract Community-based studies from India on prevalence of soil-transmitted helminth (STH) infections have reported estimates as high as 50% in children. However, prevalence estimates during pregnancy in India are lacking. We aimed to describe the burden, associated factors of STH and cure rate after [...] Read more.

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Echinococcus multilocularis Calreticulin Interferes with C1q-Mediated Complement Activation (/2414-6366/8/1/47)

by Siqi Xian (https://sciprofiles.com/profile/author/ci8wMnRFM3ovOUswZFFFOXJydC83ZkdYWndLZDZ2Rzd3aTI5MlRpUnBmYz0=), Lujuan Chen (https://sciprofiles.com/profile/2479436), Yan Yan (https://sciprofiles.com/profile/author/RHoyNlRDSDlmNXpvY3VQUldmRkRVR1VIWUZJOHJkVjBPWWNISnhGQ2dqQT0=), Jianfang Chen (https://sciprofiles.com/profile/author/Ri9ORGtEcUxtWkhzV0ZuQnhxR1lzZVVkNFZGYTVRQlUwWkZsQ3RLclNaMD0=), Guixia Yu (https://sciprofiles.com/profile/author/UFFUbG8xN2JNS0ZFa0UvRitmSlNiNGU1TnVUM0szSVd0N2pJOVhVN2xyST0=), Yuxiao Shao (https://sciprofiles.com/profile/author/MDJBenZtYVJRWUNDRW4wVWNsZU51RlFWZ0VZeTUyL0tlVmg0a0N3emludz0=), Bin Zhan (https://sciprofiles.com/profile/374033), Yanhai Wang (https://sciprofiles.com/profile/2402123) and Limei Zhao (https://sciprofiles.com/profile/2391269)

Trop. Med. Infect. Dis. **2023**, *8*(1), 47; https://doi.org/10.3390/tropicalmed8010047 (https://doi.org/10.3390/tropicalmed8010047) - 07 Jan 2023

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Abstract As a zoonotic disease caused by *Echinococcus multilocularis* larvae, alveolar echinococcosis (AE) is one of the most severe forms of parasitic infection. Over a long evolutional process *E. multilocularis* has developed complex strategies to escape host immune attack and survive within a host. [...] Read more.

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PD-L2 Blockade Exacerbates Liver Lesion in Mice Infected with *Capillaria hepatica* through Reducing Alternatively Activated Macrophages (/2414-6366/8/1/46)

by Minjun Huang (https://sciprofiles.com/profile/author/aE5JeXBaWU5aTEMyOG9MVjlkWnBJTVYrRERERUDV1RmVmcG9WRG5rd1ZQQT0=), Xiaoli Li (https://sciprofiles.com/profile/author/VzBSYXpNaWhtRTlYbE1lRDMySVBqN2xhWnJpZGN0dXhBb2puOEJ2bEcyWT0=),

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Trop. Med. Infect. Dis. **2023**, *8*(1), 46; https://doi.org/10.3390/tropicalmed8010046 (https://doi.org/10.3390/tropicalmed8010046) - 06 Jan 2023
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Abstract *Capillaria hepatica* is a seriously neglected zoonotic parasite, which infects the liver of mammalian hosts, causing fibrosis or even hepatic failure. At present, the immune responses elicited by *C. hepatica* are not fully understood, and the role(s) of the programmed death 1 (PD-1) [...] Read more.
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Mono-Parasitic and Poly-Parasitic Intestinal Infections among Children Aged 36–45 Months in East Nusa Tenggara, Indonesia (/2414-6366/8/1/45)

by Alpha F. Athiyyah (https://sciprofiles.com/profile/2520164), Ingrid S. Surono (https://sciprofiles.com/profile/2550659),
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Trop. Med. Infect. Dis. **2023**, *8*(1), 45; https://doi.org/10.3390/tropicalmed8010045 (https://doi.org/10.3390/tropicalmed8010045) - 06 Jan 2023
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Abstract The prevalence of intestinal parasitic infection remains high in developing countries, especially because of geographic and socio-demographic factors. This study aimed to evaluate intestinal parasitic infection, as well as its risk factors, among children aged 36–45 months in a rural area (North Kodi) [...] Read more.
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Evaluation of Two Different Strategies for Schistosomiasis Screening in High-Risk Groups in a Non-Endemic Setting (/2414-6366/8/1/44)

by Luisa Roade (https://sciprofiles.com/profile/author/a1J5dHNkWjJDQk9Qd0N6eDFiZEVhZDA3MEkrS1dHcXZnRGhrTG9WZ0dLTT0=),
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Trop. Med. Infect. Dis. **2023**, *8*(1), 44; https://doi.org/10.3390/tropicalmed8010044 (https://doi.org/10.3390/tropicalmed8010044) - 06 Jan 2023
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Abstract A consensus on the recommended screening algorithms for schistosomiasis in asymptomatic high-risk subjects in non-endemic areas is lacking. The objective of this study was to evaluate the real-life performance of direct microscopy and ELISA serology for schistosomiasis screening in a high-risk population in [...] Read more.
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Vitamin D Deficiency (VDD) and Susceptibility towards Severe Dengue Fever—A Prospective Cross-Sectional Study of Hospitalized Dengue Fever Patients from Lahore, Pakistan (/2414-6366/8/1/43)

by Somia Iqtadar (https://sciprofiles.com/profile/2472719),
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Trop. Med. Infect. Dis. **2023**, *8*(1), 43; https://doi.org/10.3390/tropicalmed8010043 (https://doi.org/10.3390/tropicalmed8010043) - 05 Jan 2023
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Abstract Dengue is a mosquito-borne flaviviral serious febrile illness, most common in the tropical and subtropical regions including Pakistan. Vitamin D is a strong immunomodulator affecting both the innate and adaptive immune responses and plays a pivotal role in pathogen-defense mechanisms. There has been [...] Read more.
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[Population Genetics of *Oncomelania hupensis* Snails from New-Emerging Snail Habitats in a Currently *Schistosoma japonicum* Non-Endemic Area (/2414-6366/8/1/42)]

by Yu-Heng Cheng (https://sciprofiles.com/profile/author/c25LVEc2cDd2UWhrM2w1em5lalNxWExBaHZkeGNWckcrT21iTUpUMGk4Zz0=), Meng-Tao Sun (https://sciprofiles.com/profile/author/c0ZvS0VtWkpSbHlCTFlMZFZpVUU2SjVObU8ySGdEU2tuMnFnUUVBSFpx[illegible]0=), Ning Wang (https://sciprofiles.com/profile/author/dEhpNzl1TWwwK0tFRjMrcDczazJjRXg0c2xmcUVXay9JbWtCWUMzczJGRT0=), Chang-Zhe Gao (https://sciprofiles.com/profile/author/NjJTWGk4M0Ryb3EvTFNPRU5iMmgwUzVTWkNWR3hldjdoTWs2K2xCMzMxND0=), Han-Qi Peng (https://sciprofiles.com/profile/author/RUhLOWllWFZrZGVONzBpWFFDVjl6MGF3bkp3YUpsOXF2TEYyeFZKb3hRWT0=), Jie-Ying Zhang (https://sciprofiles.com/profile/author/anRhYlNwcG5KSDNvZUtKV3ZPTFl3YlVBMU5jOGFTRlh1TStCRzhSSUljVT0=), Man-Man Gu (https://sciprofiles.com/profile/author/bUdTWHNpTnlJSktPSURXMFBPQjl4N1Nma1drcTJCNnVacUk0eThpenZGOD0=) and Da-Bing Lu (https://sciprofiles.com/profile/2113505)

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Abstract Schistosomiasis is still one of the most significant neglected tropical diseases worldwide, and China is endemic for *Schistosoma japonicum*. With its great achievement in schistosomiasis control, the government of China has set the goal to eliminate the parasitic disease at the country **[...] Read more.**

(This article belongs to the Special Issue **Control of Schistosome Intermediate Hosts (/journal/tropicalmed/special_issues/6772K925EH)**)

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Public Knowledge and Perceptions about the Emerging Human Mpox in Jordan: A Cross-Sectional Study (/2414-6366/8/1/41)

by Rana K. Abu-Farha (https://sciprofiles.com/profile/1143334), Karem H. Alzoubi (https://sciprofiles.com/profile/2534073), Tareq L. Mukattash (https://sciprofiles.com/profile/46576), Rama Alkhawaldeh (https://sciprofiles.com/profile/author/a2NoK09uSm5lWUJaQVBZb2NxMEpma3l6YThUeWRFMk4vaHB0enZSRit0UT0=), Muna Barakat (https://sciprofiles.com/profile/1211350) and Samar Thiab (https://sciprofiles.com/profile/1507734)

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Abstract Hundreds of human mpox cases are spreading outside of Western and Central Africa, which could be considered a significant world health problem. In this study, we sought to assess public knowledge and perceptions of human mpox. The study was a cross-sectional survey conducted **[...] Read more.**

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The Role of Chloroviruses as Possible Infectious Agents for Human Health: Putative Mechanisms of ATCV-1 Infection and Potential Routes of Transmission (/2414-6366/8/1/40)

by Yury V. Zhernov (https://sciprofiles.com/profile/1892625), Sonya O. Vysochanskaya (https://sciprofiles.com/profile/2376176), Artem A. Basov (https://sciprofiles.com/profile/2273642), Vitaly A. Sukhov (https://sciprofiles.com/profile/author/WFEveG9MMEJWb0VuWXpkVDBQTGNMQmdpbkRRWkNrNERJNmlMT3o3TmRVND0=), Anton A. Simanovsky (https://sciprofiles.com/profile/author/c0pMZUtGdUY5Z0VpTC9TRlpQRkd1Mk1iT3UxbHduSlBhaERDejJhRkhVQ21lTmpEVzZlRGNuQWJUa2R5cHFGUQ==), Inna A. Fadeeva (https://sciprofiles.com/profile/2251833), Roman V. Polibin (https://sciprofiles.com/profile/2682445), Ekaterina A. Sidorova (https://sciprofiles.com/profile/2623650), Denis V. Shcherbakov (https://sciprofiles.com/profile/author/eDl3Z1JnWUsrMUxlcTl1SDl0eVdOU1liU0U3cHpKV1BoaW5naTZTUEQ1NXBkNG5UdWpJUUZLenEvejBCaDB3NA==) and Oleg V. Mitrokhin (https://sciprofiles.com/profile/1644302)

Trop. Med. Infect. Dis. **2023**, *8*(1), 40; https://doi.org/10.3390/tropicalmed8010040 (https://doi.org/10.3390/tropicalmed8010040) - 05 Jan 2023

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Abstract The *Chlorovirus* genus of the *Phycodnaviridae* family includes large viruses with a double-stranded DNA genome. Chloroviruses are widely distributed in freshwater bodies around the world and have been isolated from freshwater sources in Europe, Asia, Australia, and North and South America. One representative **[...] Read more.**

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Open Access Article (/2414-6366/8/1/39/pdf?version=1672911581)

Retrospective Modeling of the Omicron Epidemic in Shanghai, China: Exploring the Timing and Performance of Control Measures (/2414-6366/8/1/39)

by Lishu Lou (https://sciprofiles.com/profile/author/L0VURTBpMW9ZZTA0eThKVXd5WFEzZ3NpYUh4QURnREJwZW9WWmRtQW1KOD0=), Longyao Zhang (https://sciprofiles.com/profile/author/dTVzOFlCcXNtL3NqS0M5TXl3WVhDYW1SM09tNldheHFHbFZnK1MvaWhqWT0=), Jinxing Guan (https://sciprofiles.com/profile/author/aFRBbWY0NE1Tam9QcHZ4RU5OTzJBNzFqVU9PYkNRRDVKTVJmUEFibUF5cz0=), Xiao Ning (https://sciprofiles.com/profile/1872088), Mengli Nie (https://sciprofiles.com/profile/author/eHFkS1o1eDBpMmlQR3Q0aVBXcVVLTHJCZjExRUphUVE4emZscS9jNzR5ST0=), Yongyue Wei (https://sciprofiles.com/profile/2631779) and Feng Chen (https://sciprofiles.com/profile/1452861)

Trop. Med. Infect. Dis. **2023**, *8*(1), 39; https://doi.org/10.3390/tropicalmed8010039 (https://doi.org/10.3390/tropicalmed8010039) - 05 Jan 2023

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Abstract Background: In late February 2022, the Omicron epidemic swept through Shanghai, and the Shanghai government responded to it by adhering to a dynamic zero-COVID strategy. In this study, we conducted a retrospective analysis of the Omicron epidemic in Shanghai to explore the timing **[...] Read more.**

(This article belongs to the Special Issue **Response Strategies for Emerging Infectious Diseases (/journal/tropicalmed/special_issues/6G6M9884Z8)**)

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Democratizing Public Health: Participatory Policymaking Institutions, Mosquito Control, and Zika in the Americas (/2414-6366/8/1/38)

by Michael Touchton (https://sciprofiles.com/profile/2593859) and Brian Wampler (https://sciprofiles.com/profile/author/TEx0cU12L0lTS1ZwZ2QzeHhMV0dQdVRwRmFxbE5OL0ZQVDdWZ1lIbWdEaz0=)

Trop. Med. Infect. Dis. **2023**, *8*(1), 38; https://doi.org/10.3390/tropicalmed8010038 (https://doi.org/10.3390/tropicalmed8010038) - 05 Jan 2023

MDPI (/)

Abstract The Zika virus is a mosquito-borne virus spread primarily by *Aedes* mosquitoes. Zika cases have been detected throughout the mosquito's range, with an epidemic occurring from 2015 to 2017 in Brazil. Many Zika cases are mild or asymptomatic, but infections in pregnant women [...] Read more.

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Essential Oils and Terpenic Compounds as Potential Hits for Drugs against Amitochondriate Protists (/2414-6366/8/1/37)

by Saulo Almeida Menezes (https://sciprofiles.com/profile/2235670) and Tiana Tasca (https://sciprofiles.com/profile/1942249)

Trop. Med. Infect. Dis. **2023**, *8*(1), 37; https://doi.org/10.3390/tropicalmed8010037 (https://doi.org/10.3390/tropicalmed8010037) - 05 Jan 2023

Abstract The human anaerobic or microaerophilic protists *Giardia duodenalis*, *Entamoeba histolytica*, and *Trichomonas vaginalis* are classified as amitochondriate parasites, a group of unicellular organisms that lack canonical mitochondria organelles. These microorganisms suffered adaptations to survive in hostile microenvironments and together represent an increasing [...] Read more.

(This article belongs to the Special Issue Feature Papers in Tropical Medicine and Infectious Disease (/journal/tropicalmed/special_issues/tropical_feature_papers))

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Hematological and Clinical Features Associated with Initial Poor Treatment Outcomes in Visceral Leishmaniasis Patients with and without HIV Coinfection in Gondar, Northwest Ethiopia (/2414-6366/8/1/36)

by Muluneh Ademe (https://sciprofiles.com/profile/2613395),
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Trop. Med. Infect. Dis. **2023**, *8*(1), 36; https://doi.org/10.3390/tropicalmed8010036 (https://doi.org/10.3390/tropicalmed8010036) - 04 Jan 2023

Abstract Ethiopia is among the countries with a high leishmaniasis burden. In this retrospective review, we aimed to determine hematological and clinical features associated with initial poor treatment outcomes of visceral leishmaniasis (VL) patients. The majority of VL cases in this study had leucopenia [...] Read more.

(This article belongs to the Special Issue Advances in Drug Treatment for Leishmaniasis (/journal/tropicalmed/special_issues/T61IYY6SL0))

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Relation between Increased IL-10 Levels and Malaria Severity: A Systematic Review and Meta-Analysis (/2414-6366/8/1/35)

by Phoomjai Sornsenee (https://sciprofiles.com/profile/author/cnk5dElBZWg0SUVSZVl5ZmlIQXlKWEJNVXBEQ01TV0QvdDYyVy9lUkl4ND0=),
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Trop. Med. Infect. Dis. **2023**, *8*(1), 35; https://doi.org/10.3390/tropicalmed8010035 (https://doi.org/10.3390/tropicalmed8010035) - 03 Jan 2023

Abstract The roles of anti-inflammatory cytokines in the pathogenesis of severe malaria have been widely studied, and the role of IL-10 in the pathogenesis of severe malaria remains unclear. Therefore, we performed a systematic review and meta-analysis to determine the difference in IL-10 levels [...] Read more.

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Knowledge, Attitude and Practices towards the Prevention of Schistosomiasis Mansoni in an Endemic Area of Alagoas, Northeast Brazil (/2414-6366/8/1/34)

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José Rodrigo Santos Silva (https://sciprofiles.com/profile/2585680)

Trop. Med. Infect. Dis. **2023**, *8*(1), 34; https://doi.org/10.3390/tropicalmed8010034 (https://doi.org/10.3390/tropicalmed8010034) - 03 Jan 2023

Abstract We analyzed the knowledge, attitudes and practices (KAP) of schistosomiasis mansoni prevention in an endemic area of Brazil. This cross-sectional study was conducted between March and May 2021, with 412 participants living in the municipality of Feira Grande, Alagoas, Brazil. Data collection occurred [...] Read more.
(This article belongs to the Section Neglected and Emerging Tropical Diseases (/journal/tropicalmed/sections/Neglected_Emerging_Tropical_Disease))

Open Access Article (/2414-6366/8/1/33/pdf?version=1672725877)

A Nomogram for Predicting Prognosis of Advanced *Schistosomiasis japonica* in Dongzhi County—A Case Study (/2414-6366/8/1/33)

by Zhong Hong (https://sciprofiles.com/profile/author/NDlCQk0xZEpDQ096NUZ3cTlpMjZ3Y3VBMXhtSS95b0RHY1F1SDVFaEN3MD0=), Shiqing Zhang (https://sciprofiles.com/profile/author/YUx4YkNlUE9VbnRmY1dUcWVSTXdub2xrUDFSTkdwaTUvT3FvMUtCYnZZbz0=), Lu Li (https://sciprofiles.com/profile/2530794), Yinlong Li (https://sciprofiles.com/profile/1792951), Ting Liu (https://sciprofiles.com/profile/author/eTFuQ2FXK2h2WGR1clNFa1NndE1aUk11ZDA0Ym9kem5NTmlkUkVkMGxwYz0=), Suying Guo (https://sciprofiles.com/profile/1779140), Xiaojuan Xu (https://sciprofiles.com/profile/author/VnVUU0FNYWVUYnZzM2k3QmdZaTM4Zz09), Zhaoming Yang (https://sciprofiles.com/profile/author/TmlMeDl2bExoQmtJc2pJek5NbUxDZTA1eEg2MThaV01sd0JzRVpRTW1rYz0=), Haoyi Zhang (https://sciprofiles.com/profile/author/V21peVFLdWR1d21nTmZaRUlzZzQ5UT09) and Jing Xu (https://sciprofiles.com/profile/1784502)

Trop. Med. Infect. Dis. **2023**, *8*(1), 33; https://doi.org/10.3390/tropicalmed8010033 (https://doi.org/10.3390/tropicalmed8010033) - 03 Jan 2023

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Abstract Backgrounds: Advanced schistosomiasis is the late stage of schistosomiasis, seriously jeopardizing the quality of life or lifetime of infected people. This study aimed to develop a nomogram for predicting mortality of patients with advanced schistosomiasis japonica, taking Dongzhi County of China as a [...] Read more.
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Open Access Review (/2414-6366/8/1/32/pdf?version=1672724774)

Increasing Dengue Burden and Severe Dengue Risk in Bangladesh: An Overview (/2414-6366/8/1/32)

by Mohammad Enamul Hoque Kayesh (https://sciprofiles.com/profile/892114), Ibrahim Khalil (https://sciprofiles.com/profile/1915977), Michinori Kohara (https://sciprofiles.com/profile/1087577) and Kyoko Tsukiyama-Kohara (https://sciprofiles.com/profile/349967)

Trop. Med. Infect. Dis. **2023**, *8*(1), 32; https://doi.org/10.3390/tropicalmed8010032 (https://doi.org/10.3390/tropicalmed8010032) - 03 Jan 2023

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Abstract Dengue is a prevalent and rapidly spreading mosquito-borne viral disease affecting humans. The geographic range of dengue is expanding, and much like in many other tropical regions of the world, dengue has become a major public health issue in Bangladesh. Until a large [...] Read more.
(This article belongs to the Special Issue Emerging Topics in Arbovirus Vectors (/journal/tropicalmed/special_issues/Arboviruses_Vector))

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Open Access Article (/2414-6366/8/1/31/pdf?version=1672654121)

Missing Cases of Bacteriologically Confirmed TB/DR-TB from the National Treatment Registers in West and North Sumatra Provinces, Indonesia (/2414-6366/8/1/31)

by Ratno Widoyo (https://sciprofiles.com/profile/author/MExtckMvTTFzbFRLMnpOTE9obUczMXN4YkNCcEVONXlpN1BGaWVVQno0ST0=), Defriman Djafri (https://sciprofiles.com/profile/2686214), Ade Suzana Eka Putri (https://sciprofiles.com/profile/author/cE9hZk1jSXdKaG81WlBOclFlMkhQczVLT0hlN25QbS9DRXcza0JKT0lKYz0=), Finny Fitry Yani (https://sciprofiles.com/profile/author/S2hiM3lobm9OeE5XcXh6S2ZaWmpnZWl5RDNTaC90dDlGYy9WK0lRTXFMND0=), R Lia Kusumawati (https://sciprofiles.com/profile/2695325), Thakerng Wongsirichot (https://sciprofiles.com/profile/1417612) and Virasakdi Chongsuvivatwong (https://sciprofiles.com/profile/483348)

Trop. Med. Infect. Dis. **2023**, *8*(1), 31; https://doi.org/10.3390/tropicalmed8010031 (https://doi.org/10.3390/tropicalmed8010031) - 02 Jan 2023

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Abstract This study aimed to assess the percentage of confirmed drug-sensitive (DS) TB and drug-resistant (DR) TB patients who were missing in the national treatment registration in North Sumatra and West Sumatra, where treatment services for DR-TB in North Sumatra are relatively well established [...] Read more.
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Open Access Article (/2414-6366/8/1/30/pdf?version=1672459792)

Identification of Hazard and Socio-Demographic Patterns of Dengue Infections in a Colombian Subtropical Region from 2015 to 2020: Cox Regression Models and Statistical Analysis (/2414-6366/8/1/30)

by Santiago Ortiz (https://sciprofiles.com/profile/2405759), Alexandra Catano-Lopez (https://sciprofiles.com/profile/1612752), Henry Velasco (https://sciprofiles.com/profile/1054663), Juan P. Restrepo (https://sciprofiles.com/profile/2746139), Andrés Pérez-Coronado (https://sciprofiles.com/profile/author/ZVpiakdFSDFicDRiT2FlbXgrMzJsak1oMHJucWhZaU82K1NQZEFuTHU1VT0=), Henry Laniado (https://sciprofiles.com/profile/2746204) and Víctor Leiva (https://sciprofiles.com/profile/402113)

Trop. Med. Infect. Dis. **2023**, *8*(1), 30; https://doi.org/10.3390/tropicalmed8010030 (https://doi.org/10.3390/tropicalmed8010030) - 30 Dec 2022

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Abstract Dengue is a disease of high interest for public health in the affected localities. Dengue virus is transmitted by *Aedes* species and presents hyperendemic behaviors in tropical and subtropical regions. Colombia is one of the countries most affected by the dengue virus in [...] Read more.
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Programmatic Implementation of Contact Investigation in Eight African Countries (/2414-6366/8/1/29)

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Trop. Med. Infect. Dis. **2023**, *8*(1), 29; https://doi.org/10.3390/tropicalmed8010029 (https://doi.org/10.3390/tropicalmed8010029) - 30 Dec 2022

Abstract The objective was to implement CI under national tuberculosis programmatic conditions and to advocate for its scaling up. Contact investigation was implemented in 150 Basic Management Units identified across eight countries. The target populations (children <5 years and persons living with HIV (PLHIV)) [...] Read more.

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Impact of Coronavirus Pandemic on Tuberculosis and Other Imported Diseases Screening among Migrant Minors in Spain (/2414-6366/8/1/28)

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Trop. Med. Infect. Dis. **2023**, *8*(1), 28; https://doi.org/10.3390/tropicalmed8010028 (https://doi.org/10.3390/tropicalmed8010028) - 29 Dec 2022

Abstract Background: In recent decades, the increase in population movements has turned the focus to imported diseases. The COVID-19 pandemic has negatively impacted the access to health care systems, especially in highly vulnerable populations. We address the effects of the pandemic on the health [...] Read more.
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SafeHANDS: A Multimodal Hand Hygiene Intervention in a Resource-Limited Neonatal Unit (/2414-6366/8/1/27)

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Trop. Med. Infect. Dis. **2023**, *8*(1), 27; https://doi.org/10.3390/tropicalmed8010027 (https://doi.org/10.3390/tropicalmed8010027) - 29 Dec 2022

Abstract Background: Hand hygiene (HH) is a cornerstone of programmes to prevent healthcare associated infections (HAI) globally, but HH interventions are seldom reported from African neonatal units. Methods: We conducted a quasi-experimental study evaluating the impact of a multi-modal intervention (SafeHANDS) on HH compliance [...] Read more.
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Open Access Article (/2414-6366/8/1/26/pdf?version=1672305327)

Genotypic and Phenotypic Characterization of Erythromycin-Resistant *Staphylococcus aureus* Isolated from Bovine Mastitis and Humans in Close Contact (/2414-6366/8/1/26)

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Trop. Med. Infect. Dis. **2023**, *8*(1), 26; https://doi.org/10.3390/tropicalmed8010026 (https://doi.org/10.3390/tropicalmed8010026) - 29 Dec 2022

Abstract *Staphylococcus aureus* (*S. aureus*) is a major causative agent of mastitis and is resistant to many antibiotics. Thus, there is a need to characterize the genetic determinants of *S. aureus* erythromycin resistance, such as *ermA*, *ermB* and *ermC*. The [...] Read more.
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Epidemiological Profile and Spatial Patterns of Enterobiasis in Children Aged 3–9 Years in China from 2016 to 2020 (/2414-6366/8/1/25)

by Jilei Huang (https://sciprofiles.com/profile/2619241), Huihui Zhu (https://sciprofiles.com/profile/author/V1ZLTlZpYk1mSVBsVEk4a1l4SDBsSW1lTFZLK3NSckJDUUVYMmpFZSs2TT0=), Changhai Zhou (https://sciprofiles.com/profile/author/YkJBSFVURHBXcEE0OVM1Z0pTOE4rK2w5OWZhWTlyTWJPL2hNSEN4L2l0TT0=), Tingjun Zhu (https://sciprofiles.com/profile/author/bVlrcUhSOEs1a0h4R3BzQWUyQjMzQStKYy9zaW9IQnYxVDZQZWxCa2w5bz0=), Mizhen Zhang (https://sciprofiles.com/profile/author/RjNLLy9zQkFmUVZzYkRqbDM4cEZadDBZZnJDRGJpbkw5TU92WmkvUTNFYz0=), Yingdan Chen (https://sciprofiles.com/profile/author/blpQTlhKWC8rZ1BpY0RSaGxEVnRjeDlvamI0TVNQd2JEb0tpL2VVSG9vUT0=), Menbao Qian (https://sciprofiles.com/profile/2627098) and Shizhu Li (https://sciprofiles.com/profile/2246107)

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Abstract (1) Background: *Enterobius vermicularis* infection causes a significant health burden in children. The infection occurs throughout the country and remains a serious public concern in China. Therefore, it is necessary to know the situation of *E. vermicularis* infection, to provide a scientific basis [...] Read more.

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Transmission Risk Predicting for Schistosomiasis in Mainland China by Exploring Ensemble Ecological Niche Modeling (/2414-6366/8/1/24)

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Trop. Med. Infect. Dis. **2023**, *8*(1), 24; https://doi.org/10.3390/tropicalmed8010024 (https://doi.org/10.3390/tropicalmed8010024) - 28 Dec 2022

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Abstract Schistosomiasis caused by *Schistosoma japonicum* is one of the major neglected tropical diseases worldwide. The snail *Oncomelania hupensis* is the only intermediate host of *S. japonicum*, which is recognized as an indicator of the schistosomias occurrence. In order to evaluate the risk of [...] Read more.

(This article belongs to the Special Issue Control of Schistosome Intermediate Hosts (/journal/tropicalmed/special_issues/6772K925EH))

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Antibiotic Consumption in Vanuatu before and during the COVID-19 Pandemic, 2018 to 2021: An Interrupted Time Series Analysis (/2414-6366/8/1/23)

by Nicola D. Foxlee (https://sciprofiles.com/profile/624420), Amsaline Lui (https://sciprofiles.com/profile/author/S0NoWFRDVzNudkpPZjBSV2RkV0ErZjdheGh6S0tQdmdES3QzYXRvcEVCMD0=), Agnes Mathias (https://sciprofiles.com/profile/author/MTd4L01ueVNuVFNGV0pXdTNXZ1czQTN6QUV6VXA5NEx4bnk2TUNrNER5TT0=), Nicola Townell (https://sciprofiles.com/profile/1028494) and Colleen L. Lau (https://sciprofiles.com/profile/395418)

Trop. Med. Infect. Dis. **2023**, *8*(1), 23; https://doi.org/10.3390/tropicalmed8010023 (https://doi.org/10.3390/tropicalmed8010023) - 27 Dec 2022

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Abstract The study objective was to examine antibiotic consumption at Vila Central Hospital (VCH) in Vanuatu between January 2018 and December 2021 and the influence of the COVID-19 pandemic on antibiotic consumption during this period. Data on antibiotic usage were obtained from the Pharmacy database. [...] Read more.

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Prevalence and Associated Risk Factors of Intestinal Parasitic Infections: A Population-Based Study in Phra Lap Sub-District, Mueang Khon Kaen District, Khon Kaen Province, Northeastern Thailand (/2414-6366/8/1/22)

by Sirintip Boonjaraspinyo (https://sciprofiles.com/profile/2731977), Thidarut Boonmars (https://sciprofiles.com/profile/1826536), Nuttapon Ekobol (https://sciprofiles.com/profile/author/UUF6Z3JiZWtwcTltaEdMbzZiMyt5bDlrQUE0YUU0RmxGOGt3RGNCakRNQT0=), Atchara Artchayasawat (https://sciprofiles.com/profile/author/UEZFdjJDT0VBUXdhbDZDS0haeXNNbVpYRXFYWllRYWxGbWdnNlNmUTRVWT0=), Pranee Sriraj (https://sciprofiles.com/profile/author/d2w3YUd0dWJZTkxtMld3MXVSSGFjRGJCV3JacGtUY3ZqUkZkUHliTG93ST0=), Ratchadawan Aukkanimart (https://sciprofiles.com/profile/author/Y1FTRzlFdXpyWWxpUkdkRnFCUUtxR1BSZmYxVlViUWhoa3pNdjZEWUY5WT0=), Benjamabhorn Pumhirunroj (https://sciprofiles.com/profile/2463445), Panupan Sripan (https://sciprofiles.com/profile/2824360), Jiraporn Songsri (https://sciprofiles.com/profile/author/a1laaWZjMkdkbnR3TWFGY1d5Z2F6elZaWXNjQk5aNFRiQ0wzSytuSkNNdz0=), Amornrat Juasook (https://sciprofiles.com/profile/1372407) and Nadchanan Wonkchalee (https://sciprofiles.com/profile/2674781)

Trop. Med. Infect. Dis. **2023**, *8*(1), 22; https://doi.org/10.3390/tropicalmed8010022 (https://doi.org/10.3390/tropicalmed8010022) - 27 Dec 2022

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Abstract Intestinal parasitic infections are still a crucial problem among communities in Northeast Thailand. Misuse of antiparasitic drugs and unhealthy food behaviors are known. This study aimed to explore the prevalence, behavioral health factors, and motivation for self-treatment of anti-parasitic drugs in this area. [...] Read more.

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No Evidence of Ntwetwe Virus Infections in Children Presenting to Kiboga Hospital, Uganda (/2414-6366/8/1/21)

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Trop. Med. Infect. Dis. **2023**, *8*(1), 21; https://doi.org/10.3390/tropicalmed8010021 (https://doi.org/10.3390/tropicalmed8010021) - 27 Dec 2022
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Abstract We investigated whether Ntwetwe virus—a novel orthobunyavirus discovered in a Ugandan girl with a fatal encephalopathy—was a common reason for hospital admission for children to Kiboga hospital, Uganda. A case–control was conducted between September 2019 and September 2020, including cases with severe neurological **[...] Read more.**
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Open Access Editor's Choice Article (/2414-6366/8/1/20/pdf?version=1672127758)

Reduction in Anti-Dengue Virus IgG Antibody Levels with the Use of a Larvicide for Vector Control in Rural Lao People's Democratic Republic (/2414-6366/8/1/20)

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Trop. Med. Infect. Dis. **2023**, *8*(1), 20; https://doi.org/10.3390/tropicalmed8010020 (https://doi.org/10.3390/tropicalmed8010020) - 27 Dec 2022
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Abstract The Lao People's Democratic Republic is an endemic area of dengue, with cases reported in urban and rural areas every year. In this study, we indirectly evaluated the efficacy of a larvicide (SumiLarv^{TM} 2MR discs) that was used for vector control against **[...] Read more.**
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Open Access Article (/2414-6366/8/1/19/pdf?version=1672134232)

A Retrospective Analysis of Culture-Confirmed Enterococci Bloodstream Infections in South Africa, 2016–2020: A Cross-Sectional Study (/2414-6366/8/1/19)

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Trop. Med. Infect. Dis. **2023**, *8*(1), 19; https://doi.org/10.3390/tropicalmed8010019 (https://doi.org/10.3390/tropicalmed8010019) - 27 Dec 2022
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Abstract (1) **Background**: The emergence of multidrug resistance enterococci is a major public health concern. This study aimed to determine the prevalence and antimicrobial resistance of enterococci isolated from blood cultures over a five-year period (2016–2020) at public hospitals in South Africa. (2): **[...] Read more.**
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Open Access Editor's Choice Article (/2414-6366/8/1/18/pdf?version=1672124085)

Characterization of Regulatory T Cells in Patients Infected by *Leishmania Infantum* (/2414-6366/8/1/18)

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Trop. Med. Infect. Dis. **2023**, *8*(1), 18; https://doi.org/10.3390/tropicalmed8010018 (https://doi.org/10.3390/tropicalmed8010018) - 27 Dec 2022
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Abstract High IL-10 levels are pivotal to parasite survival in visceral leishmaniasis (VL). Antigenic stimuli induce IL-10 expression and release of adenosine by CD39/CD73. Due their intrinsic ability to express IL-10 and produce adenosine from extracellular ATP, we evaluated the IL-10, CD39, and CD73 **[...] Read more.**
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Open Access Article (/2414-6366/8/1/17/pdf?version=1672121516)

A Dynamic Compartmental Model to Explore the Optimal Strategy of Varicella Vaccination: An Epidemiological Study in Jiangsu Province, China (/2414-6366/8/1/17)

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Abstract Varicella (chickenpox) is highly contagious among children and frequently breaks out in schools. In this study, we developed a dynamic compartment model to explore the optimal schedule for varicella vaccination in Jiangsu Province, China. A susceptible-infected-recovered (SIR) model was proposed to simulate the [...] Read more.
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Vertical Transfer of Humoral Immunity against Nipah Virus: A Novel Evidence from Bangladesh (/2414-6366/8/1/16)

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Abstract A major obstacle to in-depth investigation of the immune response against Nipah virus (NiV) infection is its rapid progression and high mortality rate. This paper described novel information on the vertical transfer of immune properties. In January 2020, a female aged below five [...] Read more.
(This article belongs to the Special Issue The Immunology of Zoonotic Infection (/journal/tropicalmed/special_issues/Immun_zoonotic))

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Mpox Infection in a Developed Country: A Case Report (/2414-6366/8/1/15)

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Abstract This is the first Israeli case report of mpox (monkeypox) disease, as it is manifested in the current outbreak. This manuscript depicts two detailed patient journeys of Israeli men in their 30s who were diagnosed in recent months, depicting their symptoms, presumed exposure, [...] Read more.
(This article belongs to the Special Issue Rising Stars in Mpox Research (/journal/tropicalmed/special_issues/Monkeypox_Research))

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Comparison of the PF07598-Encoded Virulence-Modifying Proteins of *L. interrogans* and *L. borgpetersenii* (/2414-6366/8/1/14)

by Dielson S. Vieira (https://sciprofiles.com/profile/2622974), Reetika Chaurasia (https://sciprofiles.com/profile/2683719) and
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Trop. Med. Infect. Dis. **2023**, *8*(1), 14; https://doi.org/10.3390/tropicalmed8010014 (https://doi.org/10.3390/tropicalmed8010014) - 26 Dec 2022
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Abstract Leptospirosis is an emerging infectious disease, with increasing frequency and severity of outbreaks, a changing epidemiology of populations at risk, and the emergence of new strains, serovars, serogroups, and species. Virulence-modifying (VM) proteins encoded by the PF07598 gene family are hypothesized to be [...] Read more.
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The Role of Post-Bronchoscopy Sputum Examination in Screening for Active Tuberculosis (/2414-6366/8/1/13)

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Trop. Med. Infect. Dis. **2023**, *8*(1), 13; https://doi.org/10.3390/tropicalmed8010013 (https://doi.org/10.3390/tropicalmed8010013) - 26 Dec 2022
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Abstract Early diagnosis is a fundamental component of global tuberculosis control. The objective of this study was to evaluate the diagnostic yield of post-bronchoscopy sputum (PBS) testing as part of a tuberculosis diagnostic work-up. All new residents in the State of Qatar undergo a **[...] Read more.**
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Open Access Article (/2414-6366/8/1/12/pdf?version=1671958517)

Spatial Distribution and Temporal Trend of Childhood Tuberculosis in Brazil (/2414-6366/8/1/12)

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Trop. Med. Infect. Dis. **2023**, *8*(1), 12; **https://doi.org/10.3390/tropicalmed8010012 (https://doi.org/10.3390/tropicalmed8010012)** - 25 Dec 2022

Abstract Tuberculosis (TB) in children presents specificities in its diagnosis, which makes it prone to underreporting: therefore, the disease in this group is still a serious public health problem in several countries. We aimed to analyze the spatial distribution and temporal trend of childhood **[...] Read more.**
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Open Access Article (/2414-6366/8/1/11/pdf?version=1672123885)

Prevalence of Mosquito Populations in the Caribbean Region of Colombia with Important Public Health Implications (/2414-6366/8/1/11)

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Trop. Med. Infect. Dis. **2023**, *8*(1), 11; **https://doi.org/10.3390/tropicalmed8010011 (https://doi.org/10.3390/tropicalmed8010011)** - 25 Dec 2022

Abstract Mosquito studies are important for understanding their role in the transmission of pathogens including arboviruses, parasites, and protozoa. This study characterized the prevalence of Culicidae fauna in rural and peri-urban areas with human populations in the Colombian Caribbean region to establish the risk **[...] Read more.**
(This article belongs to the Special Issue **Emerging Topics in Arbovirus Vectors (/journal/tropicalmed/special_issues/Arboviruses_Vector)**)

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Open Access Editor's Choice Article (/2414-6366/8/1/9/pdf?version=1671777460)

Prevalence of JC and BK Polyomavirus Infection in Patients with Chronic Kidney Disease in the State of Pará, Brazil (/2414-6366/8/1/9)

by
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Trop. Med. Infect. Dis. **2023**, *8*(1), 9; **https://doi.org/10.3390/tropicalmed8010009 (https://doi.org/10.3390/tropicalmed8010009)** - 23 Dec 2022

Abstract The polyomaviruses that infect humans, JC virus (JCV) and BK virus (BKV), can establish persistent infections in the cells that make up the renal system, causing nephritis and BKV-associated nephropathy in up to 10% of renal transplant patients, and of these, 90% lose **[...] Read more.**
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Open Access Article (/2414-6366/8/1/10/pdf?version=1673843345)

A Use of 56-kDa Recombinant Protein of *Orientia tsutsugamushi* Karp Serotype in Serodiagnosis of Scrub Typhus by Enzyme-Linked Immunosorbent Assay in Thais (/2414-6366/8/1/10)

by **Phanita Chankate (https://sciprofiles.com/profile/author/bllpRlgzTXZKSmxDTWNGT05XeFVXQi9YaGZ0VmZsMWphYklrNXdkcTdmTT0=)**,
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Trop. Med. Infect. Dis. **2023**, *8*(1), 10; **https://doi.org/10.3390/tropicalmed8010010 (https://doi.org/10.3390/tropicalmed8010010)** - 23 Dec 2022

Abstract Scrub typhus is a mite-borne disease caused by a Gram-negative obligately intracellular bacillus, *Orientia tsutsugamushi*. The disease is endemic in the Asia–Australia–Pacific region, including Thailand. Scrub typhus generally manifests as acute undifferentiated febrile fever along with myalgia, rash, and lymphadenopathy. An eschar **[...] Read more.**
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Open Access Case Report (/2414-6366/8/1/8/pdf?version=1671719453)

Hepatitis C Infection Associated with Acquired Pure Red Cell Aplasia (/2414-6366/8/1/8)

by Destini Teague (https://sciprofiles.com/profile/2651874), Carmelo Gurnari (https://sciprofiles.com/profile/948575),
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Trop. Med. Infect. Dis. **2023**, *8*(1), 8; https://doi.org/10.3390/tropicalmed8010008 (https://doi.org/10.3390/tropicalmed8010008) - 22 Dec 2022

Abstract Acquired pure red cell aplasia is a rare bone marrow failure disorder characterized by many underlying etiologies. The hallmark bone marrow feature is the near absence of erythroid precursors that otherwise exhibit normal cellularity, which has been attributed to both immune- and cellular-mediated [...] Read more.
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Open Access Article (/2414-6366/8/1/7/pdf?version=1673021242)

Diagnostic Specificity of Two Dengue Virus IgG ELISAs after Yellow Fever and Japanese Encephalitis Virus Vaccination (/2414-6366/8/1/7)

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Trop. Med. Infect. Dis. **2023**, *8*(1), 7; https://doi.org/10.3390/tropicalmed8010007 (https://doi.org/10.3390/tropicalmed8010007) - 22 Dec 2022

Abstract Dengue virus (DENV) antibody assays frequently cross-react with sera from individuals who have been infected with or vaccinated against related flaviviruses. The goal of this study was to determine the specificity of two DENV ELISAs with sera from individuals vaccinated against yellow fever [...] Read more.
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Leptospira borgpetersenii **Leucine-Rich Repeat Proteins Provide Strong Protective Efficacy as Novel Leptospiral Vaccine Candidates (/2414-6366/8/1/6)**

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Trop. Med. Infect. Dis. **2023**, *8*(1), 6; https://doi.org/10.3390/tropicalmed8010006 (https://doi.org/10.3390/tropicalmed8010006) - 22 Dec 2022

Abstract Leucine-rich repeat (LRR) proteins are advocated for being assessed in vaccine development. Leptospiral LRR proteins were identified recently in silico from the genome of *Leptospira borgpetersenii* serogroup Sejroe, the seroprevalence of leptospiral infections of cattle in Thailand. Two LRR recombinant proteins, rKU_Sej_LRR_2012M (2012) [...] Read more.
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The Influence of Anthropogenic and Environmental Disturbances on Parameter Estimation of a Dengue Transmission Model (/2414-6366/8/1/5)

by Alexandra Catano-Lopez (https://sciprofiles.com/profile/1612752), Daniel Rojas-Diaz (https://sciprofiles.com/profile/2796240) and
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Trop. Med. Infect. Dis. **2023**, *8*(1), 5; https://doi.org/10.3390/tropicalmed8010005 (https://doi.org/10.3390/tropicalmed8010005) - 22 Dec 2022

Abstract Some deterministic models deal with environmental conditions and use parameter estimations to obtain experimental parameters, but they do not consider anthropogenic or environmental disturbances, e.g., chemical control or climatic conditions. Even more, they usually use theoretical or measured in-lab parameters without worrying about [...] Read more.
(This article belongs to the Special Issue **Advancing Mathematical Models of Mosquito-Borne Diseases (/journal/tropicalmed/special_issues/AMMMD)**)

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Open Access Editor's Choice Systematic Review (/2414-6366/8/1/4/pdf?version=1671697664)

Detection of Monkeypox Virus according to The Collection Site of Samples from Confirmed Cases: A Systematic Review (/2414-6366/8/1/4)

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Trop. Med. Infect. Dis. **2023**, *8*(1), 4; https://doi.org/10.3390/tropicalmed8010004 (https://doi.org/10.3390/tropicalmed8010004) - 22 Dec 2022

Abstract Due to the rapid evolution of the monkeypox virus, the means by which the monkeypox virus is spread is subject to change. Therefore, the present study aims to analyze the detection of the monkeypox virus according to the collection site of samples from [...] Read more.

(This article belongs to the Topic Human Monkeypox Research (/topics/Human_Monkeypox))

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Toxoplasmosis Infection during Pregnancy (/2414-6366/8/1/3)

by Myla Deganich (https://sciprofiles.com/profile/2659581), Crystal Boudreaux (https://sciprofiles.com/profile/author/SE12MUtreGxCK0tXbEZUSHJ3REhiYlVmSTllaUt4Qlh3WndjVzZjTGJjdz0=) and Imaan Benmerzouga (https://sciprofiles.com/profile/787127)

Trop. Med. Infect. Dis. **2023**, *8*(1), 3; https://doi.org/10.3390/tropicalmed8010003 (https://doi.org/10.3390/tropicalmed8010003) - 21 Dec 2022

Abstract This literature review aims to give an overview of the current knowledge concerning how a toxoplasmosis infection affects the mother and her fetus. A thorough search of PubMed and a complimentary search of Google Scholar databases were used to identify relevant studies for [...] Read more.

(This article belongs to the Special Issue Recent Advances in *Toxoplasma gondii* Infection and Toxoplasmosis (/journal/tropicalmed/special_issues/Toxoplasma_gondii_Infection))

Open Access Communication (/2414-6366/8/1/2/pdf?version=1672999649)

First Case of Monkeypox in Venezuela: Partial Complete Genome Sequence Allowed Its Grouping into the West African Clade II (/2414-6366/8/1/2)

by Pierina D'Angelo (https://sciprofiles.com/profile/author/VWczUHhLSUVCckhYREJpdytGWWVVR04wR2xYamJ6SnFvYnBxQTRZMjZuVT0=), Carmen L. Loureiro (https://sciprofiles.com/profile/author/Z3FocHBSbUhjRGxvU1F0MXBMSldWMTExRnFHSWJwUTY0MUFKdWJORWVUMD0=), Rossana C. Jaspe (https://sciprofiles.com/profile/author/bHcxR093ZUxONTQyZklza1lJU215QlBuT0Z1UGM1Ry8xbWFZUWJoYVBYRT0=), Yoneira F. Sulbaran (https://sciprofiles.com/profile/author/ZXV3WHp5SUF0U1ZDV0x5Vkd1KzY5dGlyZHFmVU44dzlmSDF3eDhnNnZ3TT0=), Lieska Rodríguez (https://sciprofiles.com/profile/author/STA5TlRHQU1zdkhGSkRHbmwyeCtpUU5SWCtWQVlRdHNwSWFGZHVmWko3ST0=), Víctor Alarcón (https://sciprofiles.com/profile/2289709), José Manuel García (https://sciprofiles.com/profile/author/dzE3bVJOVGxuNWhGQ280SGRZSkhyMTVJVHRGNmxnblFEenhYSGJuVS9OWT0=), José Luis Zambrano (https://sciprofiles.com/profile/2554254), Ferdinando Liprandi (https://sciprofiles.com/profile/author/R0JaUFZTSFlqL2VHTktyMDdHb2hZY2cwbG4yQk1JK0ZHZm54WmgzQitEST0=), Héctor R. Rangel (https://sciprofiles.com/profile/1951017) and Flor H. Pujol (https://sciprofiles.com/profile/383640)

Trop. Med. Infect. Dis. **2023**, *8*(1), 2; https://doi.org/10.3390/tropicalmed8010002 (https://doi.org/10.3390/tropicalmed8010002) - 21 Dec 2022

Abstract The ongoing epidemic of monkeypox virus (MPXV) infection has already reached more than 50,000 persons worldwide until the end of August 2022. We report the first case detected in Venezuela. The patient reported traveling from Spain and contact with friends tested positive for [...] Read more.

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Open Access Article (/2414-6366/8/1/1/pdf?version=1672134601)

Entomological Surveillance Activities in Regions in Greece: Data on Mosquito Species Abundance and West Nile Virus Detection in *Culex pipiens* Pools (2019–2020) (/2414-6366/8/1/1)

by Annita Vakali (https://sciprofiles.com/profile/926508), Stavroula Beleri (https://sciprofiles.com/profile/1259347), Nikolaos Tegos (https://sciprofiles.com/profile/1792161), Anastasia Fytrou (https://sciprofiles.com/profile/author/Z1ZyQnp4dUI5Qk9rSmZDZktreEZ1RjNFcGRraUhPUDV2UVYyVWFHMUt0MD0=), Anastasia Mpimpa (https://sciprofiles.com/profile/author/cXBuK1ZnQ0VlYmpVanA5T3FCYmJtRlQ4YmNwR3k3L2pOY3B3UkVlVWZJVT0=), Theodoros N. Sergentanis (https://sciprofiles.com/profile/1688877), Danai Pervanidou (https://sciprofiles.com/profile/author/K1VuMzM4YU5FZUZGbTl1U1NqRGp5ZFhCb080MnN1aVp1alB4MG1GQ0tRND0=) and Eleni Patsoula (https://sciprofiles.com/profile/1617070)

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Trop. Med. Infect. Dis. **2023**, *8*(1), 1; https://doi.org/10.3390/tropicalmed8010001 (https://doi.org/10.3390/tropicalmed8010001) - 20 Dec 2022

Abstract Human cases of West Nile virus (WNV) infections have been recorded in Greece since 2010, with seasonal outbreaks (summer-autumn) on an almost annual basis, caused mainly by the WNV lineage 2 strain (Nea Santa-Greece-2010). National Public Health Organization (NPHO) in Greece is annually [...] Read more.

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Tropical Medicine and Infectious Disease

Article

Mono-Parasitic and Poly-Parasitic Intestinal Infections among Children Aged 36–45 Months in East Nusa Tenggara, Indonesia

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Abstract: The prevalence of intestinal parasitic infection remains high in developing countries, especially because of geographic and socio-demographic factors. This study aimed to evaluate intestinal parasitic infection, as well as its risk factors, among children aged 36–45 months in a rural area (North Kodi) and an urban area (Kupang) of East Nusa Tenggara, Indonesia. Anthropometry, socio-demographic factors and personal hygiene practices were assessed. A total of 214 children participated in the study, and 200 stool samples were collected for intestinal parasite examination. Approximately 30.5% (61/200) of the children were infected with one or more intestinal parasites (67.2%; 41/61 being mono-parasitic infections and 32.8%; 20/61 being poly-parasitic infections). A total of 85 intestinal parasites were detected, consisting of 35.3% (30/85) protozoa and 64.7% (55/85) helminths. The predominant protozoa were *Giardia lamblia* (43%; 13/30) and *Blastocystis* spp. (33.3%; 10/30), whereas the predominant helminths were *Trichuris trichiura* (50.9%; 28/55) and *Ascaris lumbricoides* (43.6%; 24/55). Moreover, intestinal parasitic infection was associated with rural area (OR 4.5; 95%CI 2.3–8.6); the absence of treatment with deworming drugs (OR 2.56; 95%CI 1.3–5.0); sanitation facilities without a septic tank (OR 4.3; 95%CI 2.1–8.5); unclean water as a source of drinking water (OR 4.67; 95%CI 2.4–9.4); no handwashing practice after defecation (OR 3.2; 95%CI 1.4–7.3); and stunted children (OR 4.4; 95%CI 2.3–8.3). In conclusion, poly-parasitic infections were common in this study. Poor personal hygiene practice and sanitation factors contributed to the high prevalence of intestinal parasitic infection in 36–45-month-old children in East Nusa Tenggara, Indonesia.

Keywords: intestinal parasitic infection; protozoa; helminth; young children; East Nusa Tenggara; Indonesia

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1. Introduction

Intestinal parasitic infections, particularly those of protozoa and helminth, are responsible for morbidity in children worldwide and represent a major public health problem in developing countries that is often neglected [1–3]. Children are particularly susceptible to infection by these microorganisms, which further negatively affects their nutritional status and physical development [1,2]. The global prevalence of intestinal parasitic infections remains high, with approximately 3.5 billion people infected and more than 200,000 deaths [4,5]. Based on data from 118 countries, the highest prevalence for soil-transmitted helminth infections (STHs) is detected in South Asia, Southeast Asia, and Sub-Saharan Africa. Of these infections, 67.3% occur in Asia [6]. In Indonesia, the prevalence of helminth infections is reported to vary between 2.5 and 62% [7]. East Nusa Tenggara, Indonesia, as a remote area, still experiences a high prevalence of parasitic infection. The STHs prevalence in Southwest Sumba and West Sumba in East Nusa Tenggara is >20%; however, the exact prevalence is difficult to ascertain. The prevalence of protozoan infections with *Entamoeba histolytica*, Giardia lamblia, and *Blastocystis hominis* (*Bh*) is reported to be 17.9% (76/424), 4.5% (19/424), and 34.4% (146/424), respectively [8].

In low- and middle-income countries, exposure to inadequate drinking water, sanitation, hygiene conditions, and hygiene behaviors are attributed to a greater proportion of intestinal parasite infections [9]. A recent systematic review reported that age, sex, residence, toilet facilities, washing hands with soap before a meal, shoe-wearing habits, trimming nails, eating undercooked food, personal hygiene and source of drinking water are the most risk factors for intestinal parasite infection [10]. Intestinal parasitic infections and their risk factors in Indonesia warrant further study. The current work was, therefore, carried out to evaluate the risk factors for intestinal parasitic infections among children aged 36–45 months in North Kodi and Kupang, East Nusa Tenggara, Indonesia.

2. Materials and Methods

2.1. Study Design and Ethical Clearance

A cross-sectional study was conducted on 214 children aged 36–45 months in Kupang and North Kodi, East Nusa Tenggara, Indonesia, from October to December 2021. The study protocol was approved by the Ethics Committee of the Research Institute of YARSI University, Jakarta, Indonesia, and registered at ClinicalTrials.gov with identifier number NCT05119218. The children's parents or caregivers provided oral and written informed consent and signed a letter of consent before the children were included in the study.

2.2. Fecal Analysis and Parasitological Diagnosis

The parents/caregivers were instructed to collect each child's stool and bring the stool specimen in a sterile container. All 200 collected stools were preserved in 10% formalin solution. The presence of parasites was detected via standard microscopy techniques (Olympus, Japan) using direct wet-mount smear methods, followed by staining with lugol solution, with six replications at the Laboratory of Malaria, Institute of Tropical Disease, Universitas Airlangga. The presence of eggs, larvae, trophozoites, or cysts was assessed for each type of helminth (*Trichuris trichiura*, Hookworm, *Ascaris lumbricoides*, and *Hymenolepis diminuta*) and protozoa (*Entamoeba histolytica*, *Entamoeba coli*, *Giardia lamblia*, and *Blastocystis*) spp., respectively. Positive parasitic infection was recorded by examining each prepared slide in which one or more parasites were detected. Mono-parasitic infection was defined as the presence of either one protozoan or one helminthic parasite in one child. Poly-parasitic infection was defined as (1) >1 positive protozoan parasites; (2) >1 helminthic parasites; and (3) mixed infection with both intestinal protozoan and helminthic parasites detected in one child.

2.3. Anthropometry

Height was measured using a wall stadiometer (Seca 208; precision, 0.1 cm) with the child's head positioned according to the Frankfurt plane by trained nurses and general practitioners. Z-scores of height-for-age were calculated using the WHO AnthroPlus software provided by the World Health Organization, Geneva, Switzerland, in 2007 [11]. The height-for-age was classified as severely stunted (height for age < –3SD); stunted (–3SD to <–2SD); and normal (–2SD to +3SD). For analysis, the subjects were divided into the stunted group (if the subjects were severely stunted and stunted) and the normal group.

2.4. Subject Characteristics

A structured questionnaire was administered by two pediatricians, four general practitioners, nurses, laboratory technicians, and a community health care worker for face-to-face interviews with the respective child's mother or caregiver, in order to collect sociodemographic information and hygiene practices. The independent variables were gender, locus of the rural (North Kodi) and urban (Kupang) area, mother's education and occupation, family income, history of low birth weight, history of intake of deworming drugs in the last 6 months, family size, source of drinking water, type of sanitation facility, handwashing practice (before eating and after defecation), and handwashing facilities. Family size referred to the number of persons in the family and was categorized as small (<6 members), medium (6–8 members), and large (>8 members). Sanitation facility was defined as one that hygienically separates human feces from human contact and was categorized into a latrine with and without a septic tank. The mother's education was divided into educated (elementary school, junior high school, senior high school, and university graduate) and uneducated. Family income was considered based on the regional minimum wage in each city and classified as lower than the regional minimum wage and equal to or greater than the regional minimum wage. The source of drinking water was divided into clean water (from mineral water, spring, tap water, and dug well) and unclear water (rainwater collection). Handwashing facilities were either fixed or mobile and included a sink with tap water and other models designated for handwashing.

2.5. Statistical Analyses

The data are presented as numbers and percentages for descriptive data. The chi-square and Fisher's exact tests were used to assess differences in sociodemographic factors and hygiene practices between North Kodi and Kupang, as well as between stunted and normal children in categorical data. A univariate analysis was used to determine the odds ratio with the 95% confident interval of each variable that affected intestinal parasitic infection among children aged 36–45 months. Significance was set at $p < 0.05$. All statistical analyses were performed using the statistical program for social science (SPSS) Version 20.0 for Windows (SPSS Inc., Chicago, IL, USA).

3. Results

Intestinal Parasitic Infection and Risk Factors in 36–45-Month-Old Children in East Nusa Tenggara, Indonesia

This study included 214 children, and 200 stool samples were collected to analyze the parasitic infection status and its risk factors. The flow chart of this study is shown in Figure 1. Children with incomplete stool sample data were excluded from the study. Supplementary Data 1–3 show the demographic picture of Kupang and North Kodi. Kupang is a more densely populated urban area, whereas North Kodi is a rural area with mountains, hills and different types of housing compared with Kupang. A total of 30.5% (61/200) of the children were infected with intestinal parasites in this study, with 67.2% (41/61) of the cases being mono-parasitic infections and 32.8% (20/61) being poly-parasitic infections. Eighty-five intestinal parasites were detected in total, with 35.3% (30/85) being protozoan and 64.7% (55/85) being helminthic infections. *Giardia lamblia* (43%; 13/30) was the predominant protozoan parasite (Figure 2), whereas *Trichuris trichiura* (50.9%; 28/55) and *Ascaris lumbricoides* (43.6%; 24/55) were the predominant helminthic parasites (Figure 3) detected here.

Among children with mono-parasitic infection, 39% (16/41) had protozoan infection and 61% (25/41) had helminthic infection. *Giardia lamblia* and *Blastocystis* spp. were the most commonly detected parasites in protozoan mono-parasitic infection (50%; 8/16 and 25%; 4/16 of children, respectively). In turn, *Trichuris trichiura* and *Ascaris lumbricoides* were the most frequently detected parasites in children with helminthic mono-parasitic infection (44%; 11/25). In children with poly-parasitic infection, 10% (2/20) were infected with >1 protozoan, 50% (10/20) with >1 helminthic, and 40% (8/20) had mixed infections (both intestinal protozoan and helminthic parasites). Two children with >1 positive protozoa were detected to have *Entamoeba coli–Blastocystis* spp. and *Entamoeba coli–Giardia lamblia.* All children with >1 helminth infections were detected to have *Ascaris lumbricoides–Trichuris trichiura.* For mixed infection, two (25%) children were detected to have *Ascaris lumbricoides–Trichuris trichiura–Blastocystis* spp.; two (25%) with *Trichuris* *trichiura–Giardia lamblia–Blastocystis* spp.; two (25%) with *Trichuris trichiura–Giardia lamblia*; one (12.5%) with *Trichuris trichiura–Blastocystis* spp.; and one (12.5%) with *Ascaris lumbricoides–Entamoeba coli*. The microscopic findings of *Giardia lamblia*, *Entamoeba coli*, and *Blasocystis* spp. are depicted in Supplementary Data 4, 5, and 6.

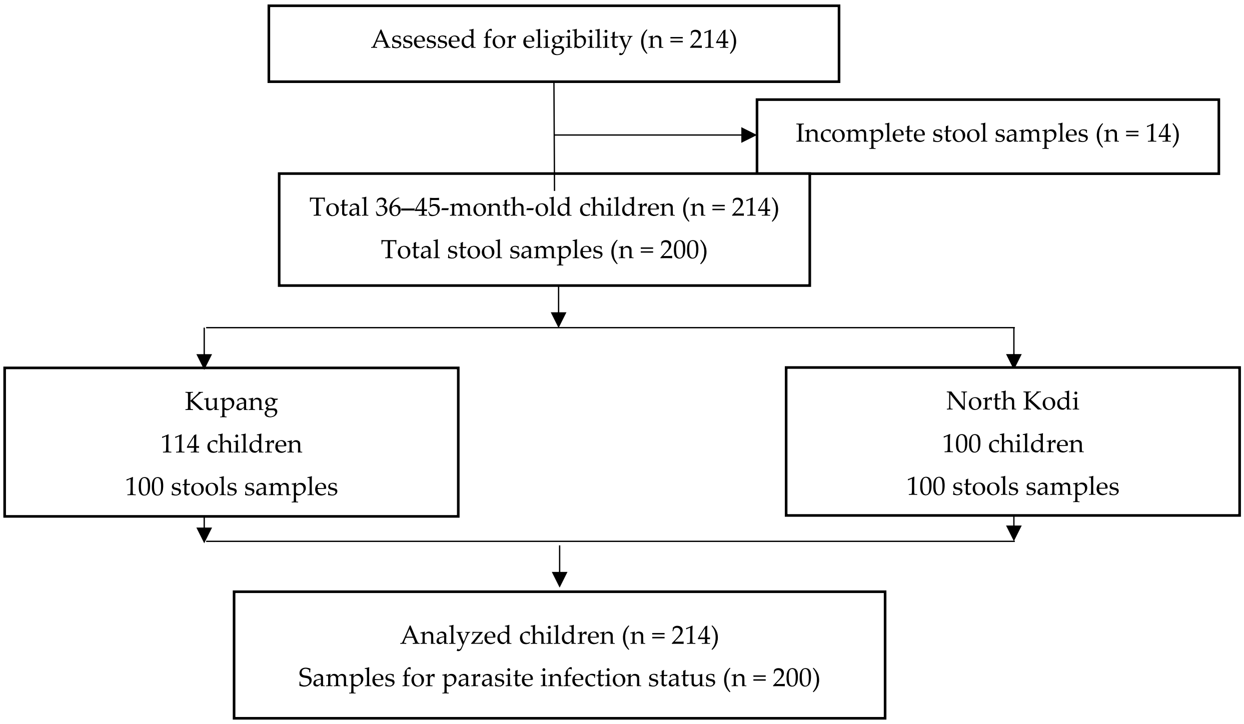

Figure 1. Flow diagram of this study.

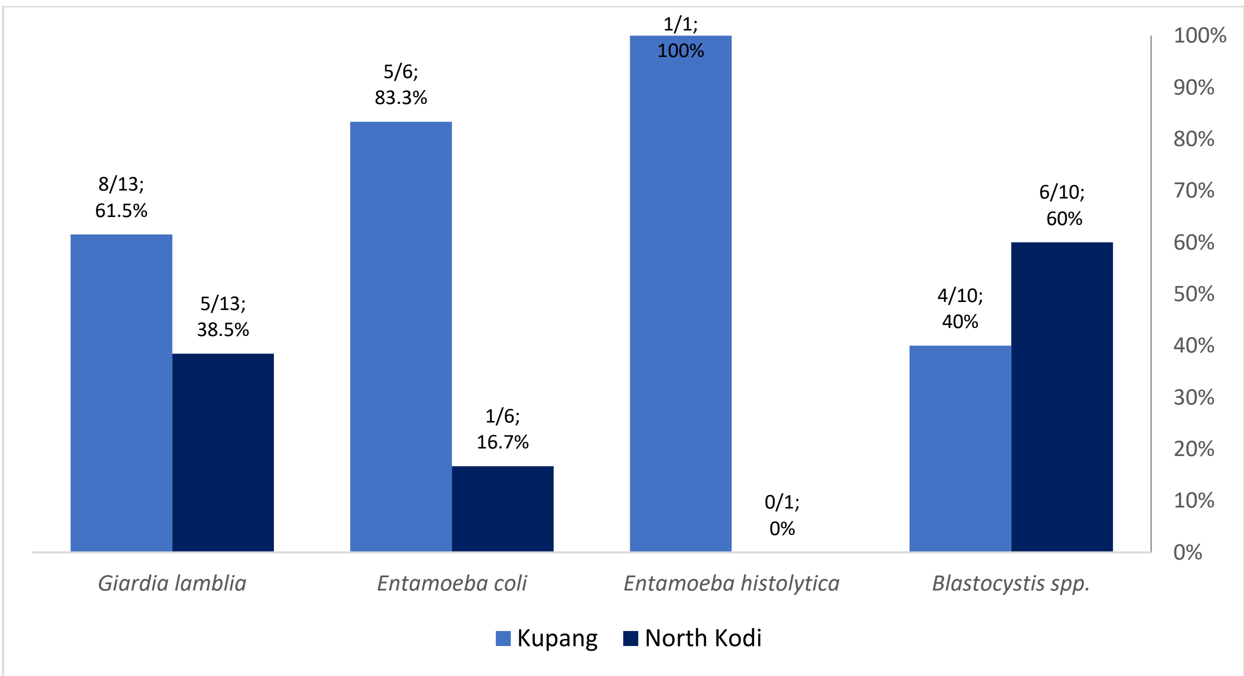

Figure 2. Intestinal protozoan distribution in Kupang and North Kodi, East Nusa Tenggara; n = 30 children. *Giardia lamblia* was detected in a total of 13 children; *Entamoeba coli* was detected in a total of 6 children; *Entamoeba histolytica* was detected in a total of 1 child; *Blastocystis* spp. was detected in a total of 10 children (one child had ≥1 protozoan parasites).

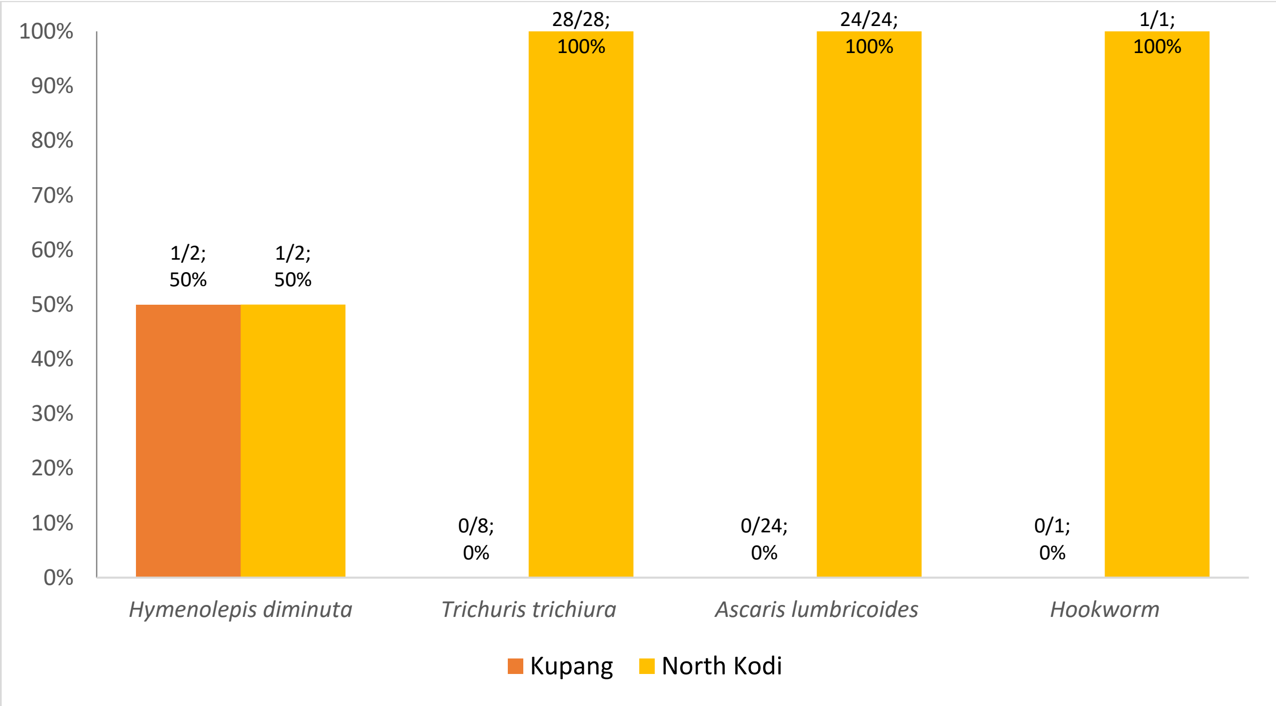

Figure 3. Intestinal helminthic distribution in Kupang and North Kodi, East Nusa Tenggara; n = 51 children. *Hymenolepis diminuta* was detected in a total of 2 children; *Trichuris trichiura* was detected in a total of 28 children; *Ascaris lumbricoides* was detected in a total of 24 children; *Hookworm* was detected in a total of 1 child (one child had $\geq$1 helminthic parasites).

More protozoa were detected in children from Kupang (60%; 18/30), whereas more helminths were detected in children from North Kodi (98.2%; 54/55) (Figures 2 and 3). *Entamoeba histolytica* (100%; 1/1), *Entamoeba coli* (83.3%; 5/6), and *Giardia lamblia* (61.5%; 8/13) were more frequent in Kupang children, whereas helminthic infection was exclusively caused by *Hymenolepis diminuta*. *Blastocystis* spp. (60%; 6/10) was the predominant pathogen among the protozoan infections recorded in North Kodi. All *Trichuris trichiura*, *Ascaris lumbricoides*, and Hookworm infections were detected in North Kodi (Figures 2 and 3). The majority of stunted children had intestinal protozoan (93.3%; 28/30) and helminthic (69.1%; 38/55) infection. *Giardia lamblia* was the predominant intestinal protozoa in stunted children (42.9%; 12/30), followed by *Blastocystis* spp. (33.3%; 10/30) (Figure 4). *Trichuris trichiura* was the predominant intestinal helminth (38.2%; 21/55), followed by *Ascaris lumbricoides* (25.5%; 14/55) (Figure 5).

The univariate analysis revealed that living in a rural area, lack of treatment with deworming drugs, a latrine without a septic tank, unclean water as the source of drinking water, no handwashing practice after defecation, and stunted children were risk factors for intestinal parasitic infection in this study (Table 1). Significant differences in the education level of the mother, family income, deworming status, source of drinking water, type of sanitation facility, handwashing practice (before eating as well as after defecation), and handwashing facility ($p < 0.05$) were observed between children from Kupang and those from North Kodi. Other characteristics are described in Table 2. A history of low birth weight, no deworming, drinking unclean water, using a latrine without a septic tank, and no handwashing practice (before eating and after defecation) were significantly different in stunted children compared with normal children ($p < 0.05$) (Table 3).

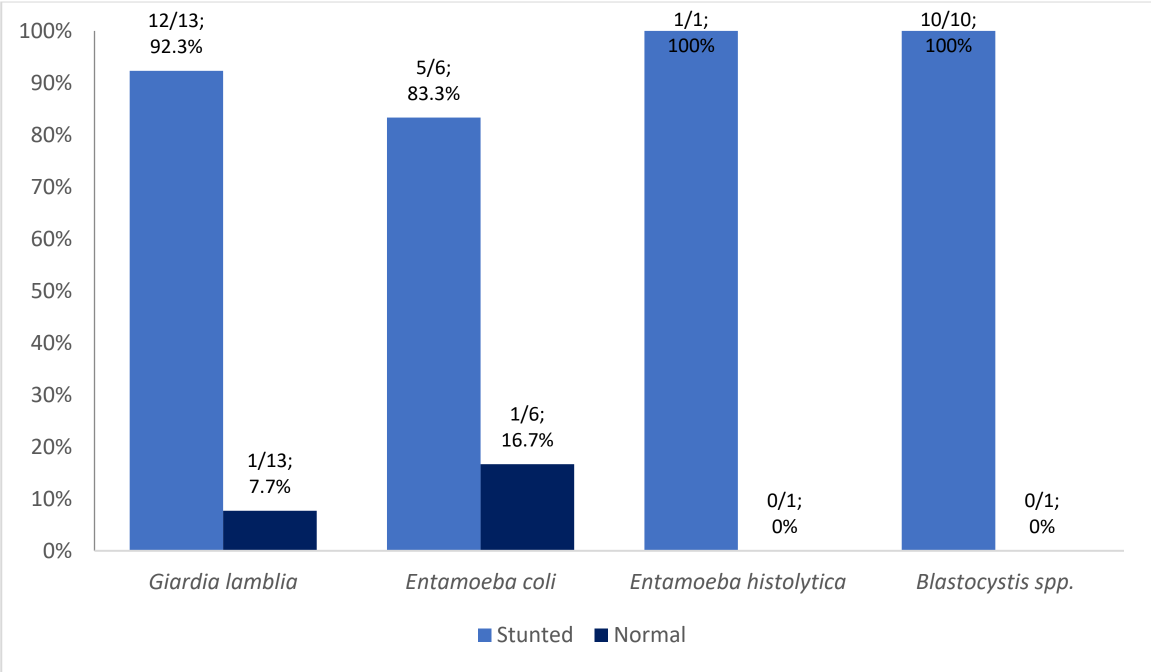

Figure 4. Intestinal protozoan distribution in stunted and normal children in East Nusa Tenggara; n = 30 children. *Giardia lamblia* was detected in a total of 13 children; *Entamoeba coli* was detected in a total of 6 children; *Entamoeba histolytica* was detected in a total of 1 child; *Blastocystis* spp. was detected in a total of 10 children (one child had ≥1 protozoan parasites).

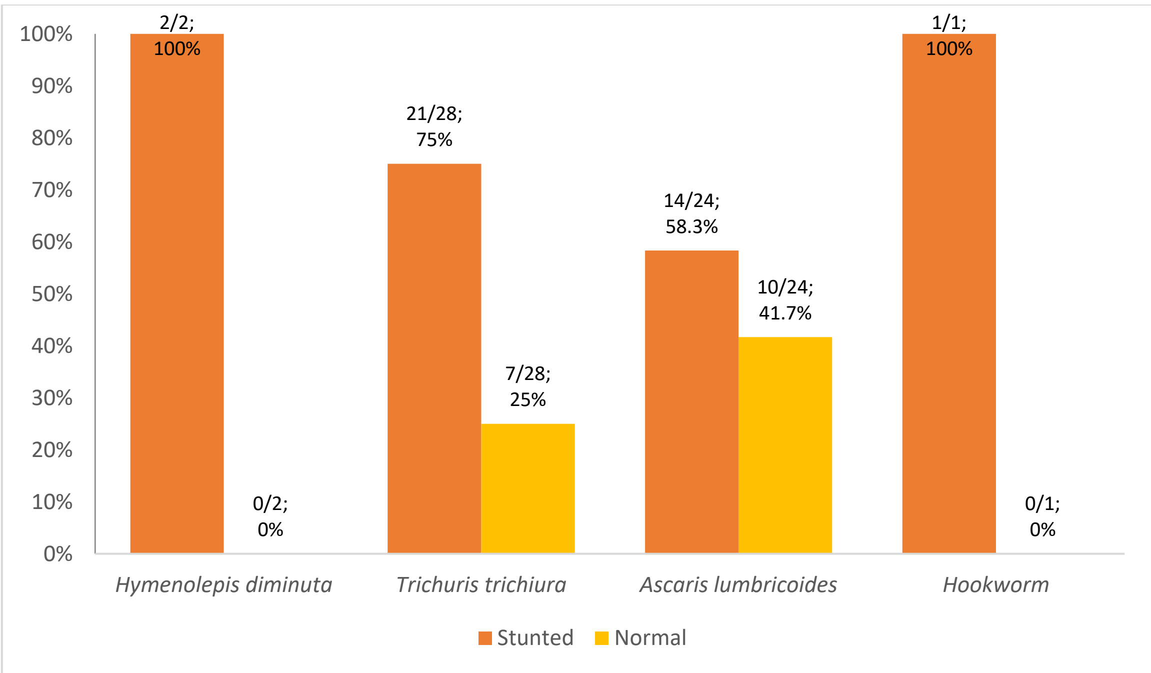

Figure 5. Type of helminthic in stunted and normal children in East Nusa Tenggara; n = 51 children. *Hymenolepis diminuta* was detected in a total of 2 children; *Trichuris trichiura* was detected in a total of 28 children; *Ascaris lumbricoides* was detected in a total of 24 children; *Hookworm* was detected in a total of 1 child (one child had ≥1 helminthic parasites).

Table 1. Univariate analysis of intestinal parasitic infection risk factors among children aged 36–45 months in Kupang and North Kodi, East Nusa Tenggara Timur, Indonesia.

Risk Factors	Intestinal Parasitic Infection		*p* Value *	OR (95% CI)
	Infected n (%)	Not Infected n (%)		
Gender				
Boy	33 (35.5)	60 (64.5)	0.203	1.5 (0.8–2.8)
Girl	28 (26.2)	79 (73.8)		
Locus				
Rural area	44 (44)	56 (56)	0.0001	3.8 (2.0–7.4)
Urban area	17 (17)	83 (83)		
Family size				
>8 members	10 (45.5)	12 (54.5)	0.171	2.1 (0.8–5.1)
≤8 members	51 (28.7)	127 (71.3)		
Mother's education (n = 198)				
Uneducated	14 (45.2)	17 (54.8)	0.094	2.1 (1.0–4.6)
Educated	47 (28.1	120 (71.9)		
Mother's occupation (n = 194)				
Unemployed	47 (31.1)	104 (68.9)	0.609	1.3 (0.6–2.8)
Employed	11 (25.6)	32 (74.4)		
Family income (n = 192)				
<Regional minimum wage	45 (30.2)	104 (69.8)	0.692	1.3 (0.6–2.7)
≥Regional minimum wage	11 (25.6)	32 (74.4)		
Low birth weight (n = 181)				
Yes	11 (36.7)	19 (63.3)	0.406	1.6 (0.7–3.5)
No	41 (27.2)	110 (72.8)		
Deworming				
No	23 (44.2)	29 (55.8)	0.020	2.3 (1.2–4.4)
Yes	38 (25.7)	110 (74.3)		
Type of sanitation facility				
Latrine without septic tank	21 (58.3)	15 (41.7)	0.0001	4.3 (2.0–9.2)
Latrine with septic tank	40 (24.4)	124 (75.6)		
Source of drinking water				
Unclean water	24 (54.5)	20 (45.5)	0.0001	3.89 (2.0–7.8)
Clean water	37 (23.7)	119 (76.3)		
Handwashing before eating				
No	10 (35.7)	18 (64.3)	0.671	1.3 (0.6–3.1)
Yes	51 (29.7)	121 (70.3)		
Handwashing after defecation				
No	14 (51.9)	13 (48.1)	0.018	2.9 (1.3–6.6)
Yes	47 (27.2)	126 (72.8)		
Stunted growth (n = 199)				
Yes	43 (43.0)	57 (57)	0.0001	3.4 (1.8–6.6)
No	18 (18)	82 (82)		
Handwashing facility				
No	5 (55.6)	4 (44.4)	0.194	3.0 (0.8–11.6)
Yes	56 (29.3)	135 (70.7)		
Total	100 (50)	100 (50)		

* Chi-squared test, significance set at $p < 0.05$.

Table 2. Sociodemographic and hygiene practice characteristics of children aged 36–45 months from Kupang and North Kodi, East Nusa Tenggara Timur, Indonesia.

Variables	Kupang n (%)	North Kodi n (%)	*p* Value *
Gender			
Boy	51 (50.5)	50 (50)	0.442
Girl	63 (55.8)	50 (50)	
Family size			
Small (<6 members)	71 (62.3)	55 (55)	0.473
Medium (6–8 members)	32 (28.1)	31 (31)	
Large (>8 members)	11 (9.6)	14 (14)	
Mother's education			
Uneducated	4 (3.5)	28 (28)	0.0001
Educated	110 (96.5)	72 (72)	
Mother's occupation (n = 208)			
Unemployed	91 (56.9)	69 (43.1)	0.071
Employed	20 (41.7)	28 (58.3)	
Family income (n = 206)			
<Regional minimum wage	93 (58.5)	66 (41.5)	0.044
≥Regional minimum wage	19 (40.4)	28 (59.6)	
Low birth weight (n = 195)			
Yes	18 (58.1)	13 (41.9)	1.000
No	96 (58.5)	68 (41.5)	
Deworming			
Yes	107 (93.9)	55 (55)	0.0001
No	7 (6.1)	45 (45)	
Source of drinking water			
Clean water	114 (100)	54 (54)	0.0001
Unclean water	0 (0)	46 (46)	
Type of sanitation facility			
Latrine with septic tank	77 (67.5)	18 (18)	0.0001
Latrine without septic tank	37 (32.5)	82 (82)	
Handwashing practice (before eating)			
Yes	110 (96.5)	76 (76)	0.0001
No	4 (3.5)	24 (24)	
Handwashing practice (after defecation)			
Yes	112 (98.2)	75 (75)	0.0001
No	2 (1.8)	25 (25)	
Handwashing facility			
Yes	113 (99.1)	92 (92)	0.014
No	1 (0.9)	8 (88.9)	
Height for age status			
Stunted	49 (43)	52 (52)	0.187
Normal	65 (57)	48 (48)	
Total	114 (53.3)	100 (46.7)	

* Chi-squared test, significance set at $p < 0.05$.

Table 3. Socio-demographic and hygiene practice characteristics of stunted and normal children aged 36–45 months in East Nusa Tenggara Timur, Indonesia.

Variables	Stunted n (%)	Normal n (%)	*p* Value *
Gender			
Boy	48 (47.5)	53 (46.9)	0.927
Girl	53 (52.5)	60 (53.1)	

Table 3. *Cont.*

Variables	Stunted n (%)	Normal n (%)	*p* Value *
Family size			
Small (<6 members)	63 (62.4)	63 (55.8)	0.449
Medium (6–8 members)	18 (21.8)	28 (36.3)	
Large (>8 members)	20 (15.8)	22 (8)	
Mother's education level			
Uneducated	16 (15.8)	16 (14.2)	0.730
Educated	85 (84.2)	97 (85.8)	
Mother's occupation (n = 208)			
Unemployed	77 (48.1)	83 (51.9)	0.909
Employed	22 (45.8)	26 (54.2)	
Family income (n = 206)			
<Regional minimum wage	76 (47.8)	83 (52.2)	0.834
≥Regional minimum wage	21 (44.7)	26 (55.3)	
Low birth weight (n = 195)			
Yes	21 (67.7)	10 (32.3)	0.015
No	69 (42.1)	95 (57.9)	
Deworming			
Yes		93 (82.3)	0.017
No	32 (31.7)	20 (17.7)	
Source of drinking water			
Clean water	73 (72.3)	95 (84.1)	0.036
Unclean water	28 (27.7)	18 (15.9)	
Type of sanitation facility			
Latrine with septic tank	30 (29.7)	65 (57.5)	0.0001
Latrine without septic tank	71 (70.3)	48 (42.5)	
Handwashing practice (before eating)			
Yes	82 (81.2)	104 (92)	0.019
No	19 (18.8)	9 (8)	
Handwashing practice (after defecation)			
Yes	83 (82.2)	104 (92)	0.030
No	18 (17.8)	9 (8)	
Handwashing facility			
Yes	94 (45.9)	111 (54.1)	0.060
No	7 (77.8)	2 (22.2)	
Locus			
Urban area	49 (43)	65 (57)	0.187
Rural area	52 (52)	48 (48)	
Total	114 (53.3)	100 (46.7)	

* Chi-squared test, significance was set at $p < 0.05$.

4. Discussion

The most common protozoa detected in all stool samples was *Giardia lamblia*, followed by *Blastocystis* spp. This result is in line with a study reported by Maru et al. in Ethiopia; among 235 infected children, the most prevalent parasite was *Giardia lamblia* (20%) [12]. Moreover, a study performed by Diarthini in Karangasem (Bali, Indonesia) reported that the prevalence of *Blastocystis* spp. in elementary school children was 33% (35/103), which was similar to the present study [13]. Both of those studies were conducted under geographic and socio-hygiene conditions that were similar to those of East Nusa Tenggara, which could explain the similar results. The most common helminth detected in this study was *Ascaris lumbricoides*, followed by *Trichuris trichiura*. *Ascaris lumbricoides* and *Trichuris trichiura* (whipworm) are soil-transmitted helminths (STHs) that are mostly found in tropical and subtropical areas [14–16]. A study performed by Pullan et al. in 118 countries revealed that both *Ascaris lumbricoides* and *Trichuris trichiura* were the predominant global STHs infection agents [6]. Wani et al. reported a similar prevalence in India. Among 2256 children, the prevalence of *Ascaris lumbricoides* was the highest (68.3%), followed by *Trichuris trichiura* (27.9%) [17]. Higher *Trichuris trichiura* and *Ascaris lumbricoides* rates were also found in a study reported by Sungkar et al. in Sumba, Indonesia. Among 88 children, the rate of *Trichuris trichiura* was 85.2%, whereas that of *Ascaris lumbricoides* was 71.6% [18].

In addition to mono-parasitic infection, we also found poly-parasitic infection in this study. *Blastocystis* spp. was the predominant protozoa involved in poly-parasitic infections. This result was in line with the study performed by Diarthini et al. in Karangasem, Bali, Indonesia. *Blastocystis* spp. is a predominant parasite in under-developed countries, especially in children. *Blastocystis* spp. is often found in poly-parasitic infections with *Giardia lamblia*, *E. histolytica,* and *E. coli*. Moreover, it is detected in mixed infection with Hookworm [13]. In turn, *Ascaris lumbicoides* and *Trichuris trichiura* are the predominant helminths involved in poly-parasitic infections. In endemic areas, especially in warm tropical and sub-tropical areas, poly-parasitic infections occur frequently and might result in the exacerbation of morbidity, as well as a greater intensity of infection. Both helminths are transmitted via the faecal–oral route, which, because the exposure is similar, leads to a positive association. Poly-parasitic infections have no specific gastrointestinal symptoms; therefore, affected children are often underdiagnosed. If left untreated, moderate-to-heavy poly-parasitic infection could lead to chronic effects on the growth of children [14,19].

The total prevalence of intestinal parasitic infections in rural areas is notably higher than that recorded in urban areas. North Kodi is a rural area located in Southwest Sumba, whereas Kupang is the capital city, i.e., an urban area, and the administrative center of East Nusa Tenggara [20,21]. The hygiene and sanitation practices and facilities in urban and rural areas are different. The source of drinking water, type of sanitation facility, handwashing practice, and handwashing facility in North Kodi were significantly inferior compared with Kupang. Poor personal hygiene, poor environmental sanitation, low social economy, and population density will lead to an increase in soil-transmitted helminth and protozoa infections through the soil [22,23]. A greater number of children and their parents had no handwashing facility and used a latrine without a septic tank in North Kodi. In another study reported by Mane et al., students in a rural area reported a higher percentage (37.7%) of non-availability of a place for handwashing inside the home compared with only 17.9% in an urban area [24]. Based on the research of Idowu et al., a greater number of respondents (parents) from a rural community used an open pit. This was followed by the practice of open defecation by 46.7% of the responders. In contrast, the majority of the parents or caregivers from an urban area (49.1%) reported that they throw their children's feces into a water closet after they use a potty [25].

Darlan et al. reported a strong relationship between personal hygiene practices and environmental sanitation and the incidence of soil-transmitted helminthic infection [26]. Another study from Apidechkul (North Thailand) performed among hill-tribe school children showed that drinking water contaminated by soil was an important risk factor for intestinal parasitic infection [27]. The practice of poor hygiene behaviors leads to a higher prevalence of soil contamination. The soil around rural areas is profoundly contaminated with parasite eggs stemming from the tendency to defecate without using a septic tank; soil-transmitted helminths require soil for immature stage development, in order to be transmitted to a host [28–30]. Unclean water as the source of drinking water remains a potential risk for helminthic infections not only because of direct ingestion, but also due to the consumption of unwashed fruits and vegetables or those that are improperly cooked [31].

Our study found that the deworming programs in the rural area were less frequent (55%) compared with the urban area. This was in line with a study reported by Sungkar et al. The rate of STH in 88 children in Sumba significantly decreased after deworming using Albendazole (from 95.4% to 53.4%) [18]. Deworming programs are routinely provided by the Indonesian Ministry of Health, with the distribution of Albendazole through primary healthcare or school-based deworming programs. Several lines of evidence suggest that these deworming drugs are used for public health intervention for preventing soil-transmitted helminth infection, with a lesser impact on protozoa. However, the outcome of this prevention strategy also depends on the environmental conditions and requires regular monitoring to observe the soil-transmitted helminths and the possibility of re-infection, which warrants the administration of an additional or adjusted dose of deworming drugs [32,33].

The lack of periodic evaluation of the nutritional status was one of the limitations of this study. Moreover, because some data were incomplete, the analyses were not performed using the same sample size. Finally, a PCR examination was not included as a diagnostic method for parasites; rather, wet staining and microscopic observation alone were used here. Conversely, the strength of this study was the employment of many types of variables, which allowed us to more precisely assess the risk of parasitic infection. The sample size was sufficient, and we compared samples from different geographic and social-hygiene conditions.

5. Conclusions

Mono-intestinal parasitic infections were most common in children aged 36-45 months in East Nusa Tenggara, Indonesia. Total intestinal protozoan infection was detected more in the urban area, Kupang, with *Giardia lamblia* and *Blastocystis* spp. being the predominantly detected pathogens. The total helminthic infection prevalence was higher in the rural area, North Kodi; the most-detected pathogen was *Ascaris lumbricoides*, followed by *Trichuris trichiura*. Poly-parasitic intestinal infection was observed in more than one-third of infected children. Living in a rural area, lack of treatment with deworming drugs, use of a latrine without a septic tank, unclean water as the source of drinking water, no handwashing practice after defecation, and stunted children were the risk factors for intestinal parasitic infection observed in this study. We urge routine deworming every 6 months, providing clean water by building a drill well, and educating the community with good personal hygiene practice. Further study is currently ongoing to prove the efficacy of these comprehensive and holistic treatments in eradicating the parasitic infection. The scientific evidence obtained in this study will be recommended to local government as public policy.

Supplementary Materials: The following supporting information can be downloaded at: https://www.mdpi.com/article/10.3390/tropicalmed8010045/s1, Supplementary Figure S1–S3 were taken from Google Earth©. Supplementary Figure S4–S6 were examined in the Laboratory of Malaria, Institute of Tropical Disease, Universitas Airlangga.

Author Contributions: I.S.S. was the principal investigator of the study. A.F.A., R.G.R., A.D., S.M.S. and K.V. participated in the study design. A.F.A. and A.D. supervised the data collection and analysis. S.B. and L.R. participated in the parasitology examination. I.S.S., A.F.A., A.D. and K.V. drafted the manuscript. All authors have read and agreed to the published version of the manuscript.

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Institutional Review Board Statement: The study was conducted in accordance with the Declaration of Helsinki, and approved by the Ethics Committee of the Research Institute of YARSI University, Jakarta, Indonesia (No: 332/KEP-UY/BIA/X/2021, October 12, 2021, and registered at ClinicalTrials.gov with identifier number NCT05119218 for studies involving humans.

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