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Epidemiology of Plasmodium and Helminth Coinfection and ...

However, the epidemiology of such coinfection and the implications of coinfection for children's health remain poorly understood. This study describes the epidemiology of *Ascaris lumbricoides*-*Plasmodium* and hookworm-*Plasmodium* coinfection among school children living in western Kenya and investigates the associated risk factors. Methods

Coinfection - Wikipedia

Coinfection with helminths affects around 800 million people worldwide. Coinfection is of particular human health importance because pathogen species can interact within the host. The net effect of coinfection on human health is thought to be negative. Interactions can have either positive or negative effects on other parasites.

Epidemiology of infections with zoonotic pig parasites in ...

We examine coinfection between helminth species and the bacterium *Leptospira interrogans* in a natural population of the Norway rat, *Rattus norvegicus*. We ask whether coinfection can influence the probability and intensity of infection of these enzootic and zoonotic parasites in urban rats, which may affect the loads of parasites excreted into

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the environment.

Epidemiology and control of human gastrointestinal ...

Epidemiology of coinfection with soil transmitted helminths and Plasmodium falciparum among school children in Bumula District in western Kenya. Parasites & Vectors, Jun 2015 Stella Kepha, Fred Nuwaha, Birgit Nikolay, Paul Gichuki, Tansy Edwards, ...

Epidemiology Of Coinfection With Parasites

Many school children living in Africa are infected with plasmodia and helminth species and are consequently at risk of coinfection. However, the epidemiology of such coinfection and the implications of coinfection for children's health remain poorly understood. This study describes the epidemiology of Ascaris lumbricoides-Plasmodium and hookworm-Plasmodium coinfection among school children ...

Coinfection modifies carriage of enzootic and zoonotic ...

Coinfection is the simultaneous infection of a host by multiple pathogen species. In virology, coinfection includes simultaneous infection of a single cell by two or more virus particles. An example is the coinfection of liver cells with hepatitis B virus and hepatitis D virus, which can arise

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incrementally by initial infection followed by superinfection. ...

Anemia epidemiology, pathophysiology, and etiology in low ...

Molecular Epidemiology of Blood-Borne Human Parasites in a Loa loa-, Mansonella perstans-, ... dual infections have been observed in Cameroon, 18 Congo, 19 Gabon, 20, 21 and Nigeria, 22 and L. loa-Onchocerca volvulus coinfection has been described in Cameroon. 23, 24 Concomitant infections with three ...

Molecular Epidemiology of Blood-Borne Human Parasites in a ...

Epidemiology of coinfection with soil transmitted helminths and Plasmodium falciparum among school children in Bumula District in western Kenya Stella Kepha^{1,2*}, Fred Nuwaha¹, Birgit Nikolay³, Paul Gichuki², Tansy Edwards³, Elizabeth Allen³, Sammy M. Njenga², Charles S. Mwandawiro² and Simon J Brooker^{3,4*} Abstract

Epidemiology of coinfection with soil transmitted ...

Sigma-Aldrich offers abstracts and full-text articles by [Stella Kepha, Fred Nuwaha, Birgit Nikolay, Paul Gichuki, Tansy Edwards, Elizabeth Allen, Sammy M Njenga, Charles S Mwandawiro, Simon J Brooker].

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Review Article Epidemiology of Plasmodium and Helminth ...

Both parasites (cysticerci and Ascaris) ... S. Handali, R.J. TraubThe epidemiology of porcine Taenia solium cysticercosis in communities of the Central Highlands in Vietnam. Parasite Vector (2018), 10.1186/s13071-018-2945-y. Google Scholar. Njoga et al., 2018.

(PDF) Epidemiology of coinfection with soil transmitted ...

BackgroundMany school children living in Africa are infected with plasmodia and helminth species and are consequently at risk of coinfection. However, the epidemiology of such coinfection and the implications of coinfection for children's health remain poorly understood. This study describes the epidemiology of Ascaris lumbricoides- Plasmodium and hookworm-Plasmodium coinfection among school ...

Epidemiology of Plasmodium and Helminth Coinfection and ...

Anemia epidemiology, pathophysiology, ... the species of hookworm, and (3) whether there is coinfection with multiple parasites.

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Moderate? and heavy?intensity hookworm infections are associated with lower Hb in ... The special issue is the responsibility of the editorial staff of Annals of the New York Academy of Sciences, ...

Epidemiology of coinfection with soil transmitted ...

Reviews of coinfection have emphasised that coinfection requires further research, especially in humans,^{2,3,20,22} where coinfection outnumbers single infection in many communities^{2,23} and where helminth coinfections appear to worsen human health.²⁰ Coinfection involves a range of pathogens and can have various effects on coinfecting hosts.³ There are many individual studies concerning ...

Epidemiology of coinfection with soil transmitted ...

1. Introduction. Although the nature of interaction remains uncertain, studies showed that an apparently true biological association exists between Plasmodium and helminths when they coexist in a host [1, 2].Hence, the presence of helminth can affect the risk of malaria and severity of the disease; or the occurrence of Plasmodium infection may in turn impact the upcoming helminth infections ...

Epidemiology of coinfection with soil transmitted ...

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Epidemiology of coinfection with soil transmitted helminths and Plasmodium falciparum among school children in Bumula District in western Kenya Article (PDF Available) in Parasites & Vectors 8(1 ...

Epidemiology of coinfection with ... - Parasites & Vectors

Epidemiology of coinfection with soil transmitted helminths and Plasmodium falciparum among school children in Bumula District in western Kenya. ... Parasite densities were determined from thick blood smears by counting the number of asexual parasites per 200 white blood cells, assuming a white blood cell count of 8,000/?l.

The nature and consequences of coinfection in humans

Understanding the impact of helminth infections on clinical malaria is useful for designing effective malaria control strategies. Plenty of epidemiological studies have been conducted to unravel the nature of interactions between Plasmodium and helminth infection. Careful broad summarization of the existing literature suggests that > Schistosoma mansoni</i> and hookworm infections may increase ...

Epidemiology of coinfection with soil transmitted ...

Global epidemiology. GI parasites are infectious diseases of poverty. Thus, while

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still found in North America and Europe, their prevalence is highest in areas of intense poverty in low- and middle-income countries in the tropical and subtropical regions of SSA, Asia and LAC [2,3,22-26]. In North America and Europe, these infections are most prevalent within immigrant and refugee communities ...

Epidemiology of coinfection with soil transmitted ...

Review Article Epidemiology of Plasmodium and Helminth Coinfection and Possible Reasons for Heterogeneity Abraham Degarege and Berhanu Erko Aklilu Lemma Institute of Pathobiology, Addis Ababa University, P.O. Box, Addis Ababa, Ethiopia Correspondence should be addressed to Abraham Degarege; abrahamdegarege@yahoo.com

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