

REVIEW

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Environmental and socio-economic determinants of malaria transmission in West Africa: a systematic review

Gouvidé Jean Gbaguidi^{1,2,3,4*}, Nikita Topanou², Walter Leal Filho³, Komi Begeiou³ and Guillaume K. Ketoh⁴

Abstract

Background Malaria remains one of the greatest issues in sub-Saharan Africa.

Methods This study aimed to identify the socio-economic and environmental determinants influencing the transmission of malaria and its incidence in West Africa. A systematic review was conducted using articles published from January 1989 to April 2025, within PubMed and Directory of Open Access Journals (DOAJ) databases. A total of 1145 articles related to our topic were found in the PubMed database, and 125 articles were identified in the DOAJ database. After inclusion and exclusion criteria, 68 articles were selected from both databases.

Results The results indicate that among the environmental determinants, air temperature, rainfall, relative humidity, and vegetation are the most common environmental factors that predict malaria transmission. Moreover, education level, place of residence, housing structure, poverty, and quality of information are the key socio-economic determinants to consider in the prediction of malaria.

Conclusion These factors can be indicators for target programmes for the elimination and prevention of the infection of malaria in West Africa.

Keywords Malaria, Transmission, Environmental factors, Socio-economic factors, Determinants, West Africa.

Background

Malaria is an endemic and a severe health problem in sub-Saharan Africa [25]. High mortality rates continue to be a significant public health concern in sub-Saharan Africa [56, 62]. Malaria prevalence in the World Health Organization (WHO) African Region in 2023 was estimated at 263 million cases, accounting for about 94% of cases worldwide. In 2023, there was an increase of 11 million cases, resulting in an incidence of 60.4 cases per 1,000 population at risk, compared to 58.6 cases per 1,000 individuals at risk in 2022 [70].

Malaria is a climate sensitive vector-borne disease, including a number of hydro climatological, biological, socio-economic, and environmental processes [17, 21]. The complexity of malaria determinants makes it difficult

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Understanding West Africa's Ebola Epidemic Ibrahim Abdullah, Ismail Rashid, 2017-10-15 From 2013 to 2015 over 11 000 people across West Africa lost their lives to the deadliest outbreak of the Ebola virus in history Crucially this epidemic marked the first time the virus was able to spread beyond rural areas to major cities overturning conventional assumptions about its epidemiology With backgrounds ranging from development to disease control the contributors to this volume some of them based in countries affected by the Ebola epidemic consider the underlying factors that shaped this unprecedented outbreak While championing the heroic efforts of local communities and aid workers in halting the spread of the disease the contributors also reveal deep structural problems in both the countries and humanitarian agencies involved which hampered the efforts to contain the epidemic Alarming they show that little has been learned from these events with health provision remaining underfunded and poorly equipped to deal with future outbreaks Such issues they argue reflect the wider challenges we face in tackling epidemic disease in an increasingly interconnected world

Teacher Education at the Edge Tonya Huber, James G. O'Meara, 2019-12-01 International Education Inquiries is a book series dedicated to realizing the global vision of Education 2030 This vision involves ensuring inclusive and equitable quality education and promoting lifelong learning opportunities for all The founding editors seek to provide a forum for the diverse voices of scholars and practitioners from across the globe asking questions about transforming the vision of Education 2030 into a reality Published chapters will reflect a variety of formats free of methodological restrictions involving disciplinary as well as interdisciplinary inquiries We expect the series will be a leading forum for pioneers redefining the global discussion about the people places and perspectives shaping Education 2030 outcomes Education 2030 topics of interest include but are not limited to Improving access to quality early childhood development care and pre primary education Ensuring equal access for all women and men to affordable and quality education Increasing the number of youth and adults who have skills relevant for sustainable living and livelihoods Ensuring equal access for the vulnerable including persons with disabilities indigenous peoples and children in vulnerable situations Achieving levels of literacy and numeracy required to engage in communities and employment Acquiring the knowledge and skills needed to promote sustainable development including Human right Gender equality Promotion of a culture of peace and non violence Global citizenship education The appreciation of cultural diversity and of culture s contributions to sustainable development Providing safe non violent inclusive and effective learning environments for all Recruiting preparing supporting and retaining quality teachers

Factors contributing to academic performance of students in a Junior High School Anthony Abaidoo, 2018-11-22 Bachelor Thesis from the year 2018 in the subject Pedagogy School System Educational and School Politics grade 5 GHA System University of Education Distance Learning course Post Graduate Diploma in Education language English abstract Students academic performance is a key feature in education This study was therefore conducted primarily to assess the factors contributing to improvement in academic

performance of Junior High Students JHS in a Basic School which is in the Gomo East District in the Central Region of Ghana. The mixed and descriptive research design was used and a sample size of 87 respondents (79 students and 8 teachers) were selected through random sampling technique. The findings revealed that the average academic performance (47.0%) of the JHS students in the Basic School is weak and their performance in Mathematics (average score of 31.48%) and English Language (average score of 39.99%) is a fail. It was noticed that student factors that contribute to an improvement in academic performance include regular studying, self-motivation, punctuality, and regular class attendance, hard work, and interest in a subject. The teacher factors were completion of syllabus, use of TLMs, frequent feedback to students, and given students special attention. Per the findings, parent factors which was very key was parent showing concern in their children's academics and providing them their academic needs. School factors that were significant included availability of text books and TLMs. The study also found that parent level of education and gender has a positive relationship with academic performance but it is insignificant. However, age has a positive significant 5% significance level relationship with academic performance. Based on findings, the study recommends that there should be strict monitoring on teachers to vary their teaching methods to suit their needs of the students and also to provide the students with constant feedback on their academic performance. Again, the students should be motivated and orientated to take ownership of their studies by having regular studies and attending school during school days.

Learning, Design, and Technology J. Michael Spector, Barbara B. Lockee, Marcus D. Childress, 2023-10-14. The multiple related fields encompassed by this Major Reference Work represent a convergence of issues and topics germane to the rapidly changing segments of knowledge and practice in educational communications and technology at all levels and around the globe. There is no other comparable work that is designed not only to gather vital current and evolving information and understandings in these knowledge segments but also to be updated on a continuing basis in order to keep pace with the rapid changes taking place in the relevant fields. The Handbook is composed of substantive 5 000 to 15 000 words, peer-reviewed entries that examine and explicate seminal facets of learning theory, research, and practice. It provides a broad range of relevant topics including significant developments as well as innovative uses of technology that promote learning performance and instruction. This work is aimed at researchers, designers, developers, instructors, and other professional practitioners.

The Impacts of Language and Literacy Policy on Teaching Practices in Ghana Philomena Osseo-Asare, 2021-03-15. This text critically examines changes in Ghanaian language and literacy policy following independence in 1957 to consider its impacts on early literacy teaching. By adopting a postcolonial theoretical perspective, the text interrogates the logic behind policy changes which have prioritised English local language or biliteracy. It draws on data from interviews with teachers and researcher observation to demonstrate how policies have influenced teaching and learning. Dr Osseo-Asare's findings inform the development of a conceptual framework which highlights the socio-cultural factors that impact the literacy and biliteracy of young children in Ghana, offering

solutions to help teachers combat the challenges of frequent policy changes This timely monograph will prove to be an essential resource not only for researchers working on education policies teacher education and English language learning in postcolonial Ghana but also for those looking to identify the thematic and methodological nuances of studying literacy and education in postcolonial contexts *Greening Industrialization in Sub-Saharan Africa* Ralph Luken,Edward Clarence-Smith,2020-04-21 This book explores the concept of greening industrialisation and issues and considerations surrounding it through the lens of Sub Saharan Africa The book critically examines the concept of greening industrialisation and describes the progress and data challenges of monitoring the Sustainable Development Goals confronting African countries The chapters summarise the policy and programme literature focused on eight policy regimes essential for greening industrialisation and identify opportunities for greening industrial policies The authors lay out a research agenda that would inform enable and support greening industrialisation in Sub Saharan Africa and provide an overview of green industrial plans that include climate strategies energy efficiency strategies and green industry assessments This book will be of great interest to students scholars policy makers and planners in the fields of Sub Saharan African development and African environmentalism **Junior Graphic** Mavis Kitcher (Mrs),2014-07-23 *Adaptation to Climate Change and Variability in Rural West Africa* Joseph A. Yaro,Jan Hesselberg,2016-04-12 This book presents conceptual and empirical discussions of adaptation to climate change variability in West Africa Highlighting different countries experiences in adaptation by different socio economic groups and efforts at building their adaptive capacity it offers readers a holistic understanding of adaptation on the basis of contextual and generic sources of adaptive capacity Focusing on adaptation to climate change variability is critical because the developmental challenges West Africa faces are increasingly intertwined with its climate history Today climate change is a major developmental issue for agrarian rural communities with high percentages of the population earning a living directly or indirectly from the natural environment This makes them highly vulnerable to climate driven ecological change in addition to threats in the broader political economic context It is imperative that rural people adapt to climate change but their ability to successfully do so may be limited by competing risks and vulnerabilities As such elucidating those vulnerabilities and sources of strength with regard to the adaptive capacities needed to support successful adaptation and avoid maladaptation is critical for future policy formulation Though the empirical discussion is geographically based on West Africa its applicability in terms of the processes structures needs strategies and recommendations for policy transcends the region and provides useful lessons for understanding adaptation broadly in the developing world **Modern Mathematics** Dirk De Bock,2023-03-08 The international New Math developments between about 1950 through 1980 are regarded by many mathematics educators and education historians as the most historically important development in curricula of the twentieth century It attracted the attention of local and international politicians of teachers and of parents and influenced the teaching and learning of mathematics at all levels kindergarten to college

graduate in many nations After garnering much initial support it began to attract criticism But as Bill Jacob and the late Jerry Becker show in Chapter 17 some of the effects became entrenched This volume edited by Professor Dirk De Bock of Belgium provides an outstanding overview of the New Math modern mathematics movement Chapter authors provide exceptionally high quality analyses of the rise of the movement and of subsequent developments within a range of nations The first few chapters show how the initial leadership came from mathematicians in European nations and in the United States of America The background leaders in Europe were Caleb Gattegno and members of a mysterious group of mainly French pure mathematicians who since the 1930s had published under the name of a fictitious Nicolas Bourbaki In the United States there emerged during the 1950s various attempts to improve U S mathematics curricula and teaching especially in secondary schools and colleges This side of the story climaxed in 1957 when the Soviet Union succeeded in launching Sputnik the first satellite Undoubtedly this is a landmark publication in education The foreword was written by Professor Bob Moon one of a few other scholars to have written on the New Math from an international perspective The final epilogue chapter by Professor Geert Vanpaemel a historian draws together the overall thrust of the volume and makes links with the general history of curriculum development especially in science education including recent globalization trends

Pregnant in the Time of Ebola David A. Schwartz,Julienne Ngoundoung Anoko,Sharon A. Abramowitz,2019-01-02 This comprehensive account of the deadliest Ebola outbreak in history examines its devastating effects on West Africa s most vulnerable populations pregnant women and children Noted experts across disciplines assess health care systems responses to the epidemic in Liberia Guinea and Sierra Leone emphasizing key areas such as pregnancy prenatal services childbirth neonatal care and survivor health among pregnant and non pregnant women The 30 chapters hone in on gender based social issues exacerbated during the outbreak from violence against women and girls to barriers to female education At the same time chapters pinpoint numerous areas for service delivery and policy improvements for more coordinated effective and humane actions during future pandemics A sampling of the topics Ebola virus disease perinatal transmission and epidemiology Comprehensive clinical care for children with Ebola virus disease Maternal and reproductive rights Ebola and the law in Liberia Ebola related complications for maternal newborn and child health service delivery and utilization in Guinea The Ebola epidemic halted female genital cutting in Sierra Leone temporarily Maternity care for Ebola at M decins Sans Fronti res centers Stigmatization of pregnant women with and without Ebola Exclusion of women and infants from Ebola treatment trials Role of midwives during the Ebola epidemic *Pregnant in the Time of Ebola* is a powerful resource for public health specialists anthropologists social scientists physicians epidemiologists nurses midwives and governmental and non governmental agency staff studying the effects of the epidemic on women and children as a result of the most widespread Ebola outbreak to date

Educational Assessment in a Time of Reform Coert Loock,Vanessa Scherman,2019-11-20 *Educational Assessment in a Time of Reform* provides background information on large scale examination systems more

generally and the South African examination specifically It traces the reforms in the education system of South Africa since 1994 and provides a description of the advances in modern test theory that could be considered for future standard setting endeavours At the heart of the book is the debate on whether the current standard of education in Africa is good enough If not then how can it be improved The aim of this book is to provide a point of departure for discussions on standard setting quality assurance equating of examinations and assessment approaches From this point of departure recommendations for practices in general and the exit level Grade 12 examination results in particular can be made This book is ideal reading for principals teachers academics and researchers in the fields of educational assessment measurement and evaluation

Education and the Family Timothy J. Madigan, Sampson Lee Blair, 2025-05-21 Chapters cover topics such as family economic and cultural resources and school performance and attainment of students family multilingualism and academic success family stressors and education valuation of higher education versus employment and family contestations of public schooling and its policies and curriculum among others

Primary and Secondary Education in Sierra Leone Collier, Ebenezer, 2016-03-29 Colonial education was instituted in Sierra Leone as a consequence of the activities of British philanthropic and missionary bodies from the late 19th to mid 20th century It was largely in the hands of Christian missionaries introduced in the form of evangelism and as part of Western missionary enterprise Such education basically ignored the achievements and contributions of the indigenous populations and for the most part did not cultivate the African student's self esteem and pride The author gives details of policies programmes and statistical outcomes It is important particularly for policy makers as it may serve as input to the debate on future education policy development and has the potential for contributing to research literature on implementation of educational policies Sierra Leoneans should access the previously lacking and relevant knowledge of the development of education during the fifty years of Independence as presented in this book As such it will also be a valuable resource for college and university lecturers

Africa's Natural Resources and Underdevelopment Kwamina Panford, 2017-02-02 This book explores how African countries can convert their natural resources particularly oil and gas into sustainable development assets Using Ghana one of the continent's newest oil producing countries as a lens it examines the resource curse faced by other producers such as Nigeria Angola and Equatorial Guinea and demonstrates how mismanagement in those countries can provide valuable lessons for new oil producers in Africa and elsewhere Relying on a broad range of fieldwork and policymaking experience Panford suggests practical measures for resource rich developing countries to transform natural resources into valuable assets that can help create jobs boost human resources and improve living and working conditions in Ghana in particular He suggests fiscal legal and environmental antidotes to resource mismanagement which he identifies as the major obstacle to socioeconomic development in countries that have historically relied on natural resources

Intercultural Studies of Curriculum Carmel Roofe, Christopher Bezzina, 2017-10-05 This book explores the philosophical ideological and practical dimensions of

curriculum using an intercultural lens It is cross cultural comparative and inclusive with each chapter featuring case studies from a minimum of three countries across different continents By using the same methods of data collection and analysis for each country level in each chapter the text explores relationships of curriculum theory policy and practice both within and between countries A diverse range of themes is explored including social justice and teacher preparation curriculum language education curriculum early childhood education and music curriculum as praxis curriculum and globalisation science curriculum teacher leadership in curriculum implementation as well as curriculum and history The exploration of these themes lays the foundation for open dialogue and innovative approaches in exploring curriculum issues within between and across cultures and contexts

Continuing Professional Teacher Development in Sub-Saharan Africa Yusuf Sayed, 2018-03-22 Continuing Professional Teacher Development in Sub Saharan Africa explores the prospects that the on going continuous professional development CPD of teachers working in schools offers for meaningful change particularly towards improving the quality of educational provision for the majority of the continent s children By reflecting on teacher professional development efforts and their place in broader education reforms the book highlights the challenges of teacher CPD in these education contexts contexts strongly shaped by endemic poverty under development and social upheaval The collection draws together examples of innovation and resilience and the valuing of teachers as critical role players enabled and empowered through their on going development as education professionals Drawing together a wealth of experience the volume identifies the policy and research implications for the future of CPD across the continent providing important lessons that can be integrated into a post 2015 development agenda for Africa

War, Women and Post-conflict Empowerment Josephine Beoku-Betts, Fredline A. M'Cormack-Hale, 2022-01-13 Since the 1991 2002 civil conflict ended in Sierra Leone the country has failed to translate the accomplishments of women s involvement in bringing the war to an end into meaningful political empowerment This is in marked contrast to other post conflict countries which have increased the political participation of women in elected and appointed office increased the representation of women in leadership positions and enacted constitutional reforms promoting women s rights Written by Sierra Leonean and Africanist scholars and experts from a broad range of disciplines this unique volume analyses the historical and contextual factors influencing women s political economic and social development in the country In drawing on a diverse array of case studies from health to education refugees to international donors the contradictions successes and challenges of women s lives in a post conflict environment are revealed making this an essential book for anyone involved in women and development

Historical Dictionary of Ghana Edmund Abaka, David Owusu-Ansah, 2024-02-27 Ghana the former British West African colony of the Gold Coast is known for its rich agricultural mineral and petroleum resources Ghana has made tremendous strides in all areas of life and has become the gateway to West Africa if not all of Africa Observers now cite the country s achievement of economic recovery political stability and democratized governance as an example worthy of emulation by other African countries

Historical Dictionary of Ghana Fifth Edition contains a chronology an introduction and an extensive bibliography The dictionary section has more than 900 cross referenced entries on important personalities as well as aspects of the country s politics economy foreign relations religion and culture This book is an excellent resource for students researchers and anyone wanting to know more about Ghana **Daily Graphic** Ransford Tetteh,2014-04-17 [The Routledge International Handbook of Intercultural Arts Research](#) Pamela Burnard,Elizabeth Mackinlay,Kimberly Powell,2016-01-08 For artists scholars researchers educators and students of arts theory interested in culture and the arts a proper understanding of the questions surrounding interculturality and the arts requires a full understanding of the creative methodological and interconnected possibilities of theory practice and research The International Handbook of Intercultural Arts Research provides concise and comprehensive reviews and overviews of the convergences and divergences of intercultural arts practice and theory offering a consolidation of the breadth of scholarship practices and the contemporary research methodologies methods and multi disciplinary analyses that are emerging within this new field

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