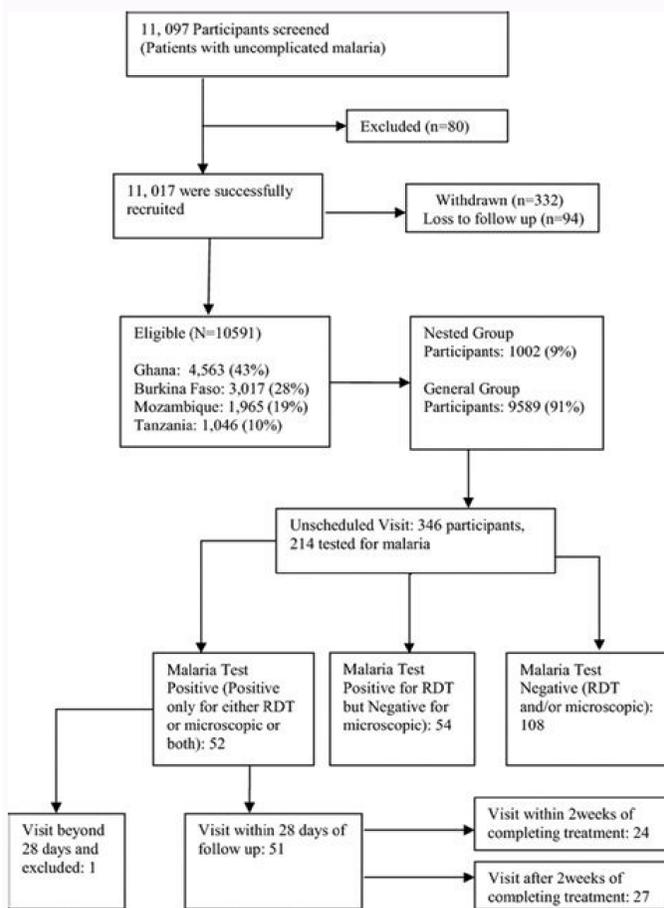




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Hospitalizations and Costs Incurred at the Facility Level after Scale-up of Malaria Control: Pre-Post Comparisons from Two Hospitals in Zambia

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Abstract. There is little evidence on the impact of malaria control on the health system, particularly at the facility level. Using retrospective, longitudinal facility-level and patient record data from two hospitals in Zambia, we report a pre-post comparison of hospital admissions and outpatient visits for malaria and estimated costs incurred for malaria admissions before and after malaria control scale-up. The results show a substantial reduction in inpatient admissions and outpatient visits for malaria at both hospitals after the scale-up, and malaria cases accounted for a smaller proportion of total hospital visits over time. Hospital spending on malaria admissions also decreased. In one hospital, malaria accounted for 11% of total hospital spending before large-scale malaria control compared with < 1% after malaria control. The findings demonstrate that facility-level resources are freed up as malaria is controlled, potentially making these resources available for other diseases and conditions.

INTRODUCTION

According to the most recent estimates from the World Health Organization World Malaria Report 2012, malaria accounted for approximately 660,000 deaths in 2010, of which almost 86% were among children < 5 years of age.¹ Most malaria deaths (91%) and cases occur in Africa.¹ Significant improvements have been made over the past decade in reducing the incidence of malaria. Of the 99 countries with ongoing malaria transmission, 50 of these countries are on track to reduce the incidence of reported malaria cases by 75% by 2015.² Globally, over the past decade, malaria incidence has decreased by 17%, and malaria-specific mortality rates have decreased by 26%.²

The principal malaria control interventions include vector control strategies, namely the distribution of long-lasting insecticide-treated nets and the application of indoor residual spraying (IRS), as well as increased use of rapid diagnostic tests (RDTs), first-line treatment of uncomplicated *Plasmodium falciparum* malaria with artemisinin-based combination therapy (ACT), and intermittent preventive treatment of malaria for pregnant women. Zambia, where this study was conducted, is a country in southern Africa with a high prevalence of malaria. Zambia was an early adopter of effective malaria control interventions, including ACTs as a first-line treatment, free RDTs, mass distribution of insecticide-treated nets (ITNs), and wide deployment of targeted IRS.^{3,4}

Compared with evidence on the effect of malaria control on mortality and morbidity outcomes, there is less evidence about the broader impact of malaria control on the health system, particularly at the service delivery level in terms of

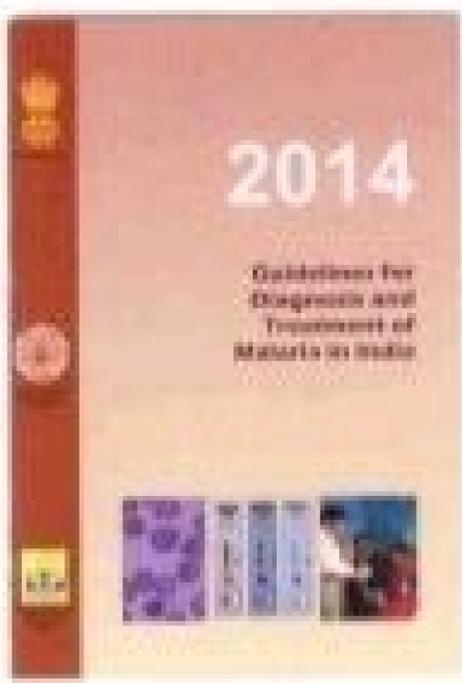
use of services and costs incurred. Various studies find that malaria inpatient admissions decrease with better malaria control strategies, but study results differ regarding the concurrent effect on admissions for other diseases.⁵⁻⁷ Other studies have provided cost estimates for treating severe versus uncomplicated malaria cases, or assessed the cost effectiveness or cost savings at the health facility from a particular malaria control intervention.⁸⁻¹¹

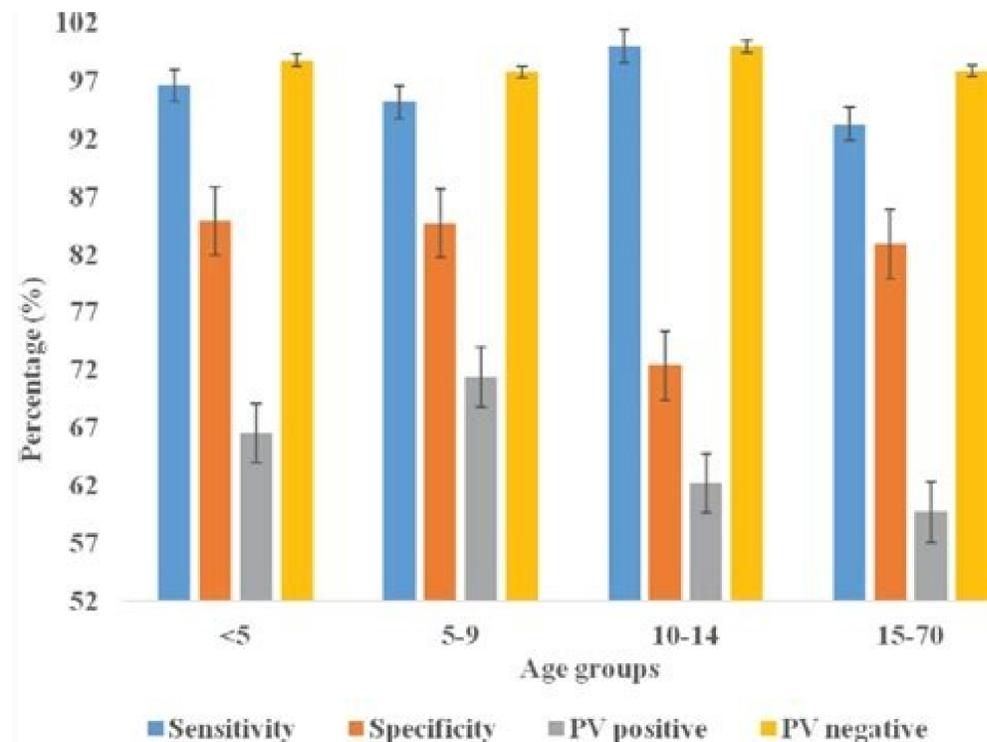
The purpose of this study was to assess how the implementation and scale-up of malaria control in the catchment area affects the health system by focusing specifically at the hospital level. We compare the number of inpatient admissions and outpatient visits for malaria during the pre-post period when malaria control interventions were scaled up in the relevant catchment areas. We also looked at how the proportion of inpatient admissions for malaria relative to admissions for other diseases changes over time. Finally, we estimate the total yearly costs incurred at the facility level for treating malaria admissions during the pre-post period and assess how the proportion of costs for malaria admission relative to total hospital expenditures changes over time. Unlike other studies that have focused specifically on malaria control and its relationship with inpatient admissions, or its effect on the costs incurred at the facility, this study ties these different components together to provide a more comprehensive understanding of how malaria control affects the health facility in terms of admissions and costs.

BACKGROUND

Study areas and facility selection. Our study sites include two hospitals in the Southern Province of Zambia. These hospitals were selected because data were available during the period before significant scale-up of malaria control, thus enabling a pre-post comparison of malaria admissions and hospital costs.

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Ministry of Health & Family Welfare



Annual Report 2019-20

Dr. Anil Kumar, Director, NIMR
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Ministry of Health & Family Welfare, Government of India
 New Delhi, India

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 New Delhi, India

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The Ministry of Health & Family Welfare, Government of India, is pleased to announce that the Annual Report 2019-20 of the National Institute of Malaria Research (NIMR) has been published. The report provides a comprehensive overview of the institute's activities, achievements, and challenges during the year. It highlights the institute's commitment to malaria research, surveillance, and control, as well as its efforts in capacity building and knowledge dissemination. The report also discusses the institute's role in supporting national malaria control programmes and its collaborations with international partners. The Annual Report 2019-20 is available for download on the NIMR website and is also being disseminated through various channels to ensure wide reach and accessibility.

Report on the progress of the work of the Institute during the year 2019-20

The National Institute of Malaria Research (NIMR) is a premier research institution in India, dedicated to the study and control of malaria. During the year 2019-20, the institute has made significant progress in various areas of research and surveillance. The report details the institute's activities, including the conduct of field studies, laboratory research, and the development of new diagnostic tools and treatments. It also highlights the institute's role in providing technical support to national malaria control programmes and its collaborations with international partners. The report is a valuable resource for stakeholders in the malaria control community and provides insights into the institute's current work and future plans.

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Rare but serious adverse drug reactions are therefore detected only in prospective phase IV post-marketing studies or population-based pharmacovigilance systems. When available, paediatric formulations and strengths are preferred, as they improve the effectiveness and accuracy of ACT dosing. Undesirable effects: There is some evidence that artemether + lumefantrine and dihydroartemisinin + piperaquine may achieve lower plasma concentrations in infants than in older children and adults. Data available were not suitable for evaluation using the GRADE methodology. In most clinical studies, subgroups of infants and older children were not distinguished, and the evidence for young infants (< 5 kg) is insufficient for confidence in current treatment recommendations. The WHO Malaria RDT Product Testing programme provides comparative data on the performance of RDT products to guide procurement. Knowlesi malaria Resistance of P. Rapid diagnostic tests based on immunochromatographic methods are available for the detection of P. Pending further information on excretion in breast milk, primaquine should not be used for nursing women, unless the breastfed infant has been checked for G6PD deficiency. Treat pregnant women with uncomplicated P. ovale [116] form hypnozoites, which are dormant parasite stages in the liver that cause relapse weeks to years after the primary infection. For example, in Thailand, despite low levels of malaria transmission, 8% of patients with acute vivax malaria also have P. SP, although considered safe, is not appropriate for use as an artesunate partner drug in many areas because of resistance to SP. Irrelevant in the Middle East, Asia, the Western Pacific and Central and South America. ACTs are effective against all malaria species and so are the treatment of choice for mixed infections. If the malaria species is not known with certainty, treat as for uncomplicated. Good practice statement In areas with chloroquine-susceptible infections, treat adults and children with uncomplicated P. This depends on the population prevalence of G6PD deficiency, the severity of the prevalent genotypes and on the capacity of health services to identify and manage primaquine-induced haemolytic reactions. Desirable effects: There are no comparative trials of the efficacy or safety of primaquine in people with G6PD deficiency. Undesirable effects: Primaquine is known to cause haemolysis in people with G6PD deficiency. Of the 15 trials included in the systematic review, 12 explicitly excluded people with G6PD deficiency; in three trials, it was unclear whether participants were tested for G6PD deficiency or excluded. In children with persistent fever despite parasite clearance, other possible causes of fever should be excluded, such as systemic Salmonella infections and urinary tract infections, especially in catheterized patients. With the exception of the Horn, it is rarer in Africa, where there is a high prevalence of the Duffy-negative phenotype, particularly in West Africa, although cases are reported in both Mauritania and Mali [114]. User-friendly packaging (e.g. blister packs) also encourages completion of a treatment course and correct dosing. The choice of ACTs in a country or region should be based on optimal efficacy, safety and adherence. Good practice statement Pharmacovigilance is the practice of monitoring the effects of medical drugs after they have been licensed for use, especially to identify and evaluate previously unreported adverse reactions. In comparison with no chemoprophylaxis: Chloroquine prophylaxis substantially reduced recurrent P. Each dose of parenteral quinine must be administered as a slow, rate-controlled infusion (usually diluted in 5% dextrose and infused over 4 h). As untreated bacterial meningitis is almost invariably fatal, a diagnostic lumbar puncture should be performed to exclude this condition. Although many studies of the efficacy of antimalarial drugs have been conducted in populations and settings where malnutrition was prevalent, there are few studies of the disposition of the drugs specifically in malnourished individuals, and these seldom distinguished between acute and chronic malnutrition. falciparum malaria is endemic have progressively updated their treatment policy from use of monotherapy with drugs such as chloroquine, amodiaquine and sulfadoxine-pyrimethamine (SP) to the currently recommended artemisinin-based combination therapies (ACT). Microscopy technicians may also contribute to the diagnosis of non-malarial diseases. Although nucleic acid amplification-based tests are more sensitive, light microscopy is still considered the "field standard" against which the sensitivity and specificity of other methods must be assessed. The choice between RDTs and microscopy depends on local circumstances, including the skills available, the patient case-load, the epidemiology of malaria and use of microscopy for the diagnosis of other diseases. Mefloquine may cause adverse neuropsychiatric reactions and should not be prescribed for prophylaxis in patients with active or recent history of depression, generalized anxiety disorder, psychosis, or schizophrenia or other major psychiatric disorders. knowlesi may cause a fulminant disease similar to severe falciparum malaria (with the exception of coma, which does not occur) [123][124]. knowlesi, a simian parasite, causes occasional cases of malaria in or near forested areas of South-East Asia and the Indian subcontinent [115]. vivax (which emerges about 3 weeks after onset of the primary illness), relapses begin to occur 5-7 weeks after treatment if radical curative treatment with primaquine is not given. ACTs are highly effective in the treatment of vivax malaria, allowing simplification (unification) of malaria treatment, i.e. all malaria infections can be treated with an ACT. Studies of the pharmacokinetics of SP used in IPTp in many sites show significantly decreased exposure to sulfadoxine, but the findings on exposure to pyrimethamine are inconsistent. Therefore, no dose modification is warranted at this time. Studies are available of the pharmacokinetics of artemether + lumefantrine, artesunate + mefloquine and dihydroartemisinin + piperaquine. Broad, inclusive stakeholder engagement in the design and implementation of national malaria control programmes will help to ensure they are feasible, appropriate, equitable and acceptable. A practical handbook on the pharmacovigilance of antimalarial medicines [145] provides a step-by-step approach for antimalarial pharmacovigilance. falciparum samples should be at least 75% at 200 parasites/ μ L. For detection of P. falciparum malaria, but the current evidence for young children is insufficient to be confident that the drug is as effective as currently recommended options. Options include increasing individual doses, changing the frequency or duration of dosing, or adding an additional antimalarial drug. Oral absorption of drugs may be reduced if there is diarrhoea or vomiting, or rapid gut transit or atrophy of the small bowel mucosa. Given intramuscularly, artemether may be absorbed more slowly and more erratically than water-soluble artesunate, which is absorbed rapidly and reliably after intramuscular injection. The exact duration of post-treatment follow-up is based on the elimination half-life of the partner drug in the ACT being evaluated. Light microscopy has other important advantages: low direct costs, if laboratory infrastructure to maintain the service is available; high sensitivity, if the performance of microscopy is high; differentiation of Plasmodia species; detection of gametocytaemia; allows monitoring of responses to therapy and can be used to diagnose many other conditions. Good performance of microscopy can be difficult to maintain, because of the requirements for adequate training and supervision of laboratory staff to ensure competence in malaria diagnosis, electricity, good quality slides and stains, provision and maintenance of good microscopes and maintenance of quality assurance [85] and control of laboratory services. Numerous attempts have been made to improve malaria microscopy, but none has proven to be superior to the classical method of Giemsa staining and oil-immersion microscopy for performance in typical health care settings [86]. Rapid diagnostic tests Rapid diagnostic tests (RDTs) are immuno-chromatographic tests for detecting parasite-specific antigens in a finger-prick blood sample. The relationship between parasitaemia and risks depends on the epidemiological context: in higher-transmission settings, the risk of developing severe malaria in patients with high parasitaemia is lower, but "uncomplicated hyperparasitaemia" is still associated with a significantly higher rate of treatment failure. Patients with a parasitaemia of 4-10% and no signs of severity also require close monitoring, and, if feasible, admission to hospital. falciparum hyperparasitaemia are at increased risk for treatment failure, severe malaria and death and should be closely monitored. In addition to receiving ACT. Good practice statement In falciparum malaria, the risk for progression to severe malaria with vital organ dysfunction increases at higher parasite densities. The ACTs are generally highly effective and well tolerated. Such recommendations are also designed to help the user to select and prioritize interventions from a range of potential alternatives. vivax malaria Although P. Antipyretics should be used if the core temperature is > 38.5 °C. In areas with pure P. Clear guidelines in the language understood by local users, posters, wall charts, educational videos and pregnant women in their second and third trimester. In deciding which ACTs to adopt in national treatment policies, national policy-makers should take into account: the pattern of resistance to antimalarial drugs in the country, the relative efficacy and safety of the combinations, their cost, the availability of paediatric formulations and the availability of co-formulated products. Fixed-dose combinations are preferred to loose tablets or co-blistered products. The Guideline Development Group decided to recommend a "menu" of approved combinations from which countries can select first- and second-line therapies. falciparum in South-East Asia, which threatens these gains. Core principles The following core principles were used by the Guidelines Development Group that drew up the Guidelines for the Treatment of Malaria. 1. Early diagnosis and prompt, effective treatment of uncomplicated falciparum malaria can progress rapidly to severe forms of the disease, especially in people with no or low immunity, and severe falciparum malaria is almost always fatal without treatment. Elsewhere, the dihydroartemisinin + piperaquine combination is highly effective. Resistance to SP limits its use in combination with artesunate in the few areas in which susceptibility is retained. Amodiaquine remains effective in combination with artesunate in parts of Africa and the Americas, although elsewhere resistance to this drug was prevalent before its introduction in an ACT. Considerations in use of artemisinin-based combination therapy Oral artemisinin and its derivatives (e.g. artesunate, artemether, dihydroartemisinin) should not be used alone. WHO's position was published in the information note The use of artesunate-pyronaridine for the treatment of uncomplicated malaria [99] which clarifies that artesunate pyronaridine can be considered a safe and efficacious ACT for the treatment of uncomplicated malaria in adults and children weighing 5 kg and over in all malaria-endemic areas. The pipeline for new antimalarial drugs is healthier than ever before, and several new compounds are in various stages of development. Mefloquine (5 mg/kg once a week) is recommended in areas where chloroquine resistance is common. When intramuscular injections can be given, the group recommends intramuscular artesunate in preference to rectal artesunate. This recommendation applies to all people with suspected severe malaria, including infants, lactating women and pregnant women in all trimesters. Where intramuscular artesunate is not available, use rectal artesunate (in children < 6 years), intramuscular artesether or intramuscular quinine. In the absence of direct comparative evaluations of parenteral antimalarial drugs for pre-referral treatment, the Guideline Development Group considered the known benefits of artesunate in hospitalized patients and downgraded the quality of evidence for use in pre-referral situations. The lower efficacy may have been due to lower drug concentrations in pregnancy, as was also recently observed in a high-transmission area in Uganda and the United Republic of Tanzania. malariae. The blood stages of P. Studies to determine the best treatments for artemisinin-resistant malaria are needed urgently. It is strongly recommended that single-dose primaquine (as a gametocytocide) be added to all falciparum malaria treatment regimens as described in section 5.2.5. For the treatment of severe malaria in areas with established artemisinin resistance, it is recommended that parenteral artesunate and parenteral quinine be given together in full doses, as described in section 5.5. The two general classes of poor-quality medicines are those that are falsified (counterfeit), in which there is criminal intent to deceive and the drug contains little or no active ingredient (and often other potentially harmful substances), and those that are substandard, in which a legitimate producer has included incorrect amounts of active drug and/or excipients in the medicine, or the medicine has been stored incorrectly or for too long and has degraded. The problems of instability are accelerated under tropical conditions. falciparum, pan-specific or species-specific Plasmodium lactate dehydrogenase (pLDH) or pan-specific aldolase. In all such cases, empirical parenteral broad-spectrum antibiotics should be started immediately, together with antimalarial treatment. Treatment of severe malaria It is essential that full doses of effective parenteral (or rectal) antimalarial treatment be given promptly in the initial treatment of severe malaria. Similarly, many pregnant women in Africa have been treated with amodiaquine alone or combined with SP or artesunate; however, amodiaquine use for the treatment of malaria in pregnancy has been formally documented in only > 1300 pregnancies. If both the slide examination and the RDT results are negative, malaria is extremely unlikely, and other causes of the illness should be sought and treated. This document does not include recommendations for use of specific RDTs or for interpreting test results. GMP will revise the Guidelines based on new information available in 2021. Artesunate + piperaquine is a combination of a synthetic ozonide and piperaquine phosphate that is registered in India. knowlesi should therefore be treated with the standard regimen of ACT or chloroquine, as for vivax malaria. Mixed malaria infections Mixed malaria infections are common in endemic areas. The practical consequence is that two packs of an antimalarial drug might have to be opened to ensure adequate treatment. If the suppository is expelled from the rectum within 30 min of insertion, a second suppository should be inserted and the buttocks held together for 10 min to ensure retention of the dose. Where complete treatment of severe malaria is not possible but injections are available, give adults and children a single intramuscular dose of artesunate, and refer to an appropriate facility for further care. Where possible, however, blood smears should be examined by microscopy, with frequent monitoring of parasitaemia (e.g. every 12 h) during the first 2-3 days of treatment in order to monitor the response. Choosing ACT in the absence of resistance, all the recommended ACTs have been shown to result in parasitological cure rates of > 95%. In these settings, chloroquine may still be considered, but countries should monitor chloroquine resistance and change to ACT when the treatment failure rate is > 10% on day 28. Current methods do not distinguish recrudescence from relapse or relapse from newly acquired infection, but the aim of treatment is to ensure that the rates of recurrent parasitaemia of any origin is < 10% within 28 days. When primaquine is not given for radical cure, slowly eliminated ACT that prevents recurrent parasitaemia before day 28 should be used (dihydroartemisinin + piperaquine or artesunate + mefloquine). Primaquine has significant asexual stage activity against vivax malaria and augments the therapeutic response to chloroquine. Recurrent vivax malaria is an important impediment to human and economic development in affected populations. Modelling studies suggest that having multiple first-line ACTs available for use may help to prevent or delay the development of resistance. Recommendation: Dihydroartemisinin + piperaquine is recommended for general use. A systematic review showed that the dosing regimen of dihydroartemisinin + piperaquine currently recommended by the manufacturers leads to suboptimal dosing in young children. vivax epidemics, ACTs or chloroquine (if prevalent strains are sensitive)

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