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Débora Miranda

Porto, 04.11.2016



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Quality of Artemisinin-Based Combination Formulations for Malaria Treatment: Prevalence and Risk Factors for Poor Quality Medicines in Public Facilities and Private Sector Drug Outlets in Enugu, Nigeria

Harparkash Kaur , Elizabeth Louise Allan, Ibrahim Mamadu, Zoe Hall, Ogochukwu Ibe, Mohamed El Sherbiny, Albert van Wyk, Shunmay Yeung, Isabel Swamidoss, Michael D. Green, Prabha Dwivedi, Maria Julia Culzoni, Siân Clarke, [...], Obinna Onwujekwe [[view all](#)]

Published: May 27, 2015 • DOI: [10.1371/journal.pone.0125577](https://doi.org/10.1371/journal.pone.0125577)

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Abstract

Introduction

Methods

Results

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Abstract

Background

Artemisinin-based combination therapies are recommended by the World Health Organisation (WHO) as first-line treatment for *Plasmodium falciparum* malaria, yet medication must be of

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****Embargoed to 19.00 UK time [BST] / 14.00 EDT on Wednesday 27 May 2015****

Study in Nigeria finds 1 in 10 malaria drugs are poor quality

Substandard medicines more prevalent than fakes in world's most malaria-burdened country

A rigorous analysis of more than 3,000 antimalarials purchased in Enugu, Nigeria found 9.3% to be of poor quality, according to new research published in *PLOS ONE*.

Researchers found 1.2% of the samples to be falsified and 1.3% to be degraded, but raised bigger concerns about 6.8% being of substandard manufacture, leaving patients at risk of not receiving the correct treatment dose and potentially contributing to the development of resistance to the main drug used to treat malaria.

The drug quality team of the Artemisinin-based Combination Therapy (ACT) Consortium at the London School of Hygiene & Tropical Medicine analysed 3,024 antimalarials containing artemisinin (the component that makes malaria treatment effective) from Enugu Metropolis, South East Nigeria, which has a population of 3.3 million. Nigeria is the single most heavily malaria-burdened country in the world, with 48 million malaria cases and 180,000 deaths per year.

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DOES NIGERIA HAVE POOR QUALITY MALARIA DRUGS?

Mon, 01 Jun 2015 10:12:44 GMT

A recent study by the London School of Hygiene and Tropical Medicine found that 1 in 10 Malaria drugs in Nigeria are of poor quality. However, the report also states that this latest research is more reassuring compared to previous studies. Is Nigeria losing the battle against malaria? Dr Harpakash Kaur, lead investigator of the study joins CNBC Africa for more.

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Presumptive treatment for malaria: breaking the habit



The prescription of antimalarials for fever, without establishment of its cause, is very common in malaria-endemic countries and thought to be a major cause of drug resistance. WHO therefore recommends use of rapid diagnostic tests for malaria before treatment with artemisinin-based combination therapy. However, uptake of such tests has been slow. Wilfred Mbacham and colleagues, in their [Article](#), describe a cluster-randomised trial of two testing strategies

The Lancet

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[Article](#)
Pulse oximetry screening:
 the results of a large study of

[The Lancet Diabetes & Endocrinology](#)

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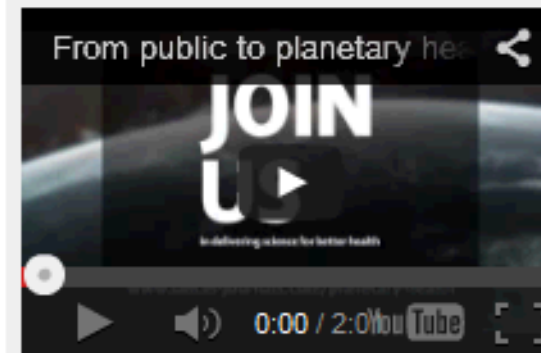


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"The lessons learnt from this outbreak can be of value for other countries"

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PUBLIC RELEASE: 24-APR-2014

Interactive training halves malaria overdiagnosis and prevents wastage of drugs

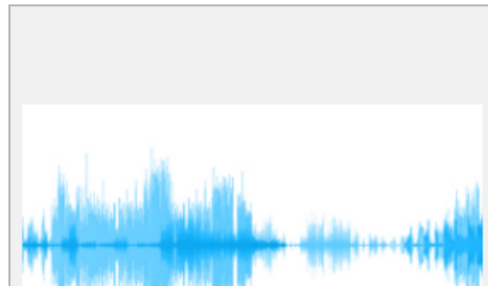
New research published on World Malaria Day

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PRINT E-MAIL

Interactive training programmes for health workers could reduce overdiagnosis of malaria by half and help prevent valuable drugs from being wasted on patients who don't have the disease, according to new research published on World Malaria Day in *The Lancet Global Health*. The study shows



Media Contact

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More on this News Release

Interactive training halves malaria overdiagnosis and prevents wastage of drugs

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PATH's Work in Drug Development



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Tackling malaria overdiagnosis through interactive training

Guest contributor *Débora Miranda* is technical communications officer at the *ACT Consortium*, based at the *London School of Hygiene & Tropical Medicine, UK*.

Did you know that most people who receive antimalarials don't actually have malaria, and most people who have malaria don't have access to treatment?

It's a known fact for many in the malaria community, but I was certainly surprised to hear about it when I first joined the artemisinin-based combination therapy (*ACT*) Consortium, an international research collaboration

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Training 'reduces malaria overdiagnosis to 31 per cent'

30/05/14

Sarah Ooko



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The image shows a screenshot of the Twitter profile for Gates Health (@gateshealth). The profile picture is a woman in a yellow patterned shawl. The header includes the Gates Health logo (a stylized 'Gf' in a square), the name 'Gates Health', and the handle '@gateshealth'. Below this is a bio: 'The Gates Foundation Global Health work harnesses advances in science and technology to save lives in developing countries. Seattle, WA · gatesfoundation.org/polio'. The statistics section shows 2,082 tweets, 328 following, and 29.7K followers. A blue 'Following' button is present. Below the statistics, it says 'Followed by Bill Gates, George Darroch, World Health Summit and 91 others.' The 'Tweets' section shows a tweet from Gates Health (@gateshealth) posted 44 minutes ago, which is circled in red. The tweet text is: 'Hands-on training halves malaria diagnosis, helping avoid drug waste: gates.ly/1nNv00L #WorldMalariaDay'. Below the tweet, it shows 6 retweets and 3 favorites, along with icons for various organizations like UNICEF, WHO, and others.

Gates Health
@gateshealth

The Gates Foundation Global Health work harnesses advances in science and technology to save lives in developing countries.
Seattle, WA · gatesfoundation.org/polio

TWEETS 2,082 FOLLOWING 328 FOLLOWERS 29.7K

Followed by Bill Gates, George Darroch, World Health Summit and 91 others.

Tweets

Gates Health @gateshealth · 44m
Hands-on training halves malaria diagnosis, helping avoid drug waste:
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RETWEETS 6 FAVORITES 3

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Evaluating Interventions to Improve ACT Access and Targeting – Results from the IMPACT2 project

Background

Artemisinin combination therapy (ACT) is the recommended treatment for malaria in Tanzania and most other endemic countries. Tanzania introduced the ACT artemether-lumefantrine (AL) as first line drug in 2006. However, access to ACT is poor and very often these drugs are not targeted to patients who are actually suffering from malaria.

To tackle the problem, in the last 3 years the government of mainland Tanzania has implemented two interventions nationwide: rolling out malaria Rapid Diagnostic Tests in public health facilities, and introducing subsidised ACTs through the APMF in pharmacies.

The two interventions

Malaria Rapid Diagnostic Tests (mRDT)

Diagnosis of fever cases in public health facilities was using blood smears previously done, until the national guidelines changed in 2010 to require rapid diagnostic confirmation for treatment of malaria. To address this, the government rolled out malaria Rapid Diagnostic Tests in public health facilities between 2010 and 2012. The tests take 15 to 20 minutes and do not require specialist laboratory skills.

The Affordable Medicines Facility – malaria (AMFm)

The AMFm is a subsidy mechanism run by the Global Fund to fight HIV, Tuberculosis and Malaria. The aim was to increase the availability, affordability, quality and use of quality-assured ACTs (QAACTs) through the public and private sectors. In addition to the subsidy itself, AMFm interventions included joint negotiations between the Global Fund, private CT manufacturers and supply chain intermediaries, and training.

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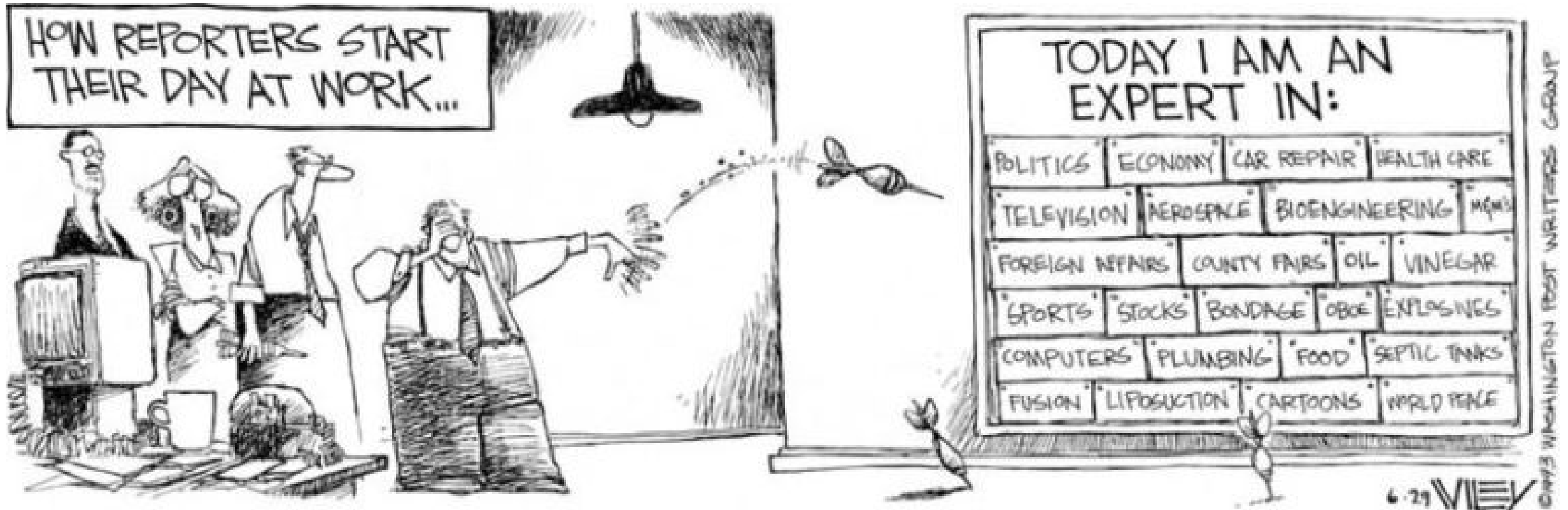
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- Mostrar disponibilidade
- Explicar a uma criança de 11 anos
- KISS: *Keep it short & simple*
- Colaborar no processo de assessoria
- Contribuir para literacia
- Divulgar *non-breakthroughs* (e.g. prevenção)

**COMO
AJUDAR?**



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Dr João Marques Teixeira, Presidente



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Dr João Marques Teixeira, Presidente

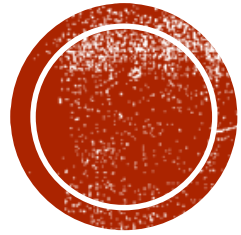
Informar a população sobre perturbações mentais é obra de uma sociedade e a comunicação social é a voz institucionalizada dessa mesma sociedade.

Mas, para cumprir tal tarefa, também eles [jornalistas] devem ser esclarecidos sobre o que a arte médica e a ciência hoje dizem sobre a perturbação mental.



A glass of red wine is the equivalent to an hour at the gym

-- Huffington Post



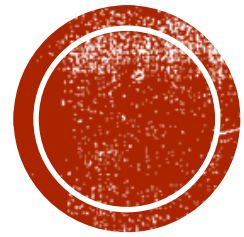
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A glass of red wine is the equivalent to an hour at the gym

-- Huffington Post



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*Technology is altering how people receive, share, and debate information;
the internet and rise of social media are accelerating the speed and spread of information.*

-- World Innovation Summit for Health (WISH)
Communicating Complex Health Messages Forum 2015

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“When we privilege scientific information over other forms of knowledge, we lose something very important, because those numbers have no categories to describe things like **suffering**. Artists help with that – and TV is excellent at doing that.”

Christopher van Tulleken
(Imperial College London)



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“ There’s a shift in which **feelings trump facts** more freely and with less resistance.

Because facts are easily turned into lies; because with information overload **we prefer opinions.**”

Art of the lie



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Why scientists are losing the fight to communicate science to the public

Richard P Grant

Scientists and science communicators are engaged in a constant battle with ignorance. But that's an approach doomed to failure



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PRODUZEM CONHECIMENTO
DEVERIAM ESTAR MAIS
PRÓXIMAS DA SOCIEDADE’**

Maria Fernanda Rollo
Secretária de Estado para a Ciência,
Tecnologia e Ensino Superior



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