

A Fellowship of Evidence in Clinical Practice: Adapting Foreign Guidelines for Middle Africa

Dr Okwen Patrick¹, Inez Van Overschelde², Prof Robert Vander Stichele³
1. eBASE Africa 2. iScientia Belgium 3. University of Ghent













... One Evidence Portal to guide them all ...

Nigerian national guideline for Treatment of uncomplicated malaria at the community level

National guideline for Nigeria General practitioner, Nurse

20/05/2015





First line treatment of Tuberculosis

WHO guideline

General practitioner, Nurse

30/07/2019 🛅





Guide pratique du Diagnostic du Paludisme au Cameroun

National guideline for Cameroon Médecin généraliste, Infirmier

18/07/2019 🛅





Background

Current Practice is informed by (mostly outdated) textbooks from Europe

 Limited national guidelines, often not up to date

 Limited number of WHO Guidelines, relevant for Sub-Saharan Africa

International point of care evidence summaries (e.g. DUODECIM EBM-GUIDELINES) not contextualized to Sub-Saharan Africa

Internet connections not always reliable rural areas



Problem Statement

Paper-based health records:
 Health paper records given to patients, with risk of loss

Silo Practice: Lack of flow of information within health systems on available health technologies



Challenges With Service Delivery

- Service Providers Barriers
 - Lack of access to research evidence to guide practice
 - Lack of financial means to purchase equipment and medication at primary care
 - Workforce
- Service Users
 - Lack finance to pay for bills especially at district and referral hospitals
 - Lack of information on genuine medicines
 - High rates of counterfeit medicines
 - Weak insurance platforms
 - Lack of health records





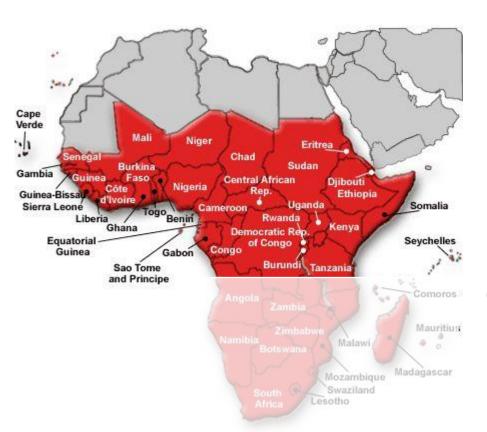
Opportunities

- Internationally developed comprehensive suites of guidelines
 - Finnish, Belgian and French experiences with EBM-GUIDELINES
 - WHO Guidelines built for Africa for Malaria, HIV, TB and Soil-transmitted Helminths
 - JBI clinical fellowship evidence based practice criteria
 - Tools to develop SSA specific recommendations (MAGICApp's RapidRecs)
- Enablers in Africa
 - Close collaboration of WHO with ministries of health
 - Africa Evidence Network EIDM programs
 - Increased donor interest in Africa
- Availability of internet connections on 4G

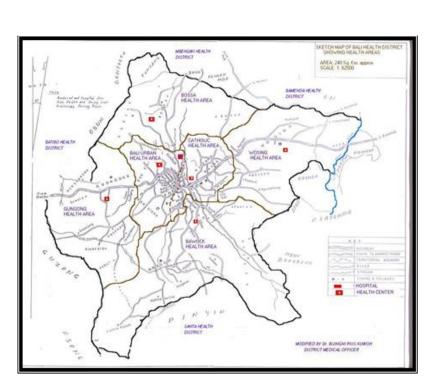




Setting







Cameroon in Middle Africa

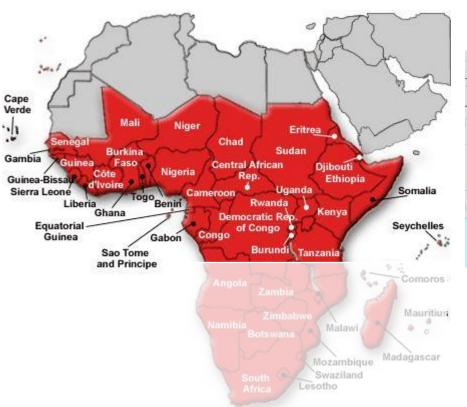
NW Region in Cameroon

Bali District in NW Region





Setting







Nigeria in Middle Africa

Cross River State in Nigeria

Calabar district in Cross River State





Air travel distance: 144 miles

Road distance: 335 km (5,5 hours)



Objective

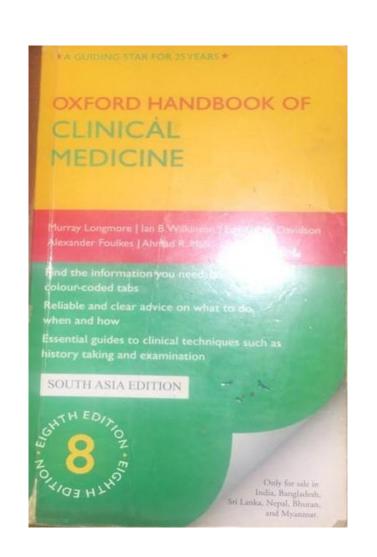
To design an point of care clinical decision support system to guide clinical practice in middle Africa



What Clinicians use now



Choices we propose





EBMAfricaNet

- PoC clinical decision support system
- Evidence portal
- Editorial team made of 7 African clinicians including members of 4 GIN Africa community and 2 JBI clinical fellows
- Nigeria, Cameroon, and Rwanda
- Bilingual
- Use of existing guidance:
 - National guidelines
 - WHO guidelines
 - Duodecim
- Developed by eBASE Africa, iScientia Belgium, and GIN Africa community www.ebmafrica.net





EBMAFRICA.NET

Welcome!

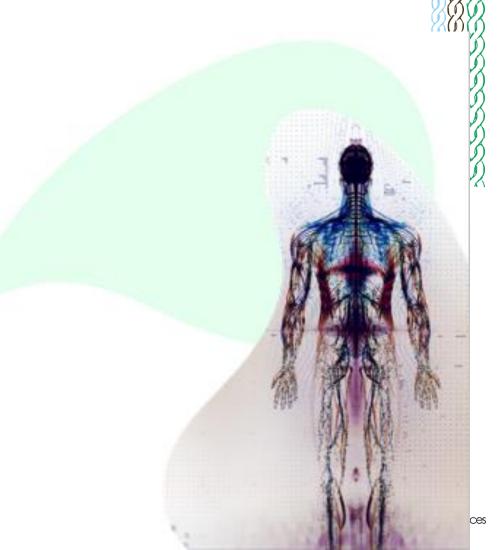
The current website ebmafrica.net consists of 1000 EBM Guidelines from Duodecim, more than 4000 evidence summaries and links to thousands of articles on PubMed & Cochrane.

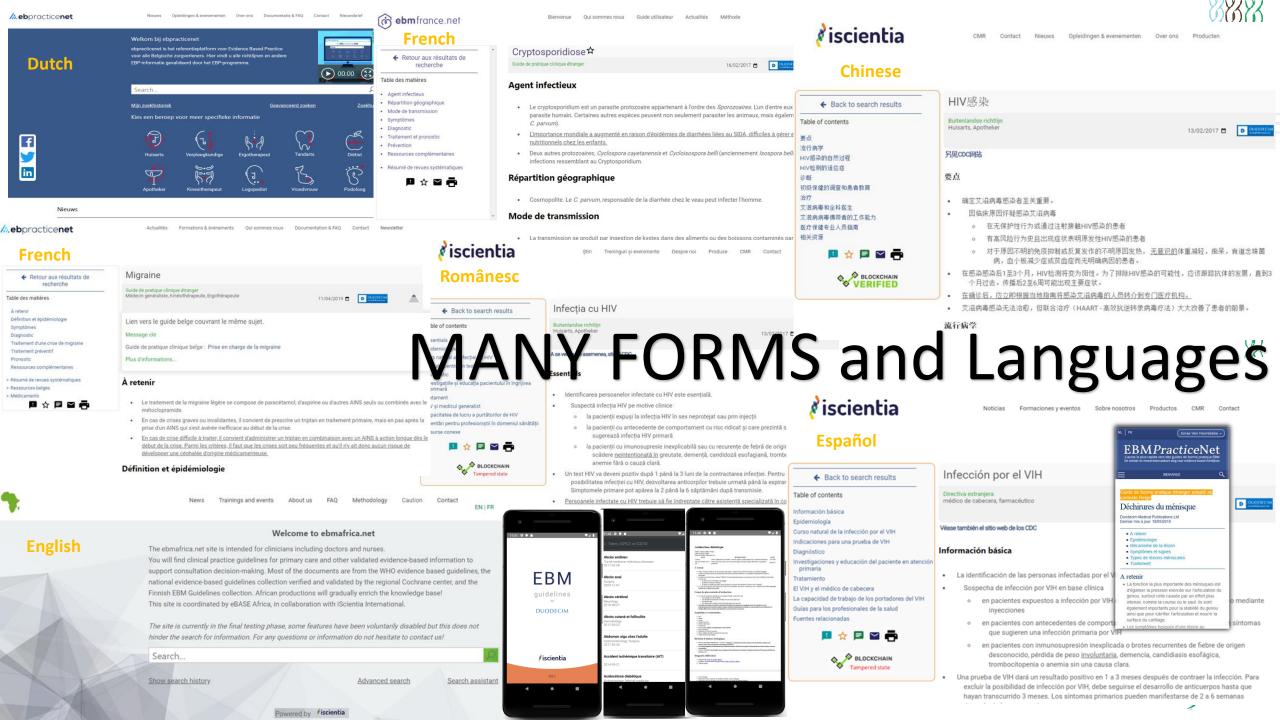
African productions will gradually enrich the knowledge base!

This presentation shows you how to add national or international information to the existing database.

- You learn how to add an existing guide line from the WHO or other EBM producer.
- We explain how you can add local information to an existing guideline.

This site is coordinated by eBASE Africa, in collaboration with iScientia International.







Decision tree

Need to add evidence based information on a specific topic?

National guideline exists!

WHO guideline exists!

Write a resume containing basic info, aetiology, diagnosis, treatment and medication.

Integrate the resume on the ebmafrica.net platform, add a link to the source guide line and publish! Write a resume containing basic info, aetiology, diagnosis, treatment and medication.

Integrate the resume on the ebmafrica.net platform, add a link to the source guide line and publish! **Duodecim guide line** exists!

Check to see if all the information is available.

Change the status to Adapted guideline and publish!

Add contextual information to the guideline.

Change the status to Adapted guideline and publish!





How to integrate an existing guide

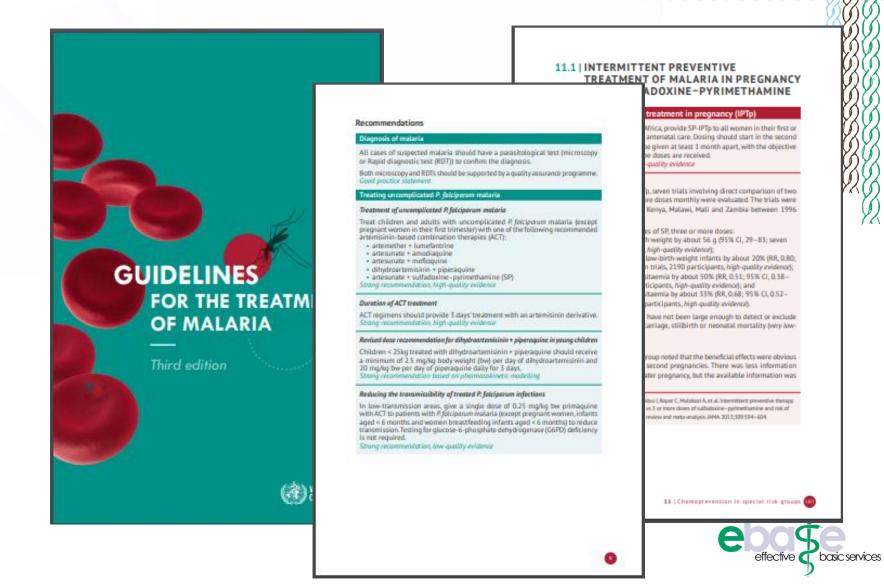
line



Need to add evidence based information on a specific topic?

WHO guideline exists!

An existing guideline from the WHO can be integrated on the ebmafrica.net platform, by means of a resume or summary and a link to the original guideline!



Ebmafrica.net

iscientia

How to integrate an existing guide line

Need to add evidence based information on a specific topic?



WHO guideline exists!

Write a resume containing basic info, aetiology, diagnosis, treatment and medication.

- 1. Every guide line on the ebmafrica.net offers default the following type of information:
 - Basic information in Essentials
 - Aetiology, causes, transmission
 - Diagnosis
 - Treatment
 - Medication
 - Link to the source document
- 2. Therefore, we ask to write a resume or summary based on the existing guideline with this type of information.
- 3. This is then incorporated in the platform, which is in HTML-format, using an HTML text editor (Xopus)
- 4. You can add images, tables, videos and other information like questionnaires or patient information as well.
- 5. After a quality check to see if everything looks fine, the guideline can be published.

← Back to search results

Table of contents

- > Essentials
- > Causative agent
- > Transmission
- > Prevalence and significance
- > Incubation period
- > Symptoms
- > Complications
- > Laboratory findings
- > Diagnosis
- > Treatment
- > Prognosis
- > Related resources
- > Evidence summaries
- > Medication

Diagnos

Foreign guidelin General practitio

For prevention a

Essentials

- > Malaria endem also be
- > The ris
- > In non-
- > Official contact
- > Malaria
- > Travel



How to integrate your resume in

ebmafrica.net

evidence based information on a specific topic?

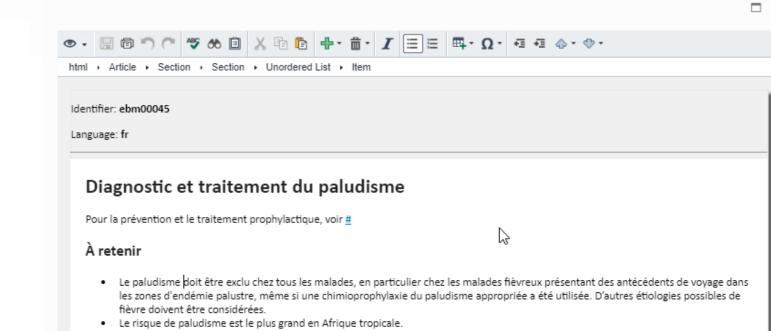
1. You write the resume based on the original guide line, in any format you want e.g. Word

2. This resume then needs to be converted to HTML using a text editor.



Write a resume containing basic info, aetiology, diagnosis, treatment and medication.

Integrate the resume on the ebmafrica.net platform, add a link to the source guide line and publish!





...and publish

Once the resume is converted to the html format, we add the necessary search terms, ICPC and ICD coding, and we publish the guideline onto ebmafrica.net

You can do the same for French or any other language...



Table des matières

- > Diagnostic du Paludisme
- > Traitement du paludisme non compliqué à P. falciparum
- > Durée du traitement par ACT
- Réduire la transmissibilité des infections traitées à P. falciparum
- > Document Source:

Le paludisme simple

WHO guideline Médecin généraliste, Infirmier

1/04/2015



1/04/2013

Diagnostic du Paludisme

Tous les cas suspects de paludisme doivent faire l'objet d'un test parasitologique (microscopie ou test de diagnostic rapide (TDR)) pour confirmer le diagnostic. La microscopie et les TDR devraient être appuyés par un programme d'assurance qualité. Déclaration de bonne pratique

Traitement du paludisme non compliqué à P. falciparum

Traitez les enfants et les adultes atteints de paludisme non compliqué à P. falciparum (à l'exception des femmes enceintes au cours du premier trimestre) avec l'un des traitements d'association à base d'artémisinine (ACT) recommandés suivants :

- > artéméther + luméfantrine
- > artésunate + amodiaquine
- > artésunate + méfloquine
- > dihydroartémisinine + pipéraquine
- > artésunate + sulfadoxine pyriméthamine (SP)

Forte recommandation, preuves de haute qualité

Durée du traitement par ACT



Ebmafrica.net



Adapt an existing guideline to local

information

Need to add evidence based information on a specific topic?

Duodecim guide line exists!

Check to see if all the information is available.

Change the status to Adapted guideline and publish!



Add contextual

guideline.

information to the

Follow-up 🛚

Note

Main message

This is the key message of a local adaptation

Note Explenation...

You can add extra information on the key message, with more explanation about the local context.

References

Add a link to the specific information e.g. WHO Malaria

Authors

Okwen, Patrick

- > Follow-up is necessary if the patient's occupation is associated with a higher than normal risk of disease spread or the occupation is such that the consequences of an infection would be more serious than usual.
 - > Employees in the food industry, who handle foodstuffs destined for the general public with bare hands
 - > Employees in water supply plants in contact with water destined for general distribution
 - > Employees involved in the care of neonates either in nursing or childcare duties
- > An employee in any of the above groups who develops gastroenteritis/diarrhoea must not return to his/her duties (regardless of the causative agent).



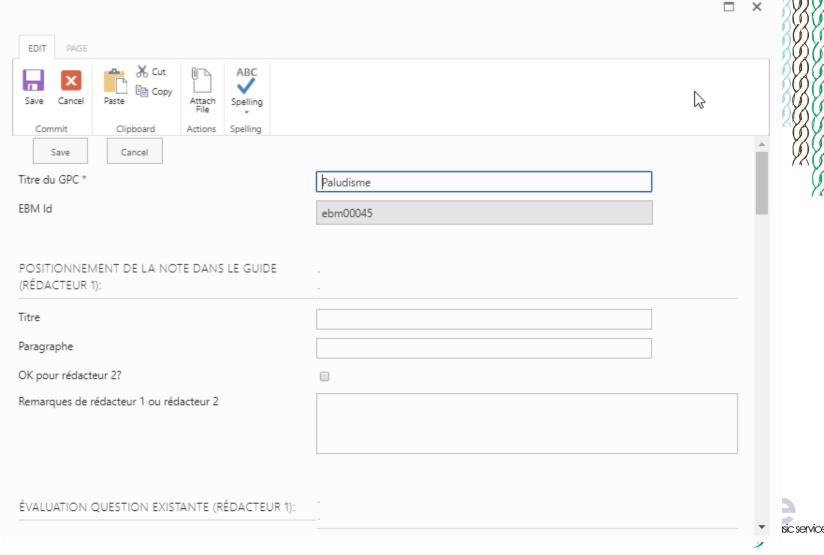
Ebmafrica.net



Adapt an existing guideline to local information

The doctors can create an adaptation and discuss with his collegue about the key message, more information and links to source documents via ebmafrica.net

The note is dynamically created on the platform so they can see how the note will be presented in the guide line.





...and publish

Once the local adaptation is validated by two doctors, it will be published to the public.

You can do the same for French or any other language...



Table des matières

À retenir

Agent causal

Mode de transmission

Prévalence et importance

Période d'incubation

Symptômes

Complications

Résultats d'analyses biologiques

Diagnostic

Traitement

Pronostic

Ressources complémentaires

- > Résumé de revues systématiques
- > Médicaments









A retenir

- Le paludisme doit être exclu chez tous les malades, en particulier chez les malades fièvreux présentant des antécédents de voyage dans les zones d'endémie palustre, même si une chimioprophylaxie du paludisme appropriée a été utilisée. D'autres étiologies possibles de fièvre doivent être considérées.
- Le risque de paludisme est le plus grand en Afrique tropicale.
- Dans les zones non endémiques le diagnostic du paludisme est une urgence médicale. Initier le traitement en urgence.
- Respecter les directives dans tous les cas suspects de paludisme et prendre conseil d'un infectiologue. Le personnel de laboratoire local donne des conseils concernant les prélèvements nécessaires.
- Le paludisme est une maladie infectieuse à déclaration obligatoire et le médecin traitant est tenu de signaler les cas conformément aux directives et les pratiques locales.

Note concernant la déclaration des maladies en Belgique.

Message clé

En Wallonie et à Bruxelles, seules les cas confirmés de malaria dit autochtone ou domestique (c'est-à-dire transmise par un moustique infecté sur le sol belge) sont à déclarer obligatoirement.

En Flandre, seules les cas de malaria dont on suspecte que l'infection a eu lieu sur le continent européen doivent être déclarés.

Information complémentaire...

Un voyage dans les zones endémiques nécessite le recours à la chimioprophylaxie du paludisme et à la protection contre les piqûres de moustiques.



Results

- www.ebmafrica.net went live in July 2019
- 9 clinical guidance developed and contextualized for 2 out of 3 countries
 - Malaria, HIV, TB, and Soil Transmitted Helaminths
- Access to 1000+ DUODECIM Guidelines
- 60 clinicians recruited to test





Challenges

- Use of site by clinicians still low due to need for training and sensitization
- Funding: project has been based on volunteer time by eBASE and iScientia staff
- Technology challenge for clinicians
- Capacity of edictorial team in evidence based recommendations







Thank you for your kind Attention

