

Antibiogram experience: do we have to choose between affordability and quality for LMICs?

Dr. Nada MALOU



Medecins Sans Frontières: an IVD legal manufacturer?

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We provide medical assistance to people affected by conflict, epidemics, disasters, or exclusion from healthcare. Our teams are made up of tens of thousands of health professionals, logistic and administrative staff - most of them hired locally. Our actions are guided by medical ethics and the **principles of impartiality, independence and neutrality.**

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16.3M

OUTPATIENT CONSULTATIONS

4.1M

VACCINATIONS AGAINST MEASLES
IN RESPONSE TO AN OUTBREAK

1.2M

PATIENTS ADMITTED

75

COUNTRIES

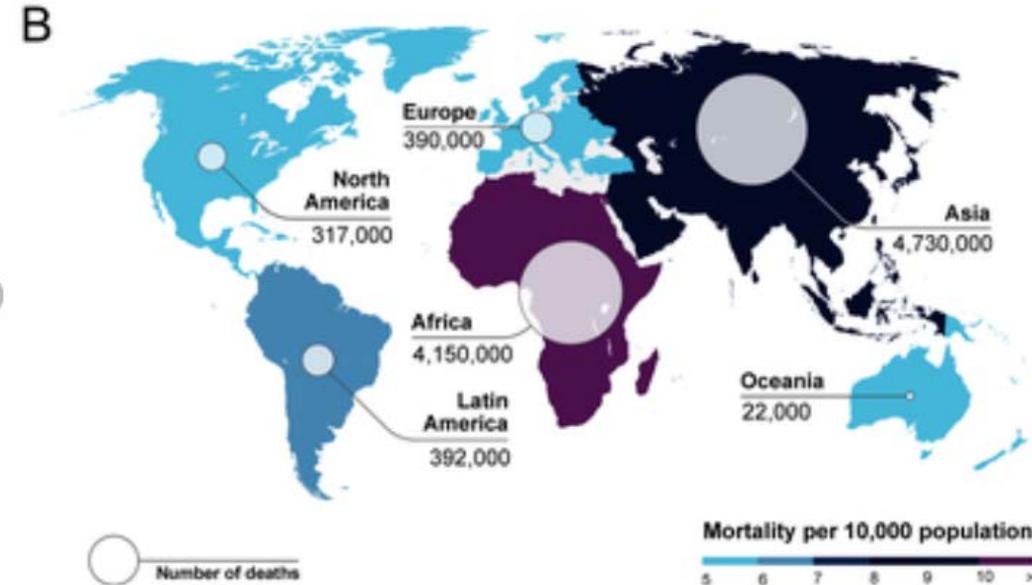
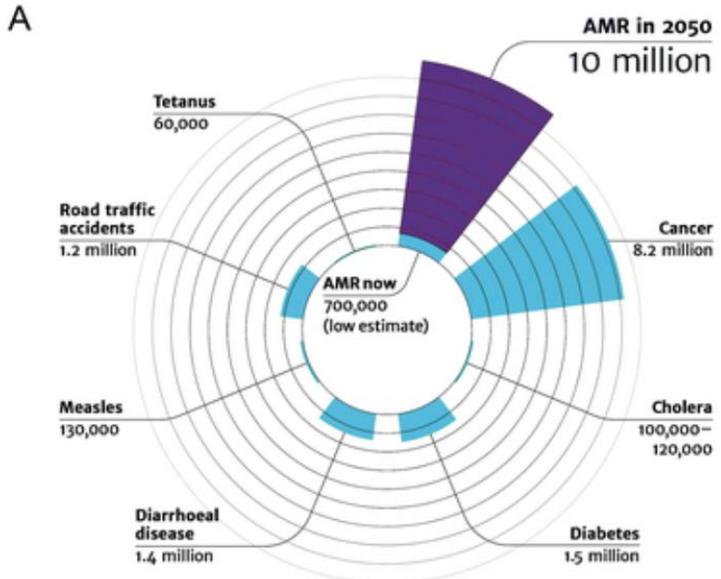


Antimicrobial Resistance and Non-equitable Access to Diagnostic

47% of the global population has little to no access to diagnostics.

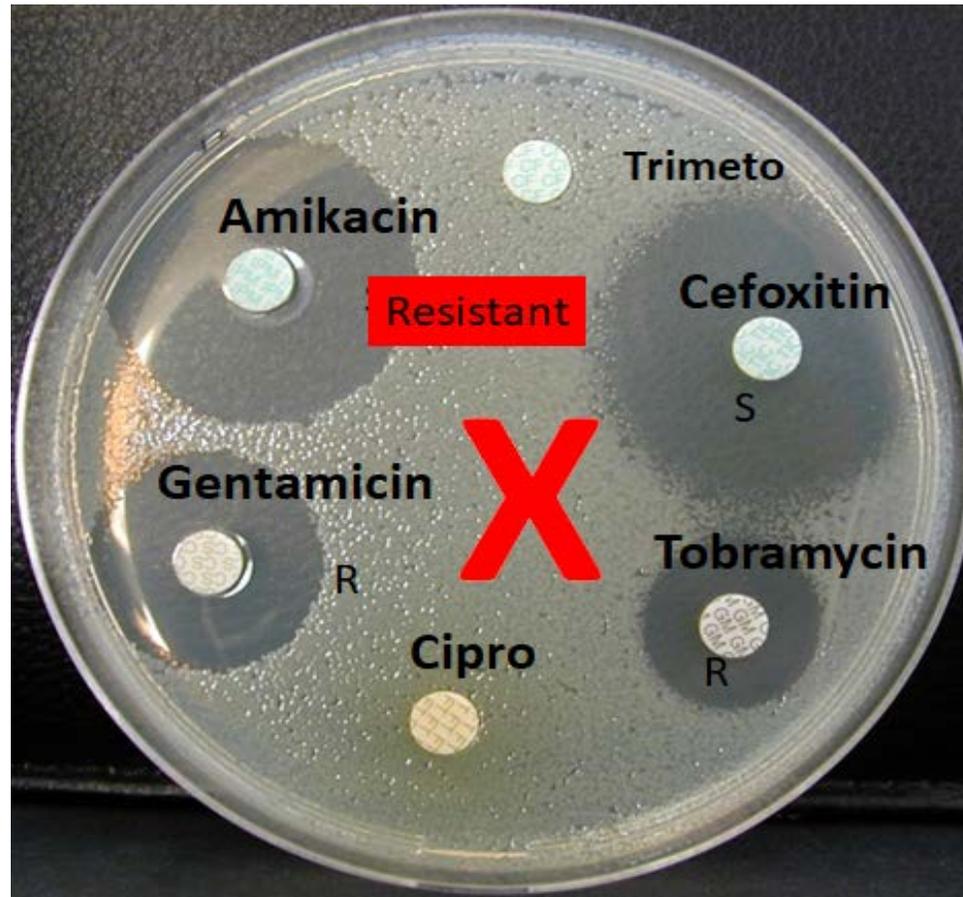
10 Millions deaths every year by 2050

400 years of training





How to provide accurate treatments when microbiologists are not available



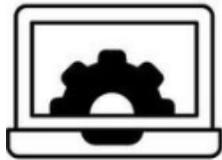


Antibiogo: Software as Medical Device: From, With and For LMICs

Smartphone based application, **free, offline**, supports laboratory technicians to **read and interpret Antimicrobial susceptibility test: Prescription of antibiotics**
CE marked in 2022



Academic



Tech



Health



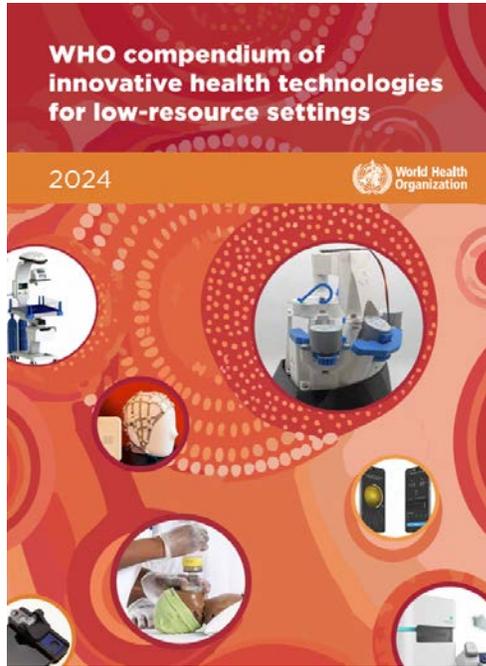
Regulatory

Google.org



6 years of R&D

Scale up with Global Health Actors and National Authorities



WHO compendium of innovative health technologies for low-resource settings 2024

Newly commercialized

Antimicrobial susceptibility testing interpretation*

Country of origin: France
 Primary use: Diagnosis/measurement/monitoring
 Category: Medical device (including in vitro diagnostics)

Commercial information:
 List price (USD): 0
 Year of commercialization: 2022
 Number of units distributed: Not applicable
 Currently marketed in: Central African Republic, Democratic Republic of the Congo, Jordan, Mali and Yemen
 Model: I.3 (certified with IVDD directive)

Product description:
 Antibiogo is a stand-alone software medical device application intended to support laboratory technicians in measuring inhibition zone diameters and interpreting antibiotic susceptibility tests (AST) from processed bacterial cultures from clinical samples. Antibiogo is intended to be used by trained laboratory technicians and non-experts in microbiology, operating in resource-limited LMIC.

Product details:
 Accessories: Not applicable
 Consumables: Not applicable
 Warranty duration: Not applicable
 Lifetime: yearly following EUCAST & CLSI updates
 Energy requirements: Not applicable
 Facility requirements: Clinical bacteriology laboratories

Contact: Nada Malou | Phone: +3 27 607 57089 | Web: <https://bit.ly/4e1YFN9>

* Information reported by manufacturer, October 2023

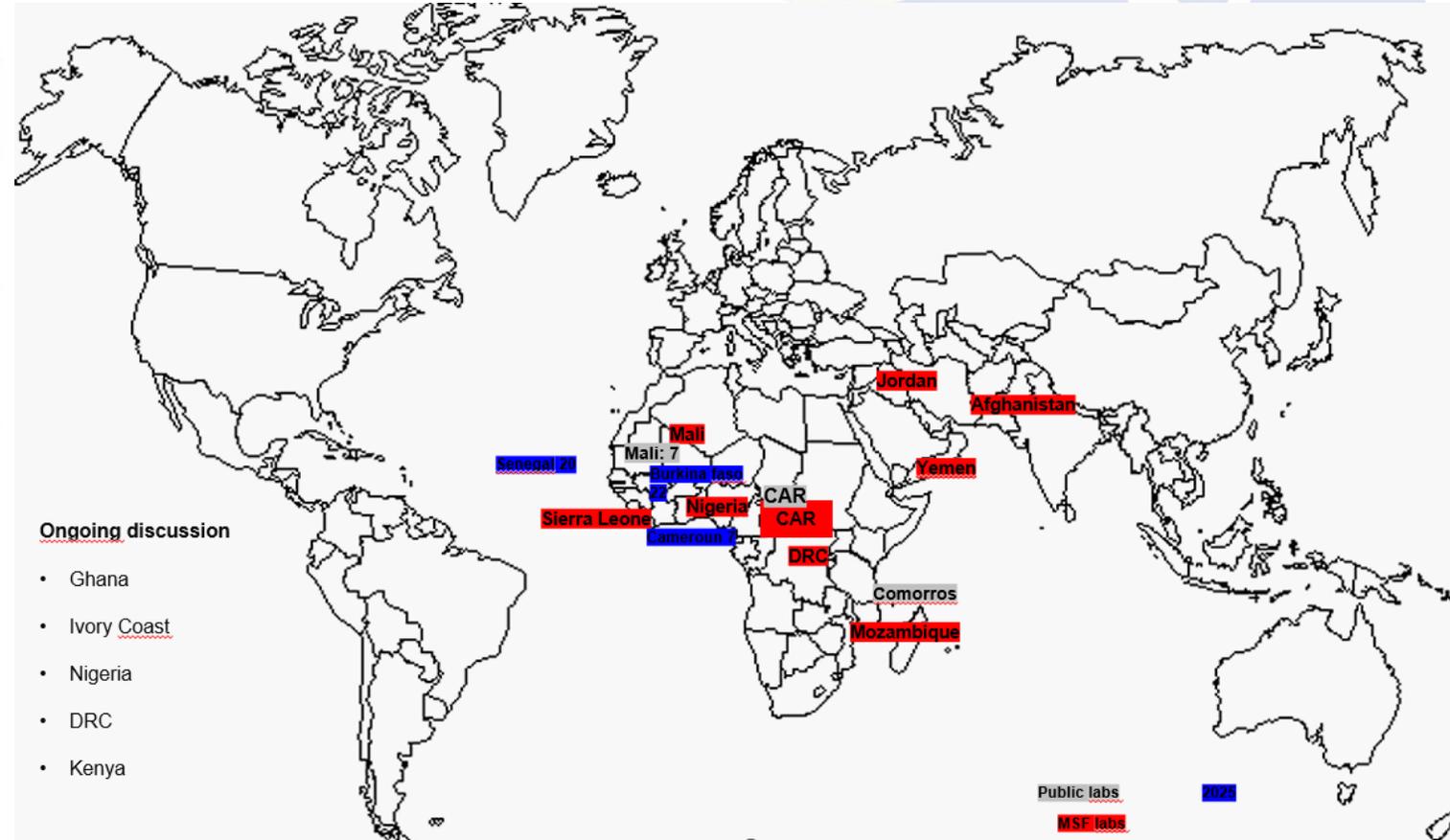
WHO assessment**

Clinical

Recommended

Antimicrobial resistance (AMR) is a growing challenge worldwide. In low-resource settings, access to a limited number of antimicrobials increases the need for adequate susceptibility testing, as the development of resistance must be avoided.

This technology is software made available to the user as a smartphone application, intended to support laboratory staff in performing antimicrobial susceptibility testing (AST). It supports measurement of inhibition zone diameters on antibiograms and breakpoint result interpretation. Overall, this technology seems useful for performing AST in laboratory settings where professionals may not have specific microbiology training, particularly in resource-limited LMIC.



Software as Medical Devices: A Major Advance in Diagnostic Quality, but How Can We Balance Affordability with Maintenance

Costs

- ❑ Yearly update of European and American society for interpretation rules
- ❑ IVDR and Quality management system
- ❑ Refactoring
- ❑ Post market surveillance
- ❑ Users feedbacks collection and iterations
- ❑ Helpdesk and user support



Thank you

<https://www.antibiogo.org/>

