LEISHMANIASIS EAST AFRICA PLATFORM: Strengthening Research Capacities in DiseaseEndemic Countries



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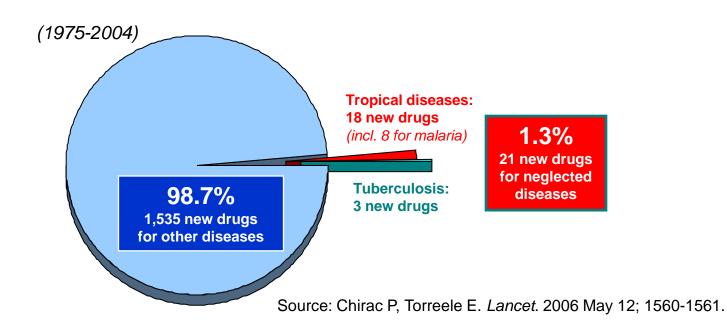


A Fatal Imbalance

Tropical diseases (including malaria) and tuberculosis account for:

- •12% of the global disease burden
- Only 1.3% of new drugs developed



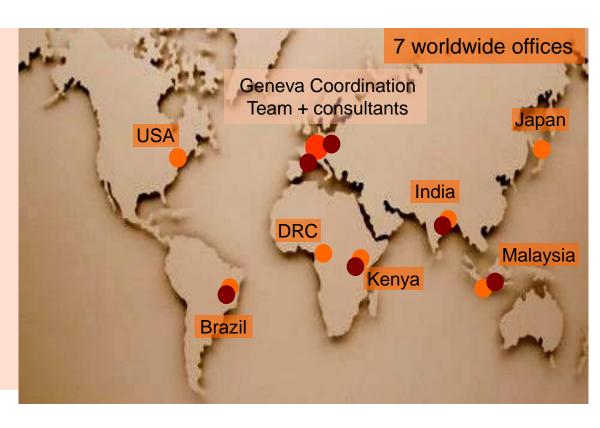


A New Model for Drug Development: **DNDi** created in 2003

- Non-profit drug research & development (R&D) organization founded in 2003
- Addressing the needs of the most neglected patients
- Harnessing resources from public institutions, private industry and philanthropic entities

7 Founding Partners

- Indian Council for Medical Research (ICMR)
- Kenya Medical Research Institute (KEMRI)
- Malaysian MOH
- Oswaldo Cruz Foundation Brazil
- **Medecins Sans Frontieres** (MSF)
- **Institut Pasteur France**
- WHO/TDR (permanent observer)





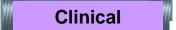
DNDi's Objectives



- Deliver 6 8 new treatments by 2014 for sleeping sickness, Chagas disease, leishmaniasis and malaria
- Establish a robust pipeline for future needs
- Use and strengthen existing capacity in diseaseendemic countries
- Raise awareness and advocate for increased public responsibility



Preclinical

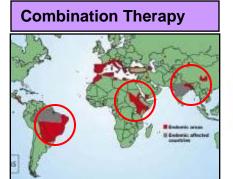


Available to patients

High-Troughput Screening at IPK



Lead Opt. Consortium: Advinus, CDRI, IRD, Anacor



Challenges for Clinical R&D

- Research capacity
- Health system barriers
 - Infrastructure
 - Logistics
 - Communications
- Geography/climate
- Different regulatory environments
- Funding







DND D1 Drugs for Neglected Dis

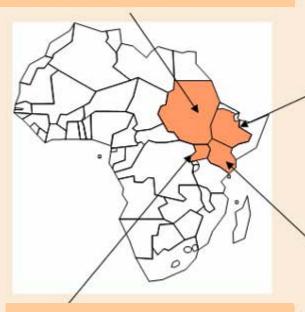
Idea for Platforms Started in 2003

- 1st DNDi Africa meeting
 - 7-9 May 2003, Nairobi: 18 African countries, 71 participants
- Neglected, marginalized, forgotten, invisible diseases
- Consensus conclusion: more action, fewer words
- Desire to collaborate to solve many health crises plaguing Africa
 - For diseases urgently needing improvement of treatments: LEAP, HAT Platform

Leishmaniasis East Africa Platform (LEAP)

SUDAN: 2 sites (Kassab, Dooka)

Univ. of Khartoum Federal Ministry of Health



ETHIOPIA: 2 sites (Gondar, Arba Minch)

Addis Ababa Univ. Gondar Univ. Ministry of Health A group of scientists and institutions working on developing clinical trial capacity to bring new treatments to patients







KENYA: 2 sites (Nairobi,

Kimalel)

KEMRI

Ministry of Health

MSF

I+ solutions
LSH&TM
AMC/SU/KIT (ASK)
IOWH -India
Industry partners

UGANDA: 1 site (Amudat)

- Makerere Univ.
- Ministry of Health



LEAP
Leohmanianis East Africa Platform

Drugs for Neglected Diseases initiative

DND1 Drugs for Neglected Disea

LEAP Objectives

- Facilitate clinical testing and registration of new treatments for VL in the region (Ethiopia, Kenya, Sudan and Uganda)
- Evaluate, validate and register improved options that address regional needs for VL
- Provide capacity strengthening for drug evaluation and clinical studies in the region



Activities

Coordination

- DNDi Africa office at KEMRI established
 - Building and coordination of African LEAP network
 - Support implementation of DNDi research projects
 - Advocacy campaigns: African neglected diseases
- Biannual investigator meetings to coordinate
 - R&D activities
 - Share experiences
 - Conduct training
 - Liaise with clinical monitors and Data safety monitoring board

DND1

The LEAP Team



(Photo courtesy of Dr M Wasunna)

Activities Training

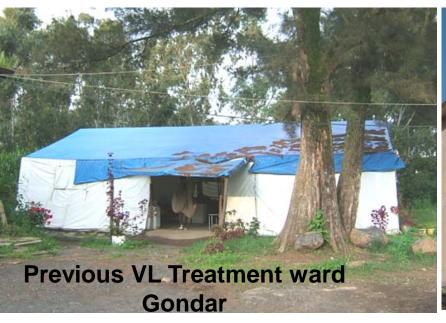
- A needs-driven approach, adapted per region
- Training of investigators to conduct research to international standards: Good Clinical Practice
 - Training of trial staff (needs, level, methods)
 - Ethics concepts (GCP, informed consent etc)
 - Standard operating procedures (SOPs)
 - Documentation & Safety reporting
- Disease training: patient assessment and care, diagnosis & lab training, etc
- Training for Monitors and DSMB





Activities Infrastructure upgrades

1. Ethiopia, Gondar University Hospital: LR&TC

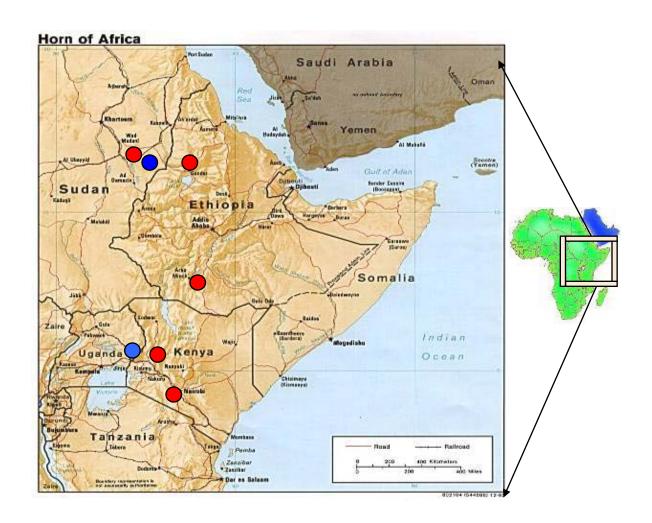




- 2. Kenya, Kimalel Health centre opened as a LEAP site in January 2009
- 3. Sudan, Dooka- development of a Laboratory Technologist & Clinical training centre, treatment centre & research site

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Activities LEAP clinical trial sites

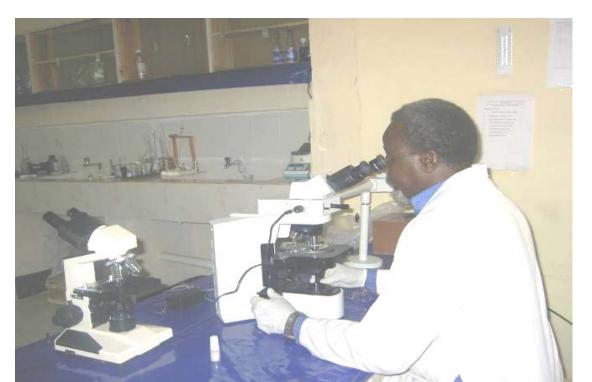


Activities Capacity strengthening

Renovation and re-equipping of clinical laboratories to high standards

April to June 2007: AMREF laboratory audits in Kenya, Sudan & Ethiopia

Positive and recommendations prioritized and gradually implemented



DNUSs for Neglected Dise.

Activities Research

- Facilitate multi-country, multi-centre studies
 - Paromomycin
 - AmBisome®
 - Miltefosine (in preparation)
 - Regional drug sensitivity testing
 - Others studies: cost effectiveness evaluations
- Regional pool of clinical trial expertise has been created
 - LEAP Platform serving as forum for members to share their clinical & research experience

Activities Adapting national guidelines

- The platform supports the review and roll out of VL National Guidelines for member countries
 - National Diagnosis and Treatment Guidelines in Ethiopia are being rolled out.
 - National VL treatment guidelines are available for Sudan and Kenya.
 - The Uganda VL treatment guidelines are about to be finalized.

DNDS for Neglected Dise

Activities Communications

- Communicating work of DNDi & advocacy for NTD s
 - Platform meetings, newsletters, stakeholders' meetings
- International dissemination of scientific results
 - Various presentations and symposia at key international meetings including RSTMH in 2007 and WorldLeish2009



Drugs for Neglected Dis

Lesson learned

- Difference in cultural backgrounds appreciated in order to continue working as a team
- Communication and frequent consultations key to success of platform & in steering activities
- A wide membership of the platform: MoH and regulatory authorities of member countries that provide desired support towards achieving the platforms objectives
- Each member institution appreciated as an equal partner that plays an integral part towards the success of the platform

LEAP would not be possible without funding from...

- Department for International Development (DFID), United Kingdom
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- Medicor Foundation, Liechtenstein
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- Other private foundations and individual donors who wish to remain anonymous.

By working together in a creative way, local partners, PDPs, private and public sector can bring innovation to neglected patients!



www.dndi.org



