Malaria Situation in Angola



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Outline

- Malaria Burden & Epidemiology in Angola
 - Statistics
 - Epidemiological Stratification
 - Trends in malaria morbidity & mortality in Angola
 - High Risk Groups
 - How and When Malaria Transmission Occurs
- Key Malaria Control Measures in Angola
- Partnership in Malaria Control in Angola
 - Progress to date
- Challenges

Statistics

- Malaria is the leading cause of morbidity and mortality in Angola, accounting for:
 - 60% of under five hospital admissions
 - 35% of under five deaths
 - About 2.5 Million clinical episodes a year
 - About 10,000 deaths a year
 - First cause of under-5 deaths
 - Important indirect cause of maternal mortality (40%)
 - Case fatality rate varies between 15-30%
 - 90% of cases due to P. falciparum, 7%, P. vivax, 3% P. malarie and ?% P. ovale (needs update)
 - High risk groups: Children <5yrs and Preg. Women

Epidemilogical Stratification



Trends in Malaria Incidence in Angola, 1999-2007



Source: MoH'S HMIS

Trends in Malaria Related Deaths in Angola, 1999-2007



Source: MoH'S HMIS Luanda: 26 February 2009 6

High Risk Groups

- Children Under the age o 5 years
 - Why?
- Pregnant Women
 - Why?
- PLWHA
 - Why?
- Rural Population
 - Why?

How and When Malaria Transmission Occurs

- All 4 malaria species transmitted through bites by female anopheline mosquitoes
- The wet season is associated with increased malaria transmission
- Malaria transmission occurs mainly at night
- Malaria = "Paludismo"

Key Malaria Control Measures

- Prevention:
 - Use of Insecticide-treated mosquito nets
 - Indoor Residual Spraying of homes
 - What about DDT?
 - Intermittent Preventive Treatment of malaria in pregnant women with SP
 - Chemoprophylaxis for non-immune travelers;
 - Options include: Mefloquina (Eloquine, Lariam, Mephaquin),
 Doxicilina (Vibramicina), Proguanil (Paludrine) and
 Atovaquone+proguanil (Malarone) Please consult your Doctor before starting any chemoprophylaxis scheme
 - Alternatives

Key Malaria Control Measures

- Diagnosis
 - RDTs vs. Microscopy (gold standard)



Positive RDT



- Treatment:
 - Uncomplicated malaria: ACTs (Coartem® or Arsucam)
 - Severe/complicated malaria: Quinine

Major Stakeholders in Angola















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Main Donors

- Government of Angola: Increasing budget for Malaria
 - In 2008: acquired 1.5 million ACTs and ~400,000 LLINs
 - New Angola/Cuba, 2-year (2009-2010) Larviciding Initiative worth ~\$120 million
- US President's Malaria Initiative: a 5-year (2006-2010) >\$83 million Initiative for Angola (\$1.2 Billion for 15 African countries)
- Global Fund for the Fight Against TB/Malaria and HIV/AIDS: a 5-year (2008 -2012) \$78 million Malaria Control Program
- ExxonMobil, yearly providing \$1 million through USAID since 2006
- Among other Initiatives and Donors

Progress (partial data)

- In 2008:
 - >1.9 million LLINs distributed across the country via UNICEF (several donors)
 - >745,000 People protected through IRS under PMI
 - >3 million ACT treatments distributed under PMI
 - >750,000 RDTs distributed under PMI
 - 25 Microscopes with their respective microscopy kits, under PMI
 - >1100 Health workers trained in malaria diagnosis and/or treatment under PMI and ExxonMobil
 - >240,000 p. women received their 1st dose of SP and >185,000 received their 2nd
- Coverage Indicators: awaiting the ongoing MICS results

Monitoring & Evaluation

- 2006/7 Malaria Indicator Survey
- 2007 Entomological survey in Luanda and South
- 2007 Health Facility Survey in Huambo
- 2007 Survey on Quality of Diagnosis
- 2008 Luanda Survey
- 2008/9 Multi-Indicator Cluster Survey (ongoing)
- Sentinel Surveillance (ongoing)
- LLIN Lifespan (planned)
- Residual Effect of the IRS' insecticides (planned)
- Mosquito Resistance to Insecticides (planned)

Challenges

- HMIS data still weak
 - Most reported malaria cases based on fever
 - No age or gender stratification
 - Issues on completeness, timeliness and accuracy of data
- Gap between net ownership and usage
 - Why? misconceptions, behavioral factors, climate, etc..
- Issues on the Quality of Malaria Diagnosis
 - Example: 40% over-diagnosis and 20% under-diagnosis with microscopy
- Low training level of the majority of health personnel
- Need to improve coordination between the various departments within the MoH (IMCI, Reproductive Health, Health Promotion, INSP)
- Still weak supply chain including leakage of health products
- Malaria Control data-base

Thank You Any Questions?