



Collaborating on Phase IV studies

Registration and beyond

Curing Malaria Together www.mmv.org



Medicines for Malaria Venture

Changing Landscape



- Between 2008-2010 as many as four fix dose ACT from the MMV pipeline
- Many drugs entering into national policy
- Increasing widespread use
- Gap between sponsors and policy



What is in Phase III



- Artemether – Lumefantrine (AL) – Novartis
 - 62 million treatments delivered in 2006
 - pediatric formulation of Adult form registered in 1999
 - New formulation: dispersible tablet
 - Palatability study, PK study (healthy volunteers) and Phase III trial vs. crushed tablet (890 pediatric patients)
- Dihydroartemisinin – Piperaquine (DHA-PIP) - Sigma Tau, Holley, Oxford University
 - Chinese and Vietnamese versions widely used in SE Asia + numerous publications (3,500 patients exposed)
 - Adult and pediatric formulation
 - 3 PK studies (healthy volunteers, children with malaria and adults with malaria)
 - Two pivotal studies – one in African children (1500) and one in Asia adults (1150)



What is in Phase III



- Chlorproguanil-dapsone-artesunate - GSK
 - Chlorproguanil-dapsone registered as LapDap with the MHRA and registered in 14 African countries (low uptake)
 - New combination: LapDap with artesunate
 - Phase I trial (38) Phase II trial (340)
 - Two phase III trials: vs Artemether-Lumefantrine (1395) and vs Chlorproguanil-dapsone (900)
- Pyronaradine-Artesunate – Shin Poong
 - Pyronaradine is a known Chinese antimalarial developed in the 1970s with a few trials in Africa.
 - Pyronaradine-Artesunate: Phase I trial (125), 2 Phase II trial (477 and 60)
 - Three phase III trials, one vs. Artesunate +Mefloquine (1269) vs. Artemether –Lumefantrine (1269) and one for *P. vivax* vs. Chloroquine (456)



What do sponsors want in Phase IV?



Label extensions – defining the profile of the drugs – usefulness in:

Replacement first line for uncomplicated *Plasmodium falciparum*

Second line rescue therapy

Follow-on treatments for severe disease

Treatment of malaria in pregnancy

IPTp -IPTi - iPTc

Use in complex emergencies/displaced populations

P. vivax

Travellers' indications (travel and treat)



Conclusions of the Phase IV meeting

Amsterdam March 5, 2007



- Sixty invited participants – Consortia, WHO, EDCTP, Academia and Industry
- Diverse “immediate” needs lead to the formation of operational evidence generating “consortia”
- Funding remains a major issue
- Consortia play a major role in special areas:
 - ACT Consortium (broad aspects of ACTs)
 - Malaria in pregnancy (MIP)
 - IPTi Consortium
 - Phase IV Consortium (in the process of being defined) – Pharmacovigilance



Conclusions of the Phase IV meeting



- The Consortia will play a role in collecting/compiling of evidence for national and international malaria policy decisions
- Not all “needs” are covered by existing consortia or organizations (vivax, severe malaria, emergency intervention)
- Consortia do not have the means or expertise of developing tools (e.g. drugs) – mainly academics in the field
- Funding is not yet secured for the various initiatives
- **Highest priority for post registration study is drug safety especially for new drugs**



Phase IV meeting – Role of MMV moving forward



- MMV will interact with the consortia to identify and create tools where needed:
 - identify if current drugs in its pipeline might be useful for specific interventions
 - develop new drugs for specific needs
 - Work with sponsor in Phase IV and drug safety studies



MMV's added value in Phase IV



- MMV has a unique relationship with regulators and industry which is not there in the policy makers and consortia
- MMV can act as an advocate for the needs of its partners in the consortia while contributing to the activities of the research community





Thank you

Registration and beyond

Curing Malaria Together www.mmv.org



Medicines for Malaria Venture

