

## World Health Organisation & Medicines for Malaria Venture

Joint conference on  
**Artemisinin production and market needs: Meeting Global Demand**

25-26 June 2007 in Bangkok, Thailand

**Draft Agenda, 19 June 2007**

**Monday 25 June 2007**

Time	Session	Speaker
<b>08:00 -09:00</b>	<b>Registration</b>	
<b>09:00 -09.10</b>	<b>Welcome and official opening</b>	Dr Yongyuth Yuthavong, Minister of Science and Technology, Thailand
<b>09:10 -09:20</b>	Welcome by WHO, Thailand	
<b>09:20 -09:30</b>	Objectives and expected results	Dr Maryse Dugué, WHO Ian Bathurst, MMV
<b>09:30 -09:40</b>	Conference format outline, introductions, housekeeping	Malcolm Cutler
<b>09.40 -10.10</b>	The market of ACTs, trends and evolution	Dr Maryse Dugué, WHO
<b>10.10 -10.30</b>	<b>Tea/coffee break</b>	
<b>10:30 -11.00</b>	Prequalification and quality assurance requirements for API	Olivier Gross, Quality Assurance and Safety: Medicines (QSM), WHO
<b>11:00 -11:30</b>	The supply of artemisinin, trends and evolution	Jacques Pilloy, OTECI
<b>11:30 -12:00</b>	Good agriculture and collection practices for Artemisia	Yingrong Du, Traditional Medicine WHO
<b>12.00 -12.30</b>	Comparative assessment of artemisinin extraction technologies	Alexei Lapkin, Bath University
<b>12:30 -14.00</b>	<b>Lunch</b>	
<b>14.00 -15.00</b>	New technologies in artemisinin production and testing (3 presentations, 15 mins each) Discussion time	Malcolm Cutler, FSC / Maggie Smallwood, CNAP York Univ/ Tue Nguyen, IOWH
<b>15.00 -15.20</b>	Potential impact of new drugs development	Joerg Moehrle, MMV
<b>15.20 -15.40</b>	Stability Issues with Current and New Artemisinins in Relation to ICH Guidelines	Richard Haynes, HK University of Science & Technology
<b>15.40 -16.00</b>	<b>Tea/coffee break</b>	
<b>16.00 -17.10</b>	Group discussion on in-country experience with: - cultivation of <i>Artemisia annua</i> - production of API	Moderated by Malcolm Cutler
<b>17.10 -17.25</b>	ACT manufacturers' viewpoint	Ian Bathurst, MMV
<b>17.25 -17:30</b>	Wrap up	Ian Bathurst/Malcolm Cutler
<b>19:00</b>	<b>Banquet Dinner, Siam City Hotel</b>	<b>Courtesy Holley Pharma</b>

**Tuesday 26 June 2007**

Time	Session	Facilitator
08:30 -10:00	Group discussions	
10:00 -10:30	<b>Tea/coffee break</b>	
10:30 -12:30	Group discussions, continued	
12:30 -14.00	<b>Lunch Time for facilitators and rapporteurs to prepare presentation for plenary sessions</b>	
14.00 -15.20	Plenary session: Presentations from groups A and B Discussion	
15.20 -15.50	<b>Tea/coffee break</b>	
15:50 -17.10	Plenary session: Presentations from groups C and D Discussion	
17.10 -17.30	<b>Conclusions and next steps</b>	Ian Bathurst/ Maryse Dugué

**Proposed discussion topics for breakout groups**

Objectives: to identify problems and request/recommend action and/or research on the following topics:

**A. Artemisia *annua* Cultivation/Production**

1) Suggested areas for discussions:

- Varietal selection and development
- Agronomic concerns– field/climatic (also with reference to GAP guidelines).
- Levels and consistency of dry matter and artemisinin yield
- Harvesting methods – small holder and large estates
- Handling, storage and drying - " " " " "

2) Subjects/areas where there is a need for assistance and research.

**B. Artemisinin Analysis and Testing**

1) Suggested areas for discussion:

- In field testing needs
- The need for standard laboratory test procedures, instrumentation etc. i.e. provide consistent results
- Raw material sampling and handling procedures
- Upgrading of present artemisinin monograph?

2) Subjects/areas where there is a need for assistance and research.

### **C. Artemisinin Extraction and Purification**

1) Suggested areas of discussion:

- In field/storage/drying factors which could effect extraction efficiency
- Primary extraction needs – increased efficiency e.g. reduction in solvent losses, safety, environmental
- Purification – need to increase efficiency and cost – new technologies
- Potential for local derivitisation (GMP)
- Potential for other product extracts from Artemisia
- Need to identify other product extractions to maximise cost effectiveness of the extraction unit

2) Subjects/areas where there is a need for assistance and research.

### **D. Artemisinin and ACT Market**

1) Suggested areas of discussion:

- How best to bring consistency into the market i.e. supply/market balance
- Need for new perspectives e.g. artemisinin/ACT bank
- Size of future market through both public sector interventions and private sales
- Future trend to more locally produced ACTs (in Africa)

2) Subjects/areas where there is a need for assistance and research.