Joint INTERCOUNTRY WORKSHOP on Crimean-Congo Haemorrhagic Fever (CCHF) Prevention and Control
(Which strategies for the control of future outbreaks?)
Istanbul, Turkey, 6-8 November 2006

ORGANIZING INSTITUTIONS: World Health Organization (MZCP\textsuperscript{1}-EMRO\textsuperscript{2}-EURO\textsuperscript{3}-HQ\textsuperscript{4}) in collaboration with the WOAH-OIE\textsuperscript{5}, the FAO/UN\textsuperscript{6} and the ICTTD\textsuperscript{7}

**Purposes and Objectives**

**General Objective**
- To discuss the lessons learnt during last outbreak of CCHF and prepare guidelines to more efficiently respond during future VHF outbreaks notably regarding case management and social mobilization issues.

**Specific Objectives**
1. Review of the CCHF situation (epidemiology, laboratory diagnosis and the public health importance) in the European belt (WHO/EURO), the South Mediterranean and the Middle East regions (WHO/EMRO);
2. Review the CCHF clinic, the case management and infection control in hospital settings;
3. Understand the role and contribution of public health awareness, community participation and intersectoral effectiveness;
4. Review knowledge on ticks ecology and possible forecasting models for CCHF;
5. Develop coordinated regional and national multisectoral plans for integrated prevention and control of CCHF and control of risks-vectors of the disease.

**Provisional Programme**

**MONDAY, 6 NOVEMBER**

**08:15 - Welcoming remarks and presentation of the Workshop**
- **ARISTARCHOS SEIMENIS**, WHO/MZCC, Athens, Greece
- **HASSAN EL BUSHRA**, WHO/EMRO, Cairo, Egypt
- **ROBERTA ANDRAGHETTI on behalf of BERNARDUS GANTER**, WHO/EURO, Copenhagen, Denmark
- Representatives of Their Excellencies the Ministers of Health and Agriculture, Turkey

**Session 1. Outbreak Response: field epidemiology, prevention, surveillance and control**

**Chairpersons:** **ROBERTA ANDRAGHETTI on behalf of BERNARDUS GANTER, B. SWANEPOEL**

**08:30 - Surveillance and control of CCHF outbreaks worldwide**
**PIERRE FORMENTY**, CDS/EPR, WHO-HQ

**08:45 - Surveillance of VHF in EURO and EMRO regions: regional perspective**
**ROBERTA ANDRAGHETTI on behalf of BERNARDUS GANTER**, EURO and **HASSAN EL BUSHRA**, EMRO

**09:00 - Epidemiology, Surveillance and Control of CCHF in Kosovo**
**ISUF DEDUSHAJ** and **ISME HUMOLLI**, National Institute of Public Health of Kosovo, Pristina, Kosovo

**09:15 - Epidemiology, Surveillance and Control of CCHF in Pakistan**
**SYED SOHAIL ZAHOOR ZAIDI**, National Institute of Health, Islamabad, Pakistan

**10:15 - Surveillance and Control of CCHF in Iran.**
**SADEGH CHINIKAR**, Institute Pasteur, Teheran, Iran

09:45 - 10:15 Coffee-Tea Break

1 WHO/Mediterranean Zoonoses Control Programme, Athens, Greece
2 WHO/Eastern Mediterranean Regional Office, Cairo, Egypt
3 WHO/European Regional Office, Copenhagen, Denmark
4 WHO/Headquarters, Epidemic and Pandemic Alert and Response Department, Geneva, Switzerland
5 World Organization for Animal Health (OIE), Paris and Beirut
6 Food and Agriculture Organization/UN, Rome, Italy
7 Integrated Consortium on Ticks and Tick-borne Diseases, Utrecht, The Netherlands
10:30 - Surveillance and Control of CCHF in China.
LI DEXIN, China CDC, Beijing, China

10:45 - Surveillance and Control of CCHF in Bulgaria.
WILLIAM MONEY, Sofia, Bulgaria

11:00 - Surveillance and Control of CCHF in Turkey.
RAMAZAN UZUN, MoH, Ankara, Turkey

11:15 - Crimean Congo Haemorrhagic Fever - criteria for being an OIE listed disease.

Session 2. Laboratory diagnosis: from the field to the P3-P4
Chairpersons: S. CHINKAR, T. ASVIC,

11:30 - The current laboratory diagnosis techniques for CCHF: collection of samples, shipment of samples, biosafety considerations, analysis and its interpretation.
STEPHAN GUNTHER, Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany

11:45 - CCHF field laboratory during outbreaks: do we have a test for bedside diagnosis?
HEINZ FELDMANN, Special Pathogens Program, Health Canada, Canada.

12:00 - Analysis of the national and regional strategies for the CCHF laboratory diagnosis within EURO: what are the needs and where is the expertise.
MATHIAS NIEDRIG, European Network for Viral Imported Diseases, Berlin, Germany

12:15 - Analysis of the national and regional capacities for the CCHF laboratory diagnosis within EMRO
MARSHALL MONTEVILLE and KEN EARHART, NAMRU-3, Cairo, Egypt.

14:00 - 16:00 Discussion in plenary and recommendations for Session 1
Objectives: 
- case definition for CCHF surveillance: a syndrome approach
- case definition for CCHF during outbreaks
- consensus on a general strategy for outbreak response and control
- improving the country transparent reporting of CCHF cases in the framework of the new International Health Regulations

16:30 - 17:30 Discussion in plenary and recommendations for Session 2
Objectives: 
- The need for bedside diagnosis: a need for laboratory confirmation for Ribavirin treatment?
- Lab results should be included in the case definition?
- Decision tree for lab confirmation in the field?
- Practical field problems in collecting biological specimens, packaging and shipments from the field to nearest competent laboratory.
- Facilitating shipment of biological specimens across borders to globally recognized laboratories
- Distribution of all contact numbers of reference laboratories
- Support establishment of Regional reference laboratories.
- CCHF lab diagnosis: a national or a regional strategy?

TUESDAY, 7 NOVEMBER

Session 3. Clinical management and infection control for CCHF patients
Chairpersons: I. DEDUSHAJ, N. SHEIKH, O. ERGONUL,

08:00 - Risk factors and prevention strategy of CCHF in South Africa.
BOB SWANEPOEL, NICD, South Africa

08:30 - Recommended standard infection control practices during CCHF outbreaks
GLENN SCHNEPF, WHO-HQ, CDS/EPR, Geneva, Switzerland
**WEDNESDAY, 8 NOVEMBER 2006**

**Session 4. Social mobilization and health education: is prevention effective?**  
Chairpersons: P. FORMENTY, H. EL BUSHRA, S. RANDOLPH

08:00 - Communication strategy during the last CCHF outbreaks in Pakistan. KAP studies  
NADEEM SHEIKH, Bolan Medical College, Quetta, Pakistan

08:40 - Risk factors studies and prevention strategy of CCHF in Iran.  
SHAHROKH IZADI, MoH, Teheran, Iran

09:10 - Risk factors and prevention strategy of CCHF in Albania.  
S. BINA, National Institute of Public Health, Tirana Albania

09:40 - Risk factors and prevention strategy of CCHF in Turkey.  
LEVENT AKIN, MoH, Ankara, Turkey

10:00 - 10:30 Coffee-Tea Break

10:30 - What are the key messages for CCHF prevention and how to make them understood by the population: a COMBI approach.  
RAILI SUHAILI, WHO Mediterranean Centre for Vulnerability Reduction, Tunis, Tunisia.

10:50-12:30 Discussion in plenary session and recommendations.  
- Management of tick bite (or tick-human contact) through social mobilization
- Limit tick population through social mobilization
- Prevention: what should be the key message regarding tick bite, home care, safe injection, hospitalization and funerals?

12:15 - 14:00 LUNCH
Session 5: CCHF virus and ticks, population models and climate change
Chairpersons: F. Jongejan, Zati Vatanseven

14:00 - Epidemiology studies in South Africa.
Bob Swanepoel, NICD, Johannesburg, South Africa

14:20 - CCHF virus and its ticks worldwide
Frans Jongejan, University of Pretoria, ICTTD, Pretoria, South Africa and Zati Vatanseven, University of Ankara, Ankara, Turkey

14:40 - A forecasting model for Rift valley fever and other arboviruses in Africa: can a prediction tool help public health decision-makers?
Assaf Anyamba, NASA/Goddard Space Flight Center, Biospheric Sciences Branch, USA

15:00 - Predictive mapping applied to CCHF
Agustin Estrada-Pena, University of Zaragoza, Zaragoza, Spain

15:20 - Environmental patterns and forecasting model for tick-born encephalitis: can we apply it to CCHF and Hyalomma?
Sarah Randolph, Oxford University, Oxford, United Kingdom

15:40-16:40 Discussion in plenary session and recommendations

Objectives:
- Testing predictive models will need intense collaboration between key countries and model makers
- What should be the strategy to "control" tick populations?
  Is a coordinate approach Pesticides + Social mobilization enough?

16:40 - 17:00: Break

17:00-18:00 Critical review of the recommendations and conclusion of the workshop