



MEETING "ARBOVIRUSES: AN INCREASING THREAT FOR TEMPERATE REGIONS"

26th / 27th of May, 2008

Organized by:

ISTITUTO SUPERIORE DI SANITÀ'
Department of Infectious, Parasitic and Immuno-mediated Diseases

N. ID. : 038D08

In the area of emerging infectious diseases, an important role is played by those viruses that are maintained in nature and transmitted to humans by a cycle that includes arthropod vectors. The particular ecological niche occupied by these viruses makes them a potential source of epidemics (such as West Nile virus and Hantaviruses in the United States). The natural cycle of maintenance in fact involves one or more species of hematophage arthropod carriers and a viremic host vertebrate able to expand the transmission. The particular geographical situation of Italy leads to the coexistence of different climates that are characteristic of both continental and subtropical areas, and this is reflected in the distribution of animal species and in particular the arthropods. In fact, in Italy are circulating viruses both of Central Europe origin such as the Tick-borne Encephalitis (TBE) virus and other viruses which are typical in the areas of the Mediterranean, such as viruses transmitted by phlebotomes. Moreover, the wide intercontinental transport and the tendency for citizens of Western countries to spend their holidays in tropical countries has greatly increased the number of people returning home suffering from a tropical disease. The largest number of cases is represented by Dengue. In Italy cases that reach the laboratory diagnosis of Dengue are about 50 each year, but it is likely that this number is widely underestimated. Finally, in the summer of 2007 in the province of Ravenna an outbreak of fever caused by the Chikungunya virus, transmitted by the so-called "tiger mosquito" (*Aedes albopictus*), took place. The origin of infection was detected in a traveller coming from India. It's obvious that early diagnosis of this kind of infection is of utmost importance in order to contain the spread of epidemics.

Monday, 26 May

9,00 **Registration**

INTRODUCTION TO THE MEETING (A. Cassone)

9,30 **Enrico Garaci** Presidential address

9,45 **Ministro della Salute** Saluto del Ministro della Salute

10,00 **Paola Verani** *Opening lecture*



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"Hystorical background of Arboviruses"

SESSION I

EPIDEMIOLOGY AND PREPAREDNESS (I)

CHAIRPERSONS: L. Nicoletti, G. Rezza

- 10,30 *Emergence of arboviruses*
Ann Powers
- 10,50 *Global surveillance and control of emerging arboviruses*
Jean Paul Chretien
- 11,10 *The role of CCM in the control of viral diseases*
Donato Greco
- 11,30 Break
- 12,00 *The response of Europe to arbovirus threat*
Evelyn Depoortere
- 12,20 *Preparedness to fight arboviruses*
Giuseppe Ippolito
- 12,50 Discussion
- 13,30 Lunch

EPIDEMIOLOGY AND PREPAREDNESS (II)

CHAIRPERSONS: G. Ippolito, D. Greco

- 14,30 *Ecoepidemiology of arboviruses*
Hervé Zeller
- 14,50 *Arboviruses in Mediterranean areas*
Antonio Tenorio
- 15,10 *The Italian experience in fighting the tiger mosquito*
Roberto Romi
- 15,40 *Hemorrhagic fevers*
Onder Ergonul
- 16,00 Discussion and Closing

Tuesday, 27 May

SESSION I

ARBOVIRUS DIAGNOSTICS

CHAIRPERSONS: C. Drosten, M.P. Landini

- 9,00 *Serological and virological methods of diagnosis of arbovirus infections*
Loredana Nicoletti
- 9,20 *Molecular methods of diagnosis*



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Marcus Panning

9,40 *Laboratory capacity for detection of arbovirus infections in Europe*
Matthias Niedrig

10,00 Discussion

SESSION II

BIOLOGY AND CONTROL OF ARBOVIRUS INFECTIONS

CHAIRPERSONS: C. Buonavoglia, S. Salmaso

10,20 *Virus evolution and the risk of epidemics*
Rémi Charrel

10,40 *The importance of virus-vector relationship*
Stephen Higgs

11,00 Break

11,30 *Arbovirus control in mosquito*
M. Dottori

11,50 Discussion

12,10 *Vector control and the International Health Regulation*
Max Hardiman

12,30 *The establishment and spread of West Nile virus in the United States*
Roger S. Nasci

13,00 Discussion

13,30 Lunch

SESSION III

DIAGNOSIS AND CONTROL OF ARBOVIRUS INFECTIONS: ITALIAN EXPERIENCE

CHAIRPERSONS: M.L. Moro, R. Cauda

14,30 *Imported arboviral infections in Italy*
Loredana Nicoletti

14,50 *Clinical findings in Arbovirus diseases*
Zeno Bisoffi

15,10 *Neurotropic arboviruses in Italy*
Maria Grazia Ciufolini

15,30 *CHIKV in Italy*
Giovanni Rezza

16,00 Discussion and Closing remarks
(convened by M.L. Moro, A. Cassone)



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Organizing Committee

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INFORMATION

Venue

Aula Pocchiari
Istituto Superiore di Sanità
Viale Regina Elena, 299
00161 Rome (Italy)

Official language

English

Participation at the event is free of charge.

Number of participants to the Meeting is limited to 200.

The application form, duly completed and submitted online at <http://www.iss.it/site/reg/> must be printed, signed and faxed to the Scientific Secretariat (06 49902813) by 20/05/2008 (namely the date of sending electronic mode). Applicants will be informed about the status of their applications through the online registration system.

The travel and living expenses are borne by the participant.

Attendance certificate

A certificate attesting the participation to the Meeting will be released to all attendants.

For any further information, please contact the Scientific Secretariat.

Date

Organizing Committee

ECM Declaration and authorisation of the programme by the President ISS

The legal representative of the Istituto Superiore di Sanità, structure organizing training events, aware that anyone issuing false statements is punishable under the Penal Code and special laws on the subject, declaring within the meaning and consequences of art. 48, paragraph 25, of D. L. 269/2003, converted into law on November 25, 2003, n.326 the absence of conflict of interests of the training described in this program that authorizes same.

Date

Enrico Garaci, President ISS
