



PARALLEL SESSION 3

International Meeting on Emerging Diseases and Surveillance 2009

Room: Park Congress / Ground Level

Saturday, February 14, 2009

08:30–10:30

VECTOR-BORNE VIRUSES IN THE 21ST CENTURY

Co-Chairs: Jesus Feris, Dominican Republic
Karim Ben Jebara, France

- 3.001 Dengue Transmission and Control
M.B. Nathan
Geneva (Switzerland)
- 3.002 Chikungunya Outbreaks: History and Lessons for the Future
R.N. Charrel
Marseille (France)
- 3.003 Urbanization of Yellow Fever
T. Monath
Menlo Park, CA (USA)
- 3.004 A Zika Virus Disease Outbreak on Yap Island
M. Duffy, T. Chen, T. Hancock, A. Powers, J. Kool, R. Lanciotti, M. Pretrick, M. Marfel, S. Holzbauer, C. Dubray, L. Guillaumot, A. Griggs, M. Bel, A. Lambert, J. Laven, O. Kosoy, A. Panella, B. Biggerstaff, M. Fischer, **E. Hayes**
Suva (Fiji), Noumea (France), Pohnpei, Yap (Micronesia), Barcelona (Spain), Fort Collins, CO, Atlanta, GA (USA)
- 10:30–11:00 **Coffee Break** (Ground Level AND First Level)



PARALLEL SESSION 4 • ORAL PRESENTATIONS

International Meeting on Emerging Diseases and Surveillance 2009

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NEW STRATEGIES IN EMERGING DISEASE SURVEILLANCE

Co-Chairs: John Brownstein, USA
Nilufar Rachmanova, Uzbekistan

- 4.001 Engaging Health Care Workers in the Early Warning and Response Functions Under the International Health Regulations
G. Thomson, T. Eckmanns, S. Eremin, A.P. Coutinho, M. Kivi, A. Tulisov, A. Jensen, R. Andraghetti
Copenhagen (Denmark), Berlin (Germany), Moscow (Russia), Porton Down (United Kingdom)
- 4.002 EpiSouth: Epidemic Intelligence and Early Warning System for Mediterranean Countries
F. Ait-Belghiti, **P. Barboza**, on behalf of WP6 steering group, St Maurice (France)



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- 4.003 Automatic Epidemiological Surveillance from On-line News in MedISys and PULS
R. Yangarber, R. Steinberger
Helsinki (Finland), Ispra (Italy)
- 4.004 A European Syndromic Surveillance Approach Based on Routine Emergency Care Data—First Results from the SIDARTHa Project
T. Krafft, **A. Ziemann**, L. Garcia-Castrillo Riesgo, M. Fischer, A. Krämer, F. Lippert, G. Vergeiner
Innsbruck (Austria), Hillerod (Denmark), Bad Honnef, Bielefeld, Göttingen (Germany), Santander (Spain)
- 4.005 EMPRES-i, an Integrated Tool for Early Warning and Disease Control
J. Pinto, **D. Beltrán Alcrudo**, S. De La Rocque, F. Larfaoui, G. Kondolas, L. de Simone, A. Le Menach, V. Martin, S. Von Dobschuetz, J. Lubroth
Beijing (China), Rome (Italy)
- 4.006 Democratizing Information Technology for Biosurveillance and Outbreak Investigation
K.D. Mandl, B.Y. Reis, J.S. Brownstein, C. Gilbert, L. Hadden, C. Kirby, B. Adida
Boston, MA (USA)
- 4.007 Monitoring International Outbreaks with an Outbreak Surveillance Database
N. Bryant, J. Lawrence, C. Wong, A. Jordan, H. Simons, J. Jones, D.R. Hill
London (United Kingdom)
- 4.008 The Role of Multinational Corporations in Surveillance and Control of Infectious Diseases
C.E. Johnson, **R.V. Lee**
Buffalo, NY, Fairfax, VA (USA)
- 4.009 Short Message Service Gateway as Tracking and Reporting Communication Tool During Active Highly Pathogenic Avian Influenza Surveillance in Bangladesh
L. Loth, M. Mahabub Ahmed, A. Hannan, M.A. Kalam, A. Stocchi, **J. Lubroth**
Dhaka (Bangladesh), Rome (Italy)
- 4.010 A laboratory-based dengue surveillance in Singapore
L.C. Ng, K.S. Lee, Y.L. Lai, T. Barkham, P. Aw, M. Hibberd, S.P. Khoo
Singapore (Singapore)
- 4.011 Predictive Vector-Borne Disease Surveillance: A Multidisciplinary Approach for the Early Detection and Response to Outbreaks
C. Witt, A. Anyamba, K. Linthicum, J. Grieco, L. Rueda, D. Foley, D. Schnabel, R. Sang, J. Richardson, S. Lewis
Nairobi (Kenya), Bangkok (Thailand), Gainesville, FL, Bethesda, MD, Greenbelt, MD, Laurel, MD, Silver Spring, MD (USA)
- 10:30–11:00 **Coffee Break** (Ground Level AND First Level)



EPI SOUTH

Epidemic Intelligence in Mediterranean Countries

Fatima Aït-Belghiti & Philippe Barboza,
for EpiSouth WP6 steering team (*).

Institut de Veille Sanitaire (InVS), France



WP6 steering team *.

B Aleraj¹, I Gjenero-Margan¹, E Anis², M Bromberg², R Haddadin³, S Hussein³, C Gauci⁴, A Fenech-Magrin⁴, J Maistre Mellilo⁴, M Youbi⁵, A Rguig⁵, D Lausevic⁶, Z Vratnica⁶, B Madi⁷, B Rimawi⁷, M Bejaoui⁸.

¹Croatia; ²Israel; ³Jordan ; ⁴Malta; ⁵Morocco ; ⁶ Montenegro; ⁷Palestine; ⁸ Tunisia.

EpiSouth : Network for communicable disease control in Southern Europe and Mediterranean countries

- Mediterranean countries share common history, populations, ecosystem...
- **Objective** : Improve communicable disease control
- **Start** : Dec. 2006
- **26 countries**





EpiSouth Framework

- **8 Work-packages (WP)**

- Hosted in European public health Institutes

- **4 technical WP**

- **Epidemic Intelligence & Cross-border (InVS, France)**
- Vaccine preventable diseases & migrants (NICPD, Bulgaria),
- Emerging Zoonoses (HCDCP, Greece)
- Training (ISCIII, Spain)

- **4 support WP**

- Coordination, dissemination, evaluation and networking, (ISS & AOP; Italy)



WP6 :Cross-border & Epidemic Intelligence

Network for Communicable Disease Control in Southern Europe and Mediterranean Countries

● Two components :

🌐 Cross Border

- ❖ Early Warning electronic platform
- ❖ Under development (pilot phase)
- ❖ Complementary with other systems WHO, ECDC ...

🌐 International Epidemic Intelligence

- ❖ Monitoring of health events of international importance

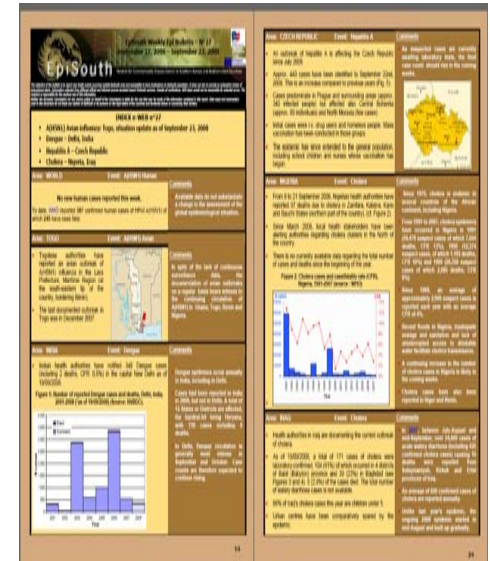


EpiSouth

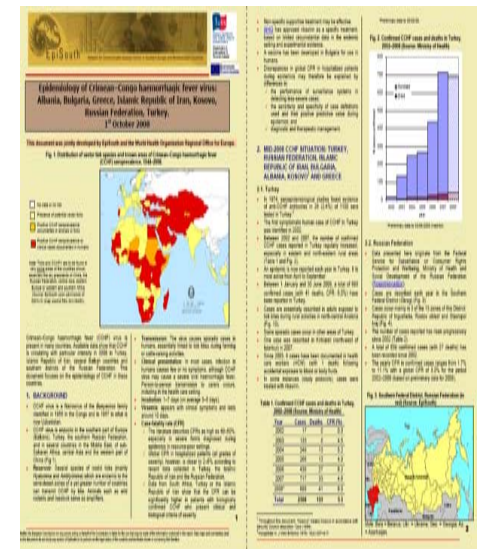
EpiSouth Epidemic intelligence

- Based on InVS (France) E.I. expertise
- **Signals Detection** via Internet
 - ▣ Official sources
 - ▣ informal sources (press, medias...)
 - ➔ **Dedicated EI tools:** Gphin, ProMed, MedYSis...
- **Signals selection** : Specific criteria
 - ▣ **Geographic** (global crises, priority areas...)
 - ▣ **Severity** (morbidity, mortality, risk groups, etc)
 - ▣ **Nature** (agent, resistance, virulence, etc)
- **Validation:** a crucial step!
 - ▣ Require a network (WHO, ECDC, MoH, etc)
 - ▣ Only verified information
- **Analyse:** description, context, mapping, risk analysis
- **Communication**

- **e-Web:** EpiSouth epidemiological weekly bulletin
 - ❑ Brief presentation of the situation
 - ❑ Analysis and risk analysis
 - ❑ English
 - ❑ From March 19th 2008 to date: **45 e-Web** editions
 - ❖ 191 events reported
 - ❖ 40 health related topics
 - ❖ 80 geographic locations

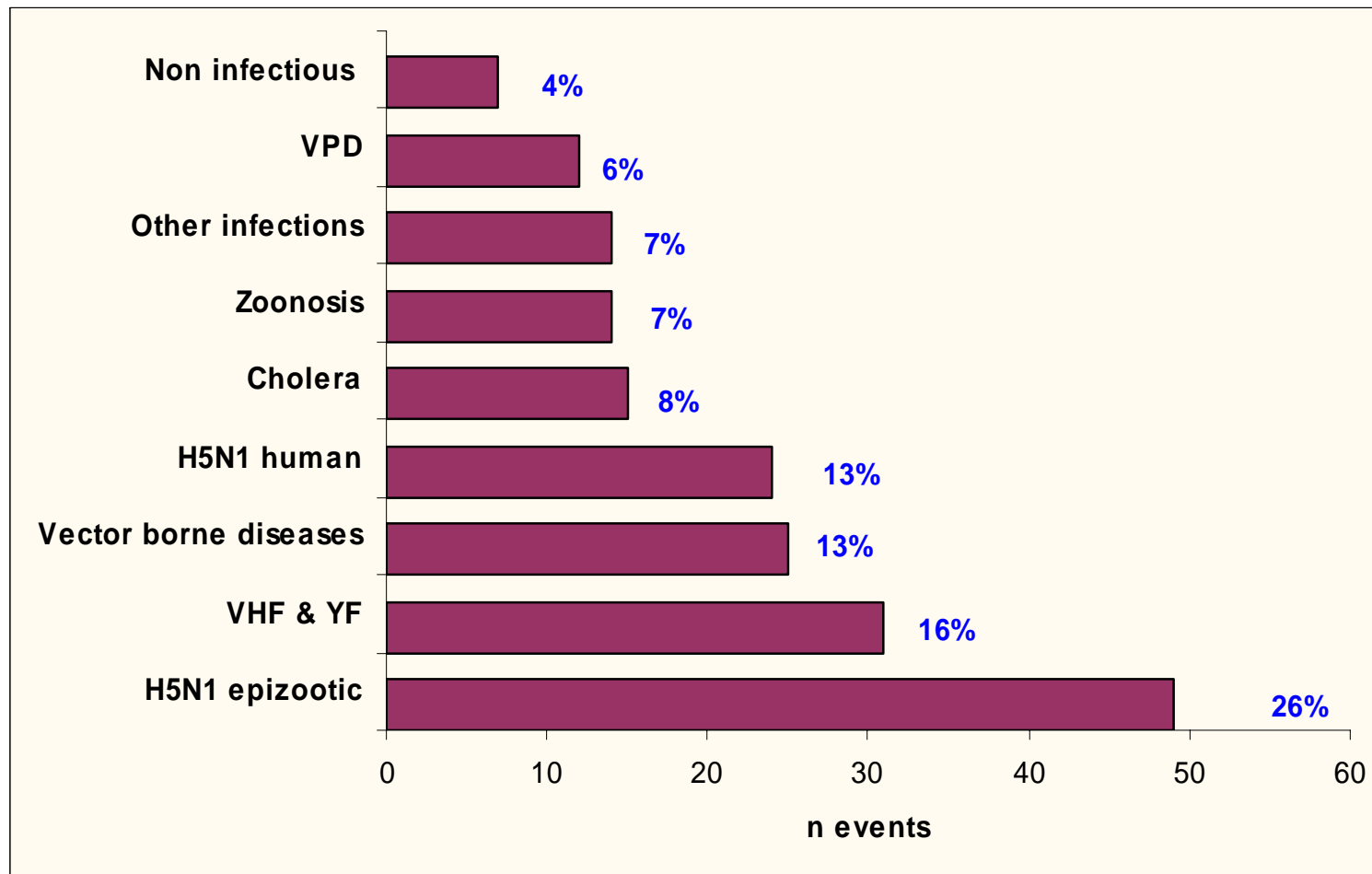


- **Thematic *ad hoc* Notes**
 - ❑ More complex events
 - ❖ Disease not “well known”
 - ❖ Complex situation
 - ❑ Urgent messages
 - ❑ To date, 6 notes disseminated



Events reported in e-Web by health topic

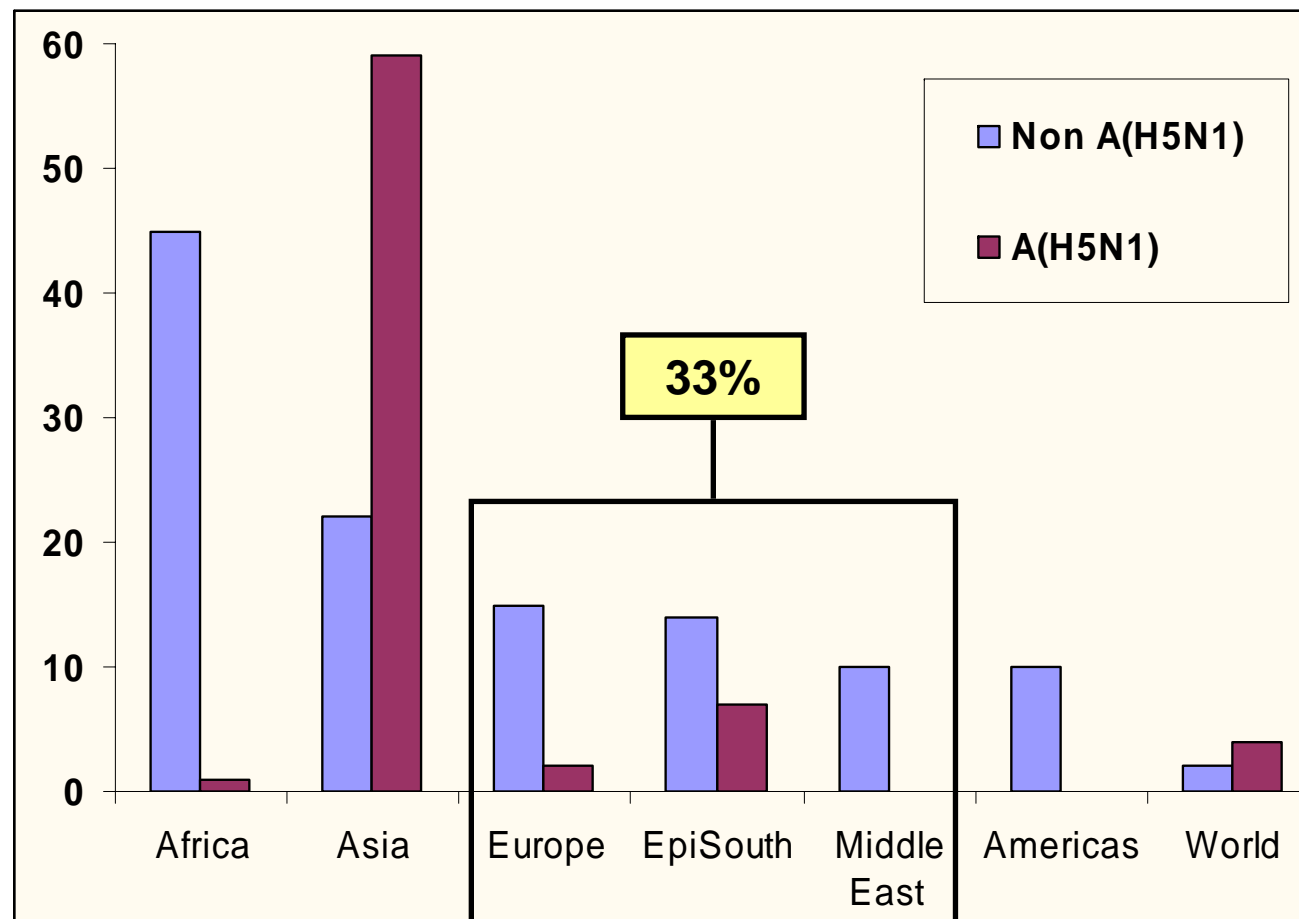
(March 19th 2008 - Feb. 3rd 2009)





Geographic distribution

Events reported in e-Web by health topic and geographic area. (March 19th 2008 – Feb 3rd 2009)



- Other Early warning systems
 - WHO Mandate (IHR 2005, WHO E.I., regional surveillance)
 - ECDC (Mandate for EU)
- Is information collected by other systems made available to countries?
 - Delay in validating information, political constrains
 - International versus regional health crisis
 - Despite qualities none addresses Mediterranean specific needs
- In practice, information flow **not sufficient.**
- EpiSouth EI: complement existing systems



Conclusions

- Project under construction and in constant evolution
- Limit duplication
 - Sharing information all ready collected and validated
 - Resources not evenly distributed
 - Concerns generated by health crises are similar
- EpiSouth EI: complement existing systems
- Close collaboration & strong partnership
 - Countries, WHO, ECDC, EU networks
- Next step voluntary and active information exchange (secure platform)
- EpiSouth could contribute to quicker/more effective responses to health threats in Mediterranean area.

