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Cost-effectiveness assessment of European influenza human pandemic alert and response strategies

NEWSLETTER 2

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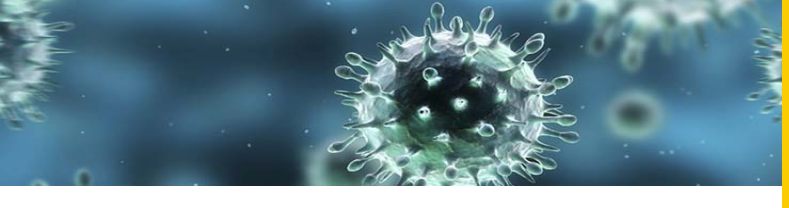

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Typology of human influenza pandemic scenarios in Europe (WP4)

Workpackage 4 was dedicated to develop a typology of various scenarios of human pandemic. In order to define a set of possible pandemic scenarios, the following tasks have been carried out: literature review, review of technical national and international reports , review of available information from other EC founded projects.
8 virus related parameters were selected as candidates to be relevant in the pandemic scenario description. At the same purpose, a comparison among the main European national and international technical reports allowed the identification of 5 health system related parameters.
Severity profile of possible scenarios derived from the literature review and from the data collected in previous pandemics have been reported. This severity profile do not takes into account any mitigation or control measure and is similar to what already appears in technical reports dealing with pandemic fixed scenarios. What has been suggested is to consider a set of more flexible scenarios that is far from the classic scenarios structure used to date. Since the scenario severity profile could differ by each parameter, it has been considered also the severity profile by each parameter defined (e.g. low severity profile of transmission and with an high severity profile of virulence and medical resource utilization).
Moreover since these scenarios do not take into account the age profile of the population and the proportion of chronic medical conditions, it has been consider eda reasonable solution to retain the worst case scenario for at risk groups.
The final WP4 deliverable led to a comprehensive and original matrix of scenarios typology taking into account pandemic severity and capacity to respond. A scientific manuscript synthesizing this original approach is in preparation to be submitted in an international peer reviewed Journal.

Scientific communications

FLURESP communications have been presented in the following congresses :

- **4th ESWI Influenza Conference, Malta Sep 11-14, 2011**
- **European Health Forum, International health security, Gastein Oct 5th, 2011**

EVENTS

FLURESP Working meeting

Rome, November 3srt 2011

Organized at the Instituto Superiore di Sanita , this working meeting was dedicated to validate the assumptions and preliminary results of WP4. A number of potential criteria has been screened and discussed in the frame of their relevance in Public Health in general, and of the FLURESP objectives in particular. A candidate pandemic scenarios matriy has been discussed and enriched .

FLURESP Working meeting

Lyon, March 6thst 2012

A publication reference list related to the WP5 topic has been presented and discussed. A large part of this working meeting was dedicated to discuss the list of response and measures against human influenza pandemic.

The following public health interventions have been selected:

Interventions related to individual disease transmission :

Individual measures (hand washing, mask, etc.)

Societal interventions:

- Border control (quarantine, fever screening, border closure, etc.)
- Community infection control measures (school closure, class dismissal, staggering, Mask in public area, social distancing, limitation of public transports, etc.)

Interventions in health care facilities:

- infection control (mask N95, limitation of aerosols, etc.)

Vaccination programs

Antiviral distribution programs (preventive or curative)

Interventions related to level of care

- mechanical ventilation
- supportive care

Screening interventions

FLURESP beneficiary institutions

- **Université Claude Bernard Lyon 1, (main beneficiary) *France***
- **Université Paris Descartes, *France***
- **Instituto Vasco de Investigacion y Desarrollo Agrario, S*pain***
- **Retroscreen Virology Ltd, *UK***
- **Istituto Superiore di Sanita, *Italy***
- **Open Rome, *France***
- **Laurent Niddam Europai Közössegi Jogasz Iroda, *Hungary***
- **National Institute of Public Health, *Poland***
- **Institutul National de Sanatate Publica, *Romania***

Collaborating partners

- **World Health Organisation, Headquarter**
- **European Centre for Disease Prevention and Control**
- **University of Crete, *Greece***
- **Ministry for Health, Elderley and Community Care, *Malta***

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