

Guidelines for implementing syndromic surveillance Proposal for a syndromic surveillance strategy in Europe

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Context – Public health surveillance in Europe

Public-health decision makers face to a changing and complex environment

Emerging health situations and unprecedented level risk

Increase of cross-border mobility accelerating spread of diseases

Need more frequent requests for (near) real-time information and risk assessment

SyS can support cross-border surveillance

2005: WHO's International health regulations

require MS move towards an integrated, all-hazard approach covering a wide range of known and unknown communicable and non-communicable health threats

MS need: « to detect events involving disease or death above expected levels »

« to report all available essential information immediately »

« to assess all reports of urgent events within 48 hours »

SyS can help meet the new public-health surveillance requirements



Context: Organisations of Syndromic surveillance in MS

- 1. Different organisations in MS
- 2. Wide diversity of data sources

ED, ambulance dispatches,

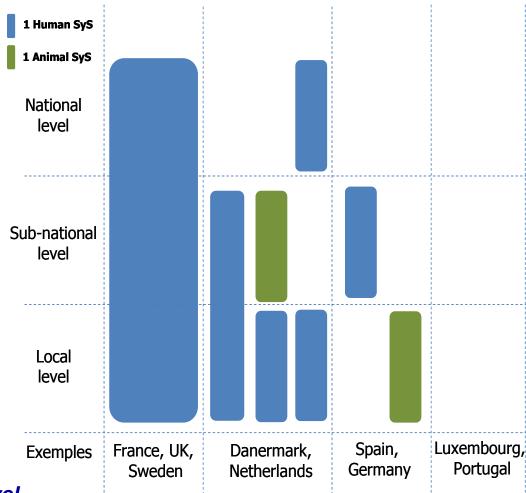
Primary care,

Telephone helpline calls

Web requests, ...

3. Surveillance objectives determined by the national priorities

→ A challenge for harmonisation and interpretation of health situations related to cross-border events at EU level



RIPLF...S

Syndromic Surveillance Systems in Europe

Actions of the 3-year project Triple-S

Two actions to increase the European capacity to monitor the health burden of the population:

- 1. To produce guidelines for designing, implementing and improving SyS system <u>in</u>

 <u>Member state</u>
- 3. To propose a European strategy for syndromic surveillance towards comparability of findings from MS <u>at a European level</u>



1. Guidelines for implementing syndromic surveillance (SyS) systems in member state (MS)

Who are these guidelines for?

Local / regional / national professionals who do public-health <u>human and animal</u> surveillance

Objectives:

- To support the design and to provide *practical* recommendations at each step of the set-up, use and assessment of a SyS system in a <u>country (or region)</u>,
- Illustrated with various examples of initiatives from European countries
- Include minimum requirements for developing SyS systems and reporting surveillance findings

Content of the Guidelines:

- Objectives and reasons for implementing a SyS system in a country or region
- How to collect data? Which data sources? How to manage the data?
- How to analyse data?
- How to communicate the results?
- How to evaluate the SyS system?

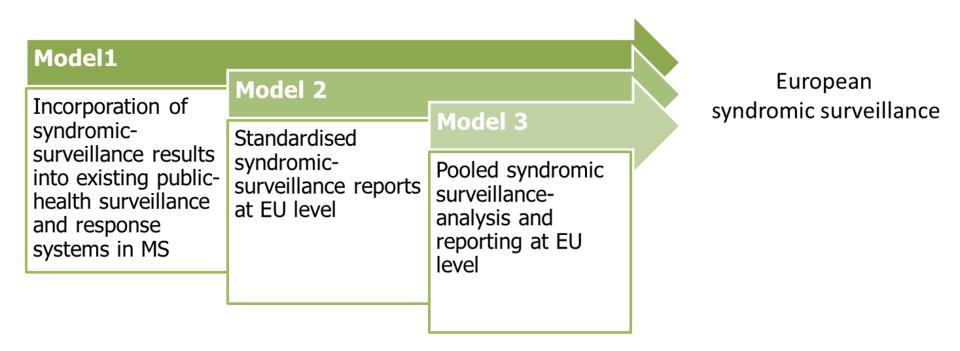


2. Proposal of a European strategy for SyS

- Target audiences: European, Local/national public-health authorities and public-health professionals (both human and veterinary)
- Objective: propose a strategy for enabling comparability <u>at the</u>
 <u>European level</u> of reporting from national/regional SyS systems



Three progressive models for a European Syndromic surveillance



Parallel implementation of the three models is proposed, depending on the objective of surveillance and on data comparability.



A necessary « Syndromic coordination group »

Aim: to coordinate actions and to act as a focal point for both Member States and European authorities

Composition: SyS experts in Human and Animal health

- an advisory group
- an operational group: centralisation and interpretation of findings from MS

Main tasks depending on the models:

- advice member states and EU institutions on using and improving syndromic surveillance according to the Triple-S guidelines for implementing SyS
- Promotion of comparability of findings by providing central interpretation and dissemination of member states' SyS outputs
- analysis centrally collected data from MS on certain specific syndromes for comparable and timely cross-border surveillance



Role and actions of SyS coordination group

Model 1:

- Support setup and improvement of SyS systems in MS,
- Provide advice on SyS to EU institutions
 - → No data or report on SyS is compiled at the EU level

Model 2:

- Develop standards for reporting findings from MS
- Centralise and compile the reports provided by MS to fed into existing EU-level information systems
 - → No data but findings sent to the EU level

Model 3:

- Develop standards for centralising standardised data from MS
- Analyse, interpret and report standardised SyS results from MS at the EU level
 - → Model used by EuroMomo for surveillance of mortality



Synergies with the other players

Member states

- Operate their own SyS systems: data collection, analysis and interpretation
- Report findings and provide local context for interpretation

European Union Institutions:

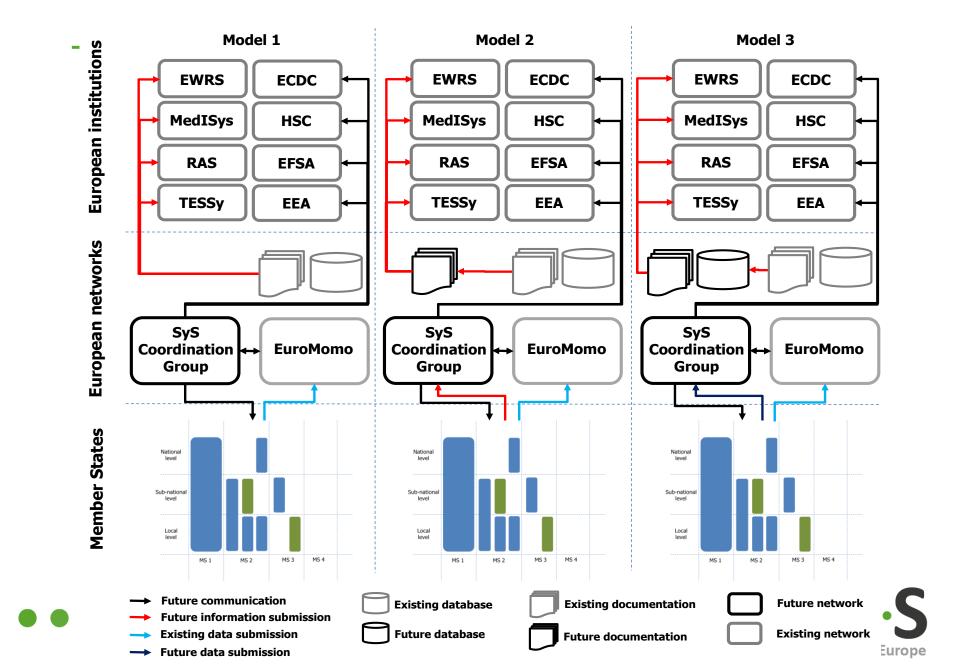
- Support incorporation of SyS-based findings into existing EU level information systems
- Enable direct connection with EU decision-makers on surveillance and alerts
- Support knowledge transfer on SyS
- Support the setting-up and sustainability of the SyS coordination group

European public-health surveillance networks and health-information systems

Integrate SyS information from MS and SyS coordination group into existing health information systems



Which integration in the landscape of European public-health surveillance?



Conclusion

- Guidelines: a tool to help MS
 - to implement their own SyS
 - Meet the requirements of the WHO's Internal health regulations
- A proposal for a European syndromic surveillance strategy will aim at improving surveillance to reinforce public health action across Europe
- Based on a collaborative approach to achieve the best possible integration and cooperation with relevant stakeholders at the EU level
- An proposal to make the strategy as actionable, useful and cost-effective as possible
- → Role, shape and functioning of a SyS coordination group need to be defined.

