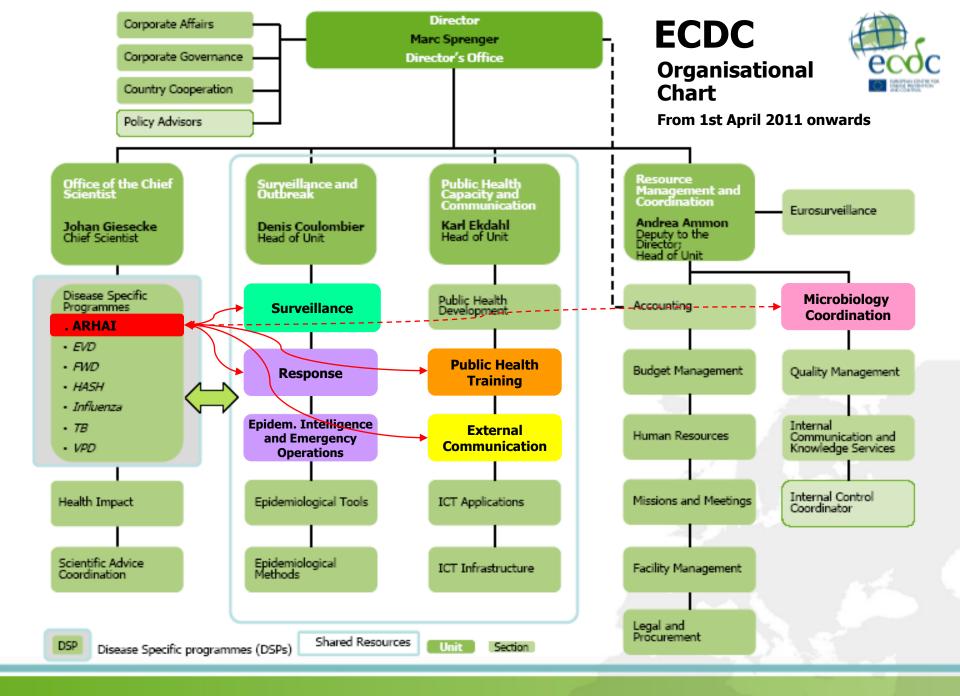




# Update on ECDC AMR & HAI activities and workplan 2012

Dominique L. Monnet (ECDC)

Radisson Blu Centrum Hotel Warsaw, 23-25 November 2011



### Coordination, 2011



#### **Network of National AMR Focal Points**

(representing national Intersectoral Coordination Mechanisms, i.e. National committees)

- Budapest, 21-22 March 2011 (including meeting with CMOs and CNOs on carbapenemaseproducing *Enterobacteriaceae*)
- Warsaw, 23-25 November 2011





### Coordination, 2012



#### • <u>Copenhagen, 13-15 March 2012</u> –

Session with contact points for AMR surveillance in *Salmonella* and *Campylobacter* (followed by EU Conference by Danish EU Presidency)

- ECDC workshop on AMR & HAI, candidate and potential candidate countries, May or June 2012 (tbc)
- Annual ARHAI Network Meeting, early December 2012 (location tbc)



### **Surveillance activities**

#### 2011-**2012**

- EARS-Net
- ESAC-Net
- HAI-Net
  - Surgical site infections
  - HAI in intensive care units
  - Point prevalence survey of HAI and antimicrobial use
- HALT-2: HAI and antimicrobial use in long-term care facilities
- Surveillance of *Clostridium difficile* infection



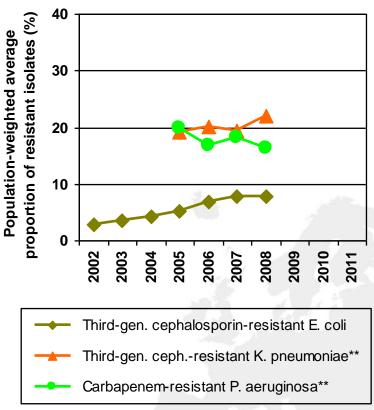
#### Population-weighted, average %resistant isolates among bacteria from bloodstream infections, EU, Iceland and Norway, 2002-2008



Gram-positive bacteria 40 40 proportion of resistant isolates (%) proportion of resistant isolates (%) Population-weighted average Population-weighted average 30 30 20 20 10 10 n 0 2010 2003 2008 2009 2002 2004 2005 2006 2011 2002 2003 2007 2004 Methicillin-resistant S. aureus (MRSA) Vancomycin-resistant E. faecium Penicillin-resistant S. pneumoniae\*

\*Excluding Greece, which did not report data.

#### Gram-negative bacteria



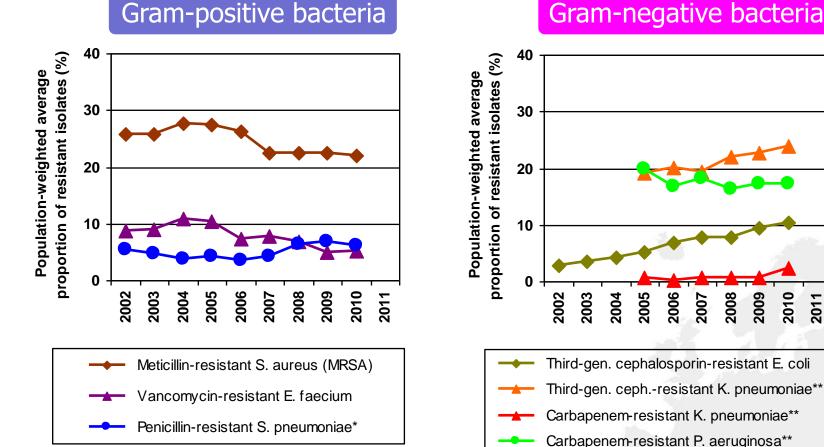
\*\*Excluding Belgium and Slovakia, which did not report data.

#### Source: EARSS & ECDC, 2009.

In: http://ecdc.europa.eu/en/publications/Publications/0909\_TER\_The\_Bacterial\_Challenge\_Time\_to\_React.pdf

#### Population-weighted, average % resistant isolates among bacteria from bloodstream infections, EU, Iceland and Norway, 2002-2010





#### Gram-negative bacteria

2008

2007

2009

2010

2011

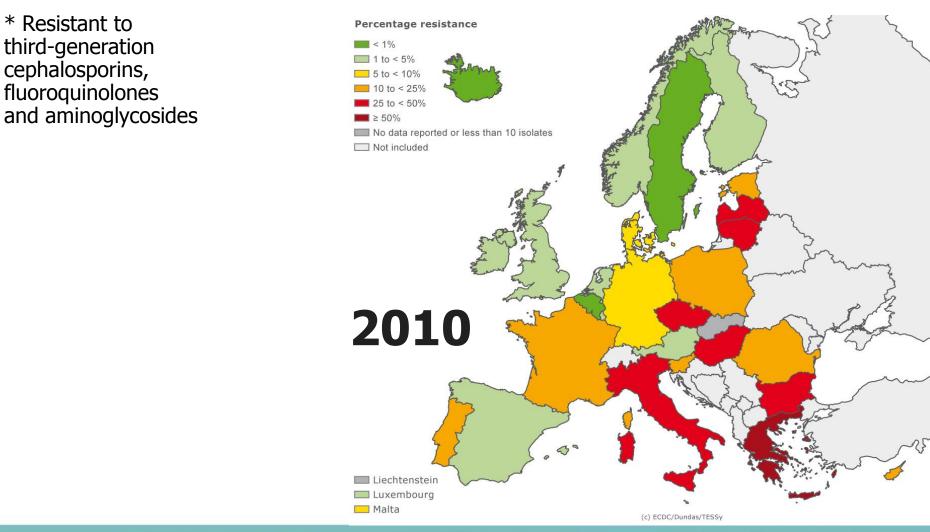
\*\*Excluding Belgium (2005-2008) and Slovakia, which did not report data.

\*Excluding Greece, which did not report data.

#### Source: EARSS/EARS-Net & ECDC, 2011.

Adapted from: http://ecdc.europa.eu/en/publications/Publications/0909 TER The Bacterial Challenge Time to React.pdf

#### *Klebsiella pneumoniae:* proportion of multidrug-resistant\* invasive isolates resistant; EU/EEA, 2010

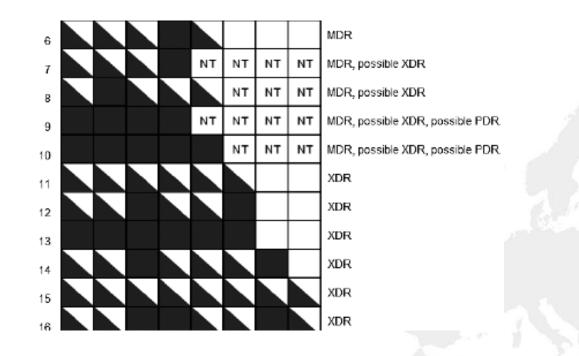


Source: EARS-Net, 2011



#### Multidrug-resistant, extensively drug-resistant and pandrug-resistant bacteria: an international expert proposal for interim standard definitions for acquired resistance

A.-P. Magiorakos<sup>1</sup>, A. Srinivasan<sup>2</sup>, R. B. Carey<sup>2</sup>, Y. Carmeli<sup>3</sup>, M. E. Falagas<sup>4,5</sup>, C. G. Giske<sup>6</sup>, S. Harbarth<sup>7</sup>, J. F. Hindler<sup>8</sup>, G. Kahlmeter<sup>9</sup>, B. Olsson-Liljequist<sup>10</sup>, D. L. Paterson<sup>11</sup>, L. B. Rice<sup>12</sup>, J. Stelling<sup>13</sup>, M. J. Struelens<sup>1</sup>, A. Vatopoulos<sup>14</sup>, J. T. Weber<sup>2</sup> and D. L. Monnet<sup>1</sup>



Source: Magiorakos AP, et al. Clin Microbiol Infect 2011 published online: 27 JUL

## **Epidemic intelligence and response support activities**



• Epidemic Intelligence Information System (EPIS) for AMR and HAI events

- Risk assessment (RA) on carbapenemase-producing *Enterobacteriaceae* (incl. guidance)
- Updated RA on New Delhi metallo-beta-lactamase (NDM)
- RA on triazole-resistant Aspergillus spp. (early 2012)

### **Systematic reviews and guidance for** prevention and control of AMR & HAI



- MRSA (hospitals and community) pending
- Organisation of hospital infection control programmes
  - 2011: systematic review of the effectiveness of hospital infection control programmes at local and national level
  - **<u>2012</u>**: guidance document
- Perioperative antibiotic prophylaxis
  - 2011: systematic review & expert group
  - **<u>2012</u>**: expert guidance on appropriate perioperative antibiotic prophylaxis (incl. quality indicators)
- Organisation of antimicrobial stewardship programmes – postponed



#### 2011: none

 Letter to the Editor of Lancet Infect. Dis. together with SANCO/C3 on "Antibiotics obtained without a prescription in the EU " (submitted)

#### <u>2012</u>:

- Part 1 of European survey on carbapenemase-producing bacteria (incl. capacity building, risk factors, etc.)
- Review of the economic impact of infection control and antimicrobial stewardship interventions



#### 2011:

Scientific support for developing country questionnaires on the implementation of Council Recommendation on patient safety, including the prevention and control of healthcare associated infections (2009/C 151/01)

#### <u>2012</u>:

Support on the finalisation of the report on the implementation of Council Rec. 2009/C 151/01

Support on the implementation of the Commission's 5-year strategic plan

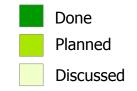
#### Country visits to discuss AMR (and HAI) issues: questionnaire, April 2011



- Has such a visit(s) already taken place in your country (since 2006)? Yes: 15/38 (39%), No: 23/38 (61%)
- <u>If YES</u>, how would you rate the value of this(these) visit(s) for your country? Very useful: 9/15 (60%), Useful: 3/15 (20%), Only slightly useful: 3/15 (20%)
- <u>If YES</u>, has there been any change in your country that you would consider as being a result of this(these) visit(s)?
  Yes: 12/15 (80%), No: 2/15 (13%), Do not know: 1/15 (7%)
- <u>If YES</u>, would you potentially be interested in a follow-up visit (provided that ECDC receives an official invitation from your country)? Yes: 12/15 (80%), No: 2/15 (13%), No opinion: 0, No reply: 1/15 (7%)
- <u>If NO</u>, would you potentially be interested in an initial visit (provided that ECDC receives an official invitation from your country)? Yes: 19/23 (83%), No: 1/23 (4%), No opinion: 2/23 (9%), No reply: 1/23 (4%)

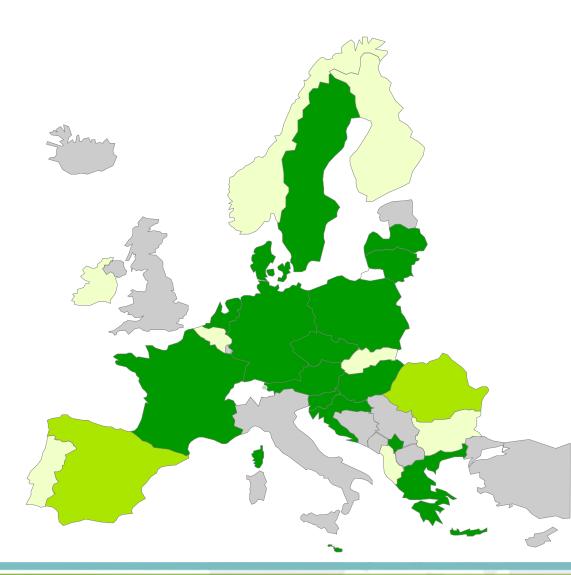
## Country visits to discuss AMR (and HAI) issues, 2006-<u>2012</u>





Country visits to discuss AMR (and HAI) issues (as of November 2011)

- Based on Council Recommendation of 15 November 2001 on the prudent use of antimicrobial agents in human medicine (2002/77/EC)
- Reports (observations, conclusions, suggestions, examples of best practice
- 16 initial visits (see map)
- 5 follow-up visits (Czech Rep., Greece x 2 and Hungary x 2)
- <u>3 visits budgeted for 2012</u>



## **Collaboration with other EU agencies**



- European Food Safety Authority (EFSA): Scientific Opinion on the public health risks of bacterial strains producing extended-spectrum β-lactamases and/or AmpC β-lactamases in food and food-producing animals http://www.efsa.europa.eu/en/efsajournal/pub/2322.htm
- EFSA & ECDC: European Union summary report on antimicrobial resistance in zoonotic and indicator bacteria from animals and food in the European Union in 2009 http://www.efsa.europa.eu/en/efsajournal/pub/2154.htm
- European Medicines Agency (EMA): European Surveillance of Veterinary Antimicrobial Consumption (ESVAC) http://www.ema.europa.eu (Regulatory > Veterinary medicines > Antimicrobial resistance > European Surveillance of Veterinary Antimicrobial Consumption)

#### <u>EU inter-agency report on antimicrobial resistance and</u> <u>antimicrobial consumption (2012-)</u>

#### CONTROL CONTROL CONTROL

#### 2011: WHO: World Health Day, 7 April 2011

ECDC represented at:

- European Parliament, Strasbourg (Marc Sprenger)
- WHO Europe event, Moscow (Piotr Kramarz)
- Copenhagen (Ole Heuer)

## <u>2012</u>:

Ongoing discussions on:

- Collaboration on surveillance of AMR
- Collaboration on European Antibiotic Awareness Day
- Collaboration on hand hygiene

## **Public health training activities**



- Assessment of infection control training capacity and needs in Europe (TRICE project), incl. core curriculum
  - 2011: report, incl. core curriculum pending
  - **2012**: implementation of strategy start
- Courses for point prevalence study of HAI and antimicrobial use in acute care hospitals in Europe ("training the trainers")
  - 2011: one course (London)
  - **<u>2012</u>**: one course
- European short course on control of multidrug-resistant microorganisms in healthcare settings
  - 2011: curriculum and training materials
  - **<u>2012</u>**: course postponed

#### **European Antibiotic Awareness Day:** questionnaire, April 2011



- How would you rate the value of European Antibiotic Awareness Day for your country? Very useful: 21/38 (55%), Useful: 16/38 (42%), Only slightly useful: 1/38 (3%)
- Has there been any change in your country that you would attribute to the momentum created by European Antibiotic Awareness Day (since 2008)? Yes: 25/38 (66%), No: 4/38 (10%), Do not know: 9/38 (24%)
- To your point of view, should European Antibiotic Awareness Day continue in 2012 and onwards? Yes: 37/38 (97%), No: 0, No opinion: 1/38 (3%)

## **European Antibiotic Awareness Day**



#### 2011:

- 37 countries participated, events in Brussels
- Translation of all materials
- Patient stories and Euronews movie
- Curriculum for training on campaigns

#### <u>2012</u>:

- Meeting with National AMR Focal Points (and communication contact points)
- 30s TV spot
- Discussions on EAAD integrated in country visits
- <u>Postponed</u>: Training on communication and campaigns for EAAD contact points in Member States

### Transatlantic Task Force on Antimicrobial Resistance (TATFAR): ECDC & CDC











Recommendations for future collaboration between the U.S. and EU

2011

#### <u>2012</u>

- •Common indicators for hospital antimicrobial stewardship programmes
- Standards for measuring antimicrobial use in hospitals
- Assessment of the evidence for effectiveness of communication tools
- Collaboration on point prevalence survey
- <u>Process for transatlantic communic.</u> <u>of critical events – new AMR trends</u>
- Efforts to harmonise interpretive criteria for reporting of AST for surveillance
- <u>Consensus evaluation tools for hospital</u> infection control programmes
- Transatlantic strategy to facilitate vaccine development for HAI

## "Hand hygiene and infection control initiative", 2012(?)-2013 onwards



- New initiative at ECDC, transversal project
- Connected to European Antibiotic Awareness Day
- Taking into account and building upon the work and materials from WHO's 1st Patient Safety Challenge "Clean Care Is Safer Care" and "SAVE LIVES: Clean Your Hands"
- Possible components:
  - Consensus indicators for infection control, incl. hand hygiene
  - Integrate the indicators in HAI-Net
  - HAI-Net module for hand hygiene compliance
  - Review on economic implications of infection control
  - Translation of key WHO materials in all EU languages
  - Support to hand hygiene national campaigns



## **Thank you!**



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