



Member States AMR One Health National Action Plans (NAPs)

NAP Review: Alignment with GAP objectives

Sara Tavares
Directorate F, Unit F5

Sub-group of the AMR One Health Network
- National Action Plans (NAPs)
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Alignment with GAP objectives

- **Objective 1 – *Improve awareness and understanding***
- **Objective 2 – *Strengthen the knowledge and evidence base through surveillance and research***
- **Objective 3 – *Reduce the incidence of infection through effective sanitation, hygiene and infection prevention measures***
- **Objective 4 – *Optimise the use of antimicrobial medicines in animal and human health***
- **Objective 5 – *Develop the economic case for sustainable investment that takes account of the needs of all the countries and increase investment in new medicines, diagnostic tools vaccines and other interventions***



Objective 1

Improve awareness and understanding

Awareness campaigns

Training

Objective 1

Improve awareness and understanding



Awareness campaigns

Target audience:

- *general public*
- *professionals*

Health professionals

Veterinarians and farmers

Communication approach:

- *Sectoral*
- *One Health*
 - *International days*
 - *National OH campaigns (some)*

Objective 1

Improve awareness and understanding

Awareness campaigns



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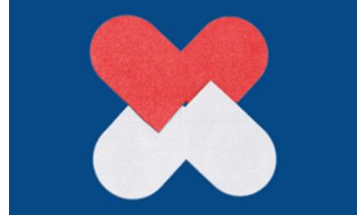
- ***One health approach***
- ***Push to improve impact through actions to:***
 - ***optimise communication strategies***
 - ***Improve impact of campaigns***

but...

- *Limited information*
- *One Health dimension - food sector but mostly environment under-represented (e.g. Inclusion of actions for/with environmental sector)*

Objective 1

Improve awareness and understanding



Training

- ***University curricula***

Graduate / post-graduate

- ***Continuous Professional development***

+ Human health professionals (IPC / Stewardship)

+ Veterinarians and farming sector but also other professionals

- Professionals in the environment sector

Objective 1

Improve awareness and understanding

Training



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- ***University curricula***
 - *One Health approach*
- ***Professional development***
 - *Engaging wider group of stakeholders*
 - *Targeting*

but...

- *Limited information on coverage, targets and timelines for actions proposed (role of operational plans)*
- *Coverage*
- *One health dimension - food sector but mostly environment under-represented*



Objective 2

Strengthen the knowledge and evidence base through surveillance and research



➤ *Surveillance*

Antimicrobial use – AMU

Antimicrobial resistance - AMR

➤ *Research*

➤ *Collaborative work*

Objective 2 - Strengthen the knowledge and evidence base through **surveillance**



Antimicrobial use (AMU)



National monitoring strategy

References to EU level surveillance

- ***Data collection***
 - *coverage (e.g. national, primary care, hospitals, LTCF)*
- ***Analysis and communication***



National monitoring

Reference to EU legal requirements

- ***Data coverage***
 - *Data on use / per species*
- ***Analysis and communication***

Objective 2 - Strengthen the knowledge and evidence base through **surveillance**



AMU

+

- **HH**

- *Expanding data coverage (e.g. private hospitals, Long Term Care Facilities)*
- *e-prescription*

- **AH**

- *Expanding data coverage ahead of Reg. (EU) 2019/6*
- *e-prescription*

but... limited information



- *National coverage*
- *Laboratory capacity/networking*
- *Digitalisation*

Objective 2 - Strengthen the knowledge and evidence base through **surveillance**



Antimicrobial resistance (AMR)



National surveillance plans

Participation in EU level surveillance (e.g. EARS-net)

- **National coordination / NRL**
- **Data analysis**
including trend analysis, identification of major gaps
- **Communication to policy/decision makers**



National monitoring system

EU harmonised monitoring

- **Additional monitoring**
species/production systems
- **Data analysis**
including trend analysis, identification of major gaps
- **Communication to policy/decision makers**



- **EU related surveillance**
- **Some ad-hoc environmental surveillance**
- **Research**

Objective 2 - Strengthen the knowledge and evidence base through **surveillance**



AMR

+

- *Expanding data coverage*
- *Linking data in a One Health approach*
- *Communication*
- *OH work on resistance pathways (surveillance and research)*

but...

- *Gaps in national coverage*
- *One Health data integration (including environmental)*
- *Communication and trends*



Objective 2 - Strengthen the knowledge and evidence base through **research**



Research

- *most references to **supporting research in general***
- *(half) specifically referring to **development of new medicines, diagnostic tools and vaccines***

*(+) **information on the financial investment in different research programs***

*(-) **One Health dimension***

Collaborative work

- ***EU level**
(e.g. **ESVAC, EARS-net**)*
- ***EU and beyond**
(smaller number)*

*(+) **clear objectives in terms of international actions in areas linked to AMR***

Objective 3

Reduce the incidence of infection through effective sanitation, hygiene and infection prevention measures



Infection prevention and control - IPC

Objective 3

Reduce the incidence of infection



- *IPC programmes*
- *Guidelines at national level*
- *Education and training*
- *Monitoring and audits of IPC practices*



- *Initiatives to encourage health plans at farm level*
- *Guidance by sector and for “other” species (e.g. horses and pets)*
- *EU control and eradication plans v national plans*

Objective 3

Reduce the incidence of infection



+


Human health

- *National guidance and networks of multi professional groups*
- *Actions specifically targeting Hospital Acquired Infections (HAI), including supervision*
- *Evaluation of compliance*

Animal health

- *specific actions targeting livestock keepers with high use of antibiotics*
- *encourage preventive measures (e.g. vaccination)*

but...

- *Limited information* 
- *Human health*
 - *national coverage*
 - *monitoring and audits of IPC practices*
 - *Innovative approaches*
- *AH - links to other plans & actions targeting aquaculture*

Objective 4 – *Optimise the use of antimicrobial medicine*



Objective 4

Optimise the use of antimicrobial medicine



Stewardship

- ***Stewardship programs (ASP)***
 - *stewardship teams in hospital settings*
 - *general practitioners*
- *Role of community pharmacists*
- *antimicrobial susceptibility testing (AST) requirements*
- *AWaRe classification*



Prudent use

- ***Treatment guidance***
- ***Benchmarking systems***
of antibiotic usage levels and prescription patterns >> targeting interventions
- ***Prophylactic and metaphylactic use***
(Role of EU legislation – VMP regulation)
- ***Few actions on AST requirements***

Actions to address counterfeit products/illegal online sales (human and animal health) – rarely included in NAPs

Objective 4

Optimise the use of antimicrobial medicine



Human health

- *Expanding diagnostic tests in primary care*
- *Benchmarking and targeted actions (e.g. guidelines for LTCF)*

Animal health

- *Benchmarking and targeted actions (high users)*
- *tools to assist with prescriptions, specific treatment/specific pathogens & encourage use AST*
- *Peer comparison*

but...

- *Limited information*
- *Coverage*
 - *National guidelines*
 - *Species (animal health)*
- *Use of diagnostic tools*



Objective 5

Develop the economic case for sustainable investment that takes account of the needs of all the countries and increase investment in new medicines, diagnostic tools vaccines and other interventions



Objective 5 – [...] increase **investment** in new medicines, diagnostic tools vaccines and other interventions



Less developed in OH NAPs

- Approximately half refer to strategy to ensure availability of antimicrobial agents
- Less include actions related to national incentives to develop and keep on market antimicrobial agents

(+) recent plans with actions on developing economic case for increased and sustainable investment

(-) Small number still without references to investment and innovation

Preparedness elements

In general not a frequent element in NAPs

- Some references to:
 - systems for early detection of outbreaks of highly resistance pathogens
 - strategy on availability of antimicrobial agents
- Less often:
 - monitoring shortages of antimicrobials
 - existence of stockpiles of crucial antibiotic agents
 - OH transversal groups ensuring early detection of signs of a new emergence of AMR threats

Thank you



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