



European Antibiotic Awareness Day: Promoting prudent antibiotic use in Europe

Dominique L. Monnet, Head of Disease Programme, Antimicrobial Resistance and Healthcare-Associated Infections (ARHAI) Joint PCWP-HCPWP Meeting, EMA, 15 March 2017

ECDC – European Centre for Disease Prevention and Control





- An agency of the European Union, located in Stockholm, Sweden
- Founded in 2005; nearly 300 employees in 2016
- Mandate to 'identify, assess and communicate current and emerging threats to human health from communicable diseases'
- European Union (EU) (28) and European Economic Area (EEA) (3) = 31 countries with a total of more than 500 million people

www.ecdc.europa.eu

This presentation



- 1. What is European Antibiotic Awareness Day (EAAD)?
- 2. Data on antibiotic use in Europe and the level of awareness of Europeans
- 3. Key targets, messages and material of the initiative
- 4. New toolkit for hospital settings
- 5. How to support the initiative and forward look

What is European Antibiotic Awareness Day

- European Antibiotic Awareness Day (EAAD) is a European health initiative marked across Europe on 18 November each year
- To raise awareness and promote prudent use of antibiotics
- The campaign builds on successful national campaigns to raise awareness about the threat to human health of antibiotic resistance and communicate about prudent antibiotic use
- EAAD was launched in 2008 with support from the European Commission, European Parliament, EU Member States and non-governmental health stakeholders across the EU

European Antibiotic Awareness Day: objectives



- Support national activities aimed at raising awareness of prudent antibiotic use among the general public as well as particular target audiences such as primary care prescribers and hospital prescribers
- Support national activities aiming at maintaining the efficacy of antibiotics and slowing down the emergence and spread of resistant bacteria.

European Antibiotic Awareness Day (EAAD) provides a platform and support to national campaigns about prudent antibiotic use in the community and in hospitals.

Special Eurobarometer "Antimicrobial Resistance", 2010, 2013 & 2016





"Antimicrobial resistance" **Nov-Dec 2009**

"Antimicrobial resistance"

May-June 2013

"Antimicrobial resistance"

April 2016

http://ec.europa.eu/dgs/health_food-safety/amr/projects/index_en.htm "Related information", "Eurobarometers"

Source: Special Eurobarometer surveys 338, 407 & 445, European Commission, 2009, 2013 & 2016.

Special Eurobarometer opinion poll, May-June 2013

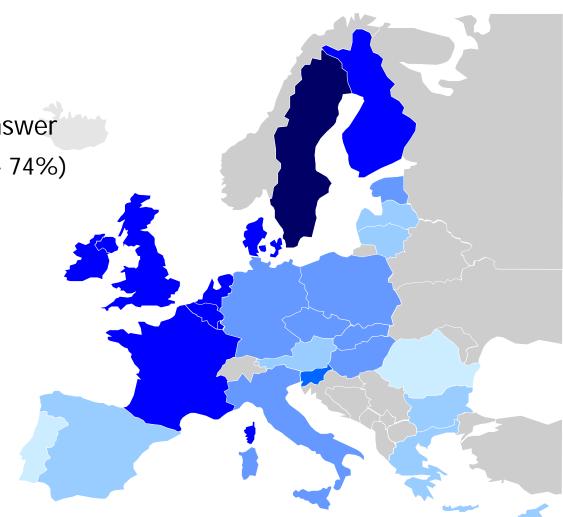


Antibiotics kill viruses.

True or false?

% respondents with correct answer (i.e., "false"): 40% (range: 15 – 74%)

≥70%
60 – 69%
50 – 59%
40 – 49%
30 – 39%
20 – 29%
<20%



Source: Special Eurobarometer 407 / 79.4 "Antimicrobial resistance", May-June 2013.

Special Eurobarometer opinion poll, April 2016

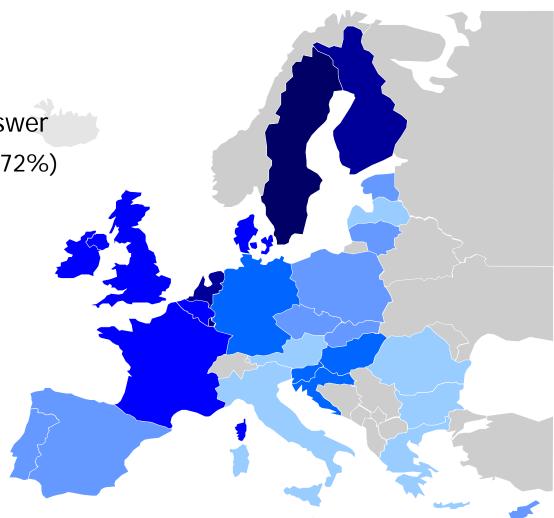


Antibiotics kill viruses.

True or false?

% respondents with correct answer (i.e., "false"): 43% (range: 20 – 72%)

≥70%
60 – 69%
50 – 59%
40 – 49%
30 – 39%
20 – 29%
<20%



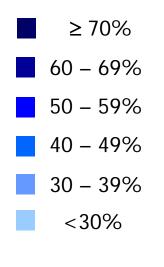
Source: Special Eurobarometer 445 "Antimicrobial resistance", April 2016.

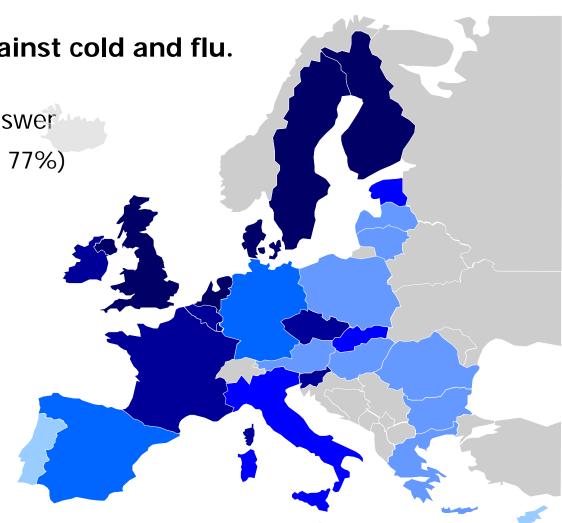
Special Eurobarometer opinion poll, May-June 2013



Antibiotics are effective against cold and flu. True or false?

% respondents with correct answer (i.e., "false"): 52% (range: 24 – 77%)





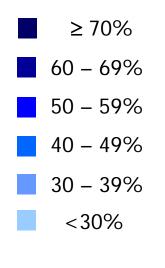
Source: Special Eurobarometer 407 / 79.4 "Antimicrobial resistance", May-June 2013.

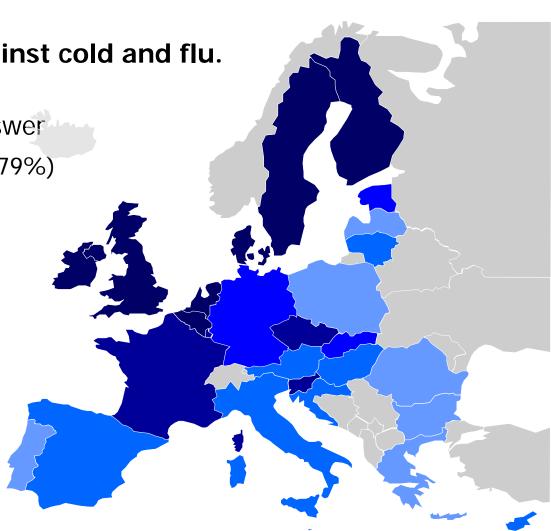
Special Eurobarometer opinion poll, April 2016



Antibiotics are effective against cold and flu. True or false?

% respondents with correct answer (i.e., "false"): 56% (range: 30 – 79%)



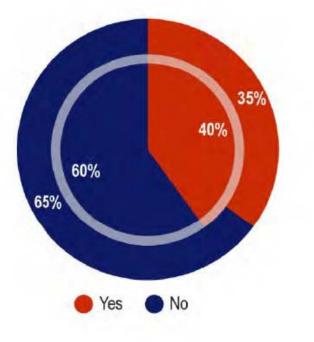


Source: Special Eurobarometer 445 "Antimicrobial resistance", April 2016.

Behaviour of European citizens, 2009-2013 oral antibiotics vs. smoking

Taking antibiotics

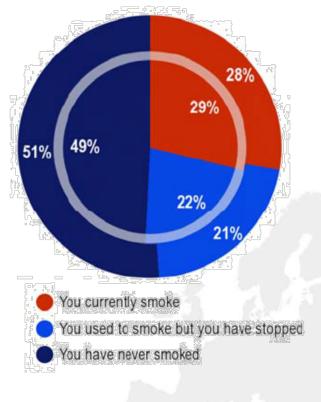
(orally, in the last 12 months)



Inner pie : 2009 (EB72.5 11-12) Outer pie : 2013 (EB79.4 05-06)

Smoking

(cigarettes, cigars or a pipe)

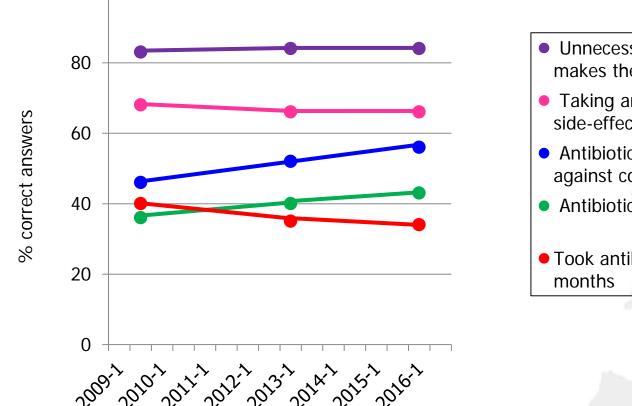


Inner pie EB72 3 Oct. 2009 Outer pie EB77 1 Feb -Mar. 2012

Source: Eurobarometer surveys, European Commission, 2009-2013.

Special Eurobarometer "Antimicrobial Resistance", 2010, 2013 & 2016





100

- Unnecessary use of antibiotics makes them ineffective
- Taking antibiotics often has side-effects such as diarrhea
- Antibiotics are [not] effective against cold and flu
- Antibiotics [do not] kill viruses
- Took antibiotics in the last 12 months

Source: Special Eurobarometer surveys 338, 407 & 445, European Commission, 2009-2016

Use of antibiotics during the last year, 2016



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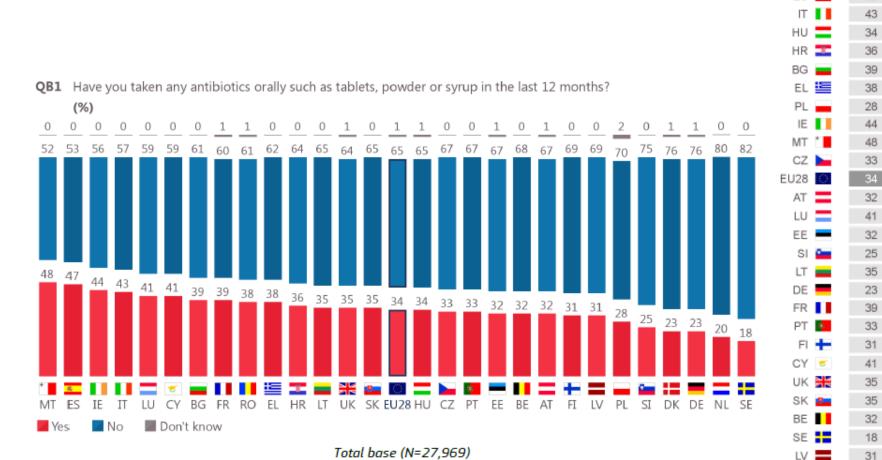
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Total base (N=27,969)

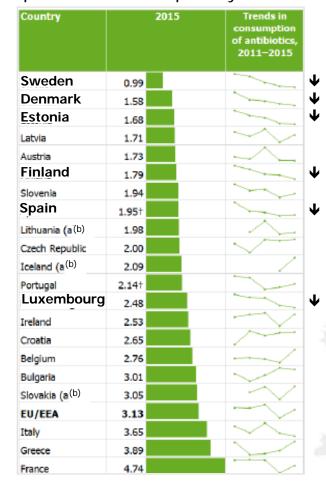
Source: Special Eurobarometer 445 "Antimicrobial resistance", April 2016.

Defined daily doses

(DDD) per 1000 inh. and per day

Antimicrobial consumption, 2011-2015 Netherlands 10.7 Estonia 11.6 Sweden 12.3 Latvia 13.3 Austria 14.0 Germany 14.3 Slovenia 14.5 Norway 15.8 Denmark 16.1 Lithuania 16.7 Hungary 17.0 Finland 17.2 Czech Republic 19.6 Iceland 19.9 United Kingdom 20.1 Portugal (a) 21.3t Bulgaria 21.4 Slovakia 24.5 Slovakia 24.5 Finland 25.6 Poland (a) 26.3 Italy 27.5 Belgium 29.2 France 29.9 Cyprus 31.1* Romania 33.3*	< / / I			1 3	
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Greece 36.1	Romania	33.3*			
	Greece	36.1		~	

Packages per 1000 inh. and per day





- * Total care data, including the hospital sector.
- Reimbursement data

 (i.e. not including consumption without a prescription and other non-reimbursed courses).
- (a) Countries that changed the type of reported data (reimbursement versus sales data) between 2011 and 2015.
- (b) Countries that did not report data for all years during the period 2011–2015.

Consumption of antibiotics for systemic use (ATC group J01) in the community, EU/EEA, 2011-2015

Source: ESAC-Net, 2016. The symbols \uparrow and \checkmark indicate a significant increasing or decreasing trend for the period 2011-2015, respectively.

Consumption of last-line antibiotics in the hospital sector, EU/EEA, 2011-2015 (2)



Carbapenems

(DDD per 1000 inh. and per day)

Country		2015	Trends in consumption of carbapenems, 2011–2015
Bulgaria	0.019		
Poland (a)	0.020		
Netherlands	0.021		
Latvia	0.033		· · · ·
France	0.035		\sim
Norway	0.039		
Hungary	0.046		
Lithuania (a)	0.046		
Slovakia (a)	0.048		
Romania	0.049*		
Estonia	0.050		
Sweden	0.050		
EU/EEA	0.054		
Italy	0.056		
Finland (b)	0.065		\sim
Belgium	0.065		1.
United Kingdom (a)	0.071		
Slovenia	0.072		~
Croatia	0.079		
Denmark	0.083		
Luxembourg	0.089		1
Ireland	0.091		
Malta	0.107		\sim
Cyprus	0.132*		
Portugal (c)	0.133		
Greece	0.137		

Polymyxins (mainly colistin) (DDD per 1000 inh. and per day)

Country	2015	5 Trends in consumption of polymyxins, 2011–2015
Finland (b)	0	· · · · · · · · · · · · · · · · · · ·
Lithuania (a)	0	· · · · · ·
Latvia	< 0.001	1
Norway	0.0007	
Sweden	0.001	\sim
Netherlands	0.003	\sim
Estonia	0.003	\sim
Bulgaria	0.004	
Luxembourg	0.005	\sim
Denmark	0.005	
Slovenia	0.005	~
United Kingdom (a)	0.006	
Belgium	0.007	\sim
France	0.007	
Ireland	0.008	
Hungary	0.008	
EU/EEA	0.015	\sim
Croatia	0.018	\sim
Malta	0.020	
Poland (a)	0.020	/
Portugal (c)	0.022	
Cyprus	0.023*	~
Slovakia (a)	0.024	
Italy	0.027	
Romania	0.034*	
Greece	0.095	

- * Cyprus and Romania: total care data, including consumption in the community. These data were not used to calculate the EU/EEA populationweighted average.
- (a) These countries did not report data for all years during the period 2011–2015.
- (b) Finland: data include consumption in remote primary healthcare centres and nursing homes.
- (c) Portugal: data relate to public hospitals only.

Source: ESAC-Net, 2016. The symbols ↑ and ↓ indicate a significant increasing or decreasing trend for the period 2011-2015, respectively.



Last-line antibiotics are failing: options to address this urgent threat to patients and healthcare systems

Source: ECDC, 2016

European Antibiotic Awareness Day, 2008-2017

- 2008Toolkit for the general public32 countries participated
- 2009 Toolkit for primary care prescribers
- 2010 Toolkit for hospital prescribers and and hospitals

Matched Get Smart week in the U.S. and the campaign in Canada

- 2011 Patient stories and Euronews movie Social media guidance
 - 37 countries participated
- 2012 Collaboration with WHO/Europe: 43 countries participated First EAAD Twitter chat Australia becomes a partner
- 2013 Start work on self-medication with antibiotics, with PGEU and CPME Training module and pilot course
- 2014 Revised toolkit for the general public on self-medication with antibiotics New Zealand becomes a partner European Twitter chat + Global Twitter conversation
- 2015 Participation in the first WAAW
- 2016 Start work on the update of the toolkit for hospital prescribers with professional organisations Policy briefing on AMR, translated in all EU languages
- 2017 Updated toolkit for hospital prescribers Event marking the 10th European Antibiotic Awareness Day













GET WELL WITHOUT ANTIBIOTICS



For more information, visit antibiotic.ecdc.europa.eu

Images from national campaigns on prudent use of antibiotics





Toolkit on self-medication with antibiotics



- Key messages
- Template letters to pharmacists and primary care prescribers
- Posters
- Animation
- Visual for pharmacy bag





Antibiotika. Bewusst einnehmen – und niemals gegen Erkältungen und Grippe.

EUROPÄISC ANTIBIOTIKA



Ist das ein wirksamer Schutz gegen Erkältungen oder Grippe? Antibiotika sind es auch nicht.

Antibiotika. Bewusst einnehmen – und niemals gegen Erkältungen und Grippe



Campaign targets developed so far





New! Toolkit for hospital settings: to be launched this year



- Update of the 2010 toolkit expansion of the target audiences
- Literature search of published guidelines, systematic reviews and original articles for the object of interest.
- Consultation with Technical Advisory Committee (TAC) members, including national representatives designated by the ECDC National Focal Points (NFPs) for Antimicrobial Resistance and NFPs for Communication, European Commission and WHO/Europe representatives, and health stakeholders mainly representing health professionals organisations.
- Focus groups in 6 countries *(following social marketing approach)*
- Timing of the launch: to the countries in April 2017 publicly on the website as from October 2017 and translated in all EU/EEA languages

What is in the new toolkit?



- Key messages
- Infographic on antibiotic stewardship (all target audiences)
- Letters for hospital managers, hospital prescribers, nurses, hospital pharmacists, hospital pharmaceutical committees / hospital antibiotic stewardship committees, infectious disease specialists, clinical microbiologists
- **Presentation** (all target audiences)
- Leaflets for hospital prescribers, infection control teams, nurses, for longterm care facilities
- **Checklists** for hospital pharmacists, junior doctors, microbiologists
- **Posters** for intensivists, emergency departments
- Factsheet for hospital pharmaceutical committees / hospital antibiotic stewardship committees
- Template social media info cards / fact cards / support cards

Key messages are the cornerstone of any communication campaign. They provide a set of water-tight statements, each of which is accompanied by a reference, that will be used as basis for the content of the template materials.



Antibiotic resistance

Facts and figures

Fact 1. Antibiotic resistance is an increasingly serious public health problem in Europe

The emergence, spread and selection of antibioticresistant bacteria is a threat to patient safety in hospitals^{1,2} because:

- Infections with antibiotic-resistant bacteria result in increased patient morbidity and mortality, as well as increased hospital length of stay+1;
- Antibiotic resistance frequently leads to a delay in appropriate antibiotic therapy⁶;
- Inappropriate or delayed antibiotic therapy in patients with severe infections is associated with worse patient outcomes and sometimes death¹9.

Figure 1. Trends of antibiotic resistance in S. pneumonioe and E. Coll as an EU population weighted average, 2002-2008. Source: EARSS, 2009.

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Fact 2. Misuse of antibiotics in hospitals is one of the factors driving antibiotic resistance

EUROPEAN

Patients who are hospitalised have a high probability of receiving an antibiotic and 50% of all antibiotic use in hospitals can be inappropriate³. ". Misuse of antibiotics in hospitals is one of the main factors driving development of antibiotic resistance¹¹⁴.

Misuse of antibiotics can include any of the followings:

- When antibiotics are prescribed unnecessarily;
 When antibiotic administration is delayed in
- critically ill patients; • When broad-spectrum antibiotics are used
- too generously, or when narrow-spectrum antibiotics are used incorrectly; When the dose of antibiotics is lower or higher
- When the dose of antibiotics is town of highly than appropriate for the specific patient;
 When the duration of antibiotic treatment is too
- short or too long; When antibiotic treatment is not streamlined according to microbiological culture data

As at December 2016

results.

Fact sheets



Antibiotics - Misuse leads to antibiotic resistance

Dear [Hospital Manager],

Antibiotic resistance is one of the most important threats to patient safety in hospitals in Europe. Antibiotic-resistant bacteria have become an evendary occurrence in many European hospitals where they affect patient safety, and increase patient morbidity and mortality as well as the average length of star in hospital.

As part of a European-wide initiative, we are contacting you to call for your support to fighting the alumming date in arbitrolic restance across European Center for Disease Prevention and Control (CECC) has, together with health-initiaterities across the European Union, Laurched European Artificiatic Awarenees Day, a European public health initiative which is mandad ensuity on 19 November.

This year, the European Antibiotic Awareness Day campaign focuses on working with hospital prescribers, pharmacentical committees, managers and pharmacists to reduce unnecessary antibiotic use in hospitals through supporting national campaigns.

Artiliation insistance is, as you know, a physiomerene Instal to the instant: and the way's which artibutics are used, and happropriate use of artifications is the main diver of artificiatic insistance. Studies show that happliated patients have a high probability of receiving an antibiotic: can include a number of factors and has been shown to cause patients to be compropriate. Misuse of antibiotics: can include a number of factors and has been shown to cause patients become colonical on infected with antibioticresistant becomes, such as merellion-esistant. Staph-/accours aurein (MRGA), succomponenesistent enterococci (WRI) and high-jenstant Gram-negative bacilly, as well an being associated with increased includer enterococci.

With antibiotic therapy being an important part of hospital care, and given the increase in antibiotic resistant bacteria, your contribution to the promotion of prudent antibiotic use in your hospital would be invaluable.

In order to support you in promoting prudent arbibidic use in year hospital, we have prepared a number of infornation and educational materials. These include a tachitated idealing the main issues surrounding antibidic resistance in hospital settings a side presentation which you may use in hospital trainings; and a checklist outlining the main considerations which prescribes must be into account.

The European Antibiotic Awareness Day website http://antibiotic.ecifc.europe.eu offers additional resources.

We would like to thank you in advance for your support and cooperation.

[Name]

Minister of Healthy [Country]

CIVILIATE Contact details: Address



Letters

Preview (2)





ppt

EUROPEAI

Using antibiotics prudently

Hospital prescriber presentation

[Insert Name of presenter] [Insert Name of hospital]

ANTIBIOTICS

USE THEM

WISELY





EAAD video on antibiotic resistance 07 Nov 2016

What is your contribution to fighting antibiotic resistance? – share your video pledges 04 Nov 2016

European Antibiotic Awareness Day receives the European Health Award 2016 29 Sep 2016



What is antibiotic resistance and prudent antibiotic use? How to use antibiotics responsibly? See patient stories, infographics, videos



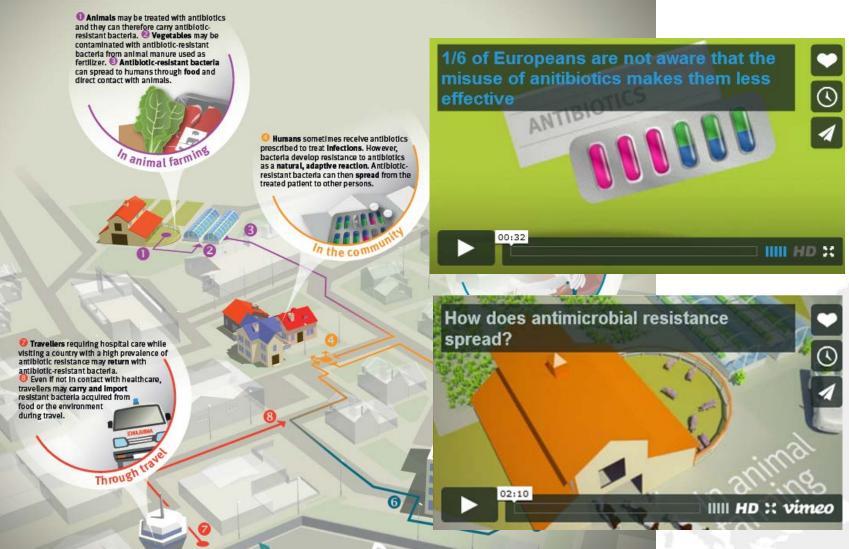
Planning a campaign to promote responsible use of antibiotics? Toolkits with template communication materials

How does antibiotic resistance spread?

Antibiotic resistance is the ability of bacteria to combat the action of one or more antibiotics. Humans and animals do not become resistant to antibiotic treatments, but bacteria carried by humans and animals can.





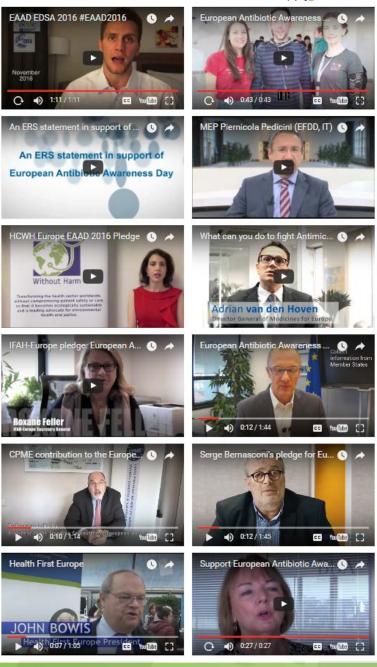


2016 Video pledges

From the following **organisations and individuals**:

- EDSA
- EPSA
- ERS
- MEP Piernicola Pedicini
- HCWH Europe
- Medicines for Europe
- IFAH-Europe
- CPME
- MedTech Europe
- Health First Europe
- CED
- UEMO

http://ecdc.europa.eu/en/eaad/antibiotics-get-involved/videc pledges/Pages/video-pledge.aspx



() Storify by livefyre@ https://storify.com/EAAD_EU/patient-stories

Search Stories...

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As seen on 🧱 ecdc.europa.eu

Patient stories

Stories of people whose lives were dramatically changed by antibiotic-resistant superbugs

by 📰 EAAD 19 days ago 794 Views 🗸

Several ways for your organisation to contribute to EAAD in 2017



- 1. Use the new toolkit translated in all languages
- Attending the press event in Brussels on 15 November (date tbc) and contributing the discussions on site and with social media
- 3. Shooting a video pledge
- 4. Promoting EAAD to your national member organisations
- 5. Promoting participation to the Global Twitter activities
- 6. Re-tweeting and sharing messages posted by ECDC on Facebook before EAAD that are relevant to you
- 7. Adding a banner on your website & communicating via your organisation's newsletter

Expectations and forward look: 2017 and onwards



- What should EAAD look like in the future?
- Would you like to be more involved?
- In which additional ways can we collaborate?

Thank you!

EUROPEAN ANTIBIOTIC AWARENESS DAY



A EUROPEAN HEALTH INITIATIVE

18 November 2017



E-mail: Website: Facebook: Twitter: Global Twitter: EAAD@ecdc.europa.eu http://antibiotic.ecdc.europa.eu EAAD.EU @EAAD_EU (#EAAD) #AntibioticResistance