

Bon Usage des Antibiotiques Perspectives Internationales

Solen Kernéis

Equipe Mobile d'Infectiologie

HUPC – Cochin, Université Paris Descartes

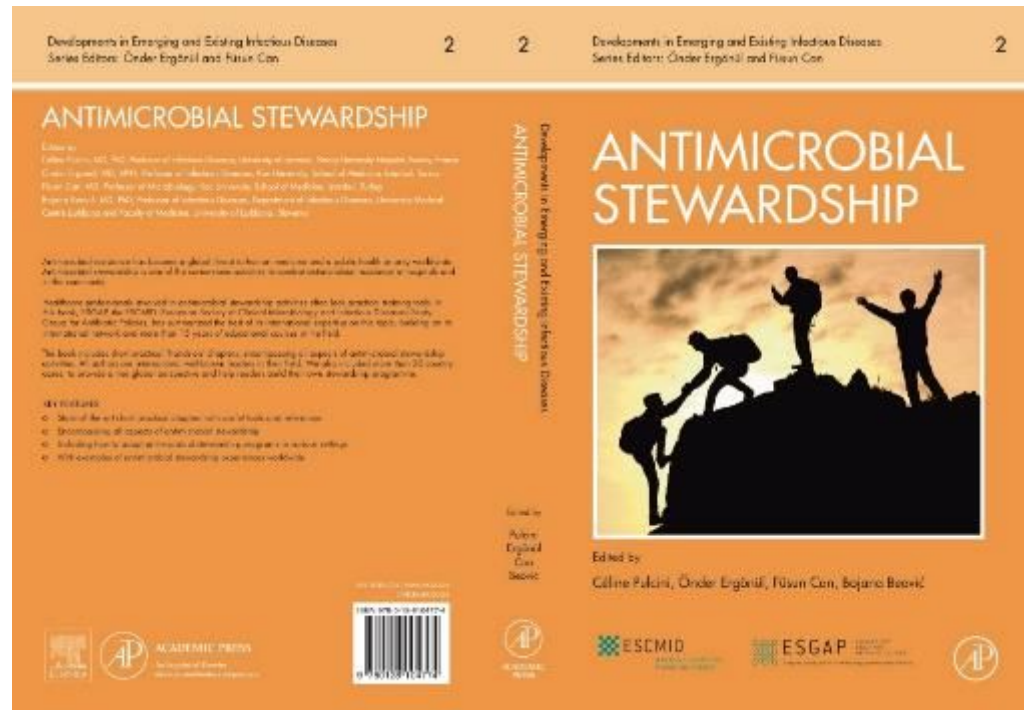
Crédit diapositives : Pr C Pulcini (Nancy)

Séminaire SPILF

19 octobre 2017

A very brief overview

- Two-day ESGAP courses
- ESGAP book



AMS = HOT TOPIC

3 main strategies to curb resistance



All settings, all professionals

AMS



Infection control
Environment



Vaccination

One Health approach



GENERAL ASSEMBLY OF THE UNITED NATIONS

President of the 71st session



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- SG Selection

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PRESS RELEASE: High-Level Meeting on Antimicrobial Resistance

21 September 2016 in Media, PGA Press Releases

OPGA/WHO/FAO/OIE Joint News Release 206



HIGH-LEVEL MEETING ON ANTIMICROBIAL RESISTANCE



21 SEPTEMBER 2016, UN HEADQUARTERS, NEW YORK

CALENDAR

September 2016

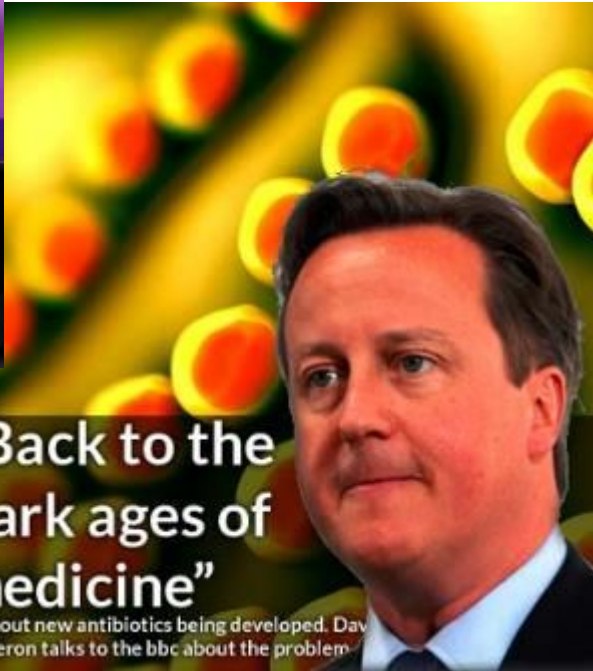
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26	27	28	29	30		
« Aug					Oct »	

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**“Obama
acknowledged
drug-resistance”**

Obama publishes US strategy to tackle rise in Antibiotic-Resistant Bacteria - is it enough?



**“Back to the
dark ages of
medicine”**

Without new antibiotics being developed. David Cameron talks to the bbc about the problem

?



OVERVIEW OF INTERESTING EUROPEAN INITIATIVES

WHO-Europe

European Commission

ECDC

E-Bug

WHO activities

- Newsletter
- Essential Medicines List
- Priority Pathogen List for R and D
- Point-prevalence survey methodology in hospitals
- Global Antimicrobial Resistance Surveillance System (GLASS)
- Interactive map showing progress of national action plans
- ...
- Actions coordinated in Europe by WHO-Europe

Priority 1: CRITICAL[#]

Acinetobacter baumannii, carbapenem-resistant

Pseudomonas aeruginosa, carbapenem-resistant

*Enterobacteriaceae**, carbapenem-resistant, 3rd generation cephalosporin-resistant

Priority 2: HIGH

Enterococcus faecium, vancomycin-resistant

Staphylococcus aureus, methicillin-resistant, vancomycin intermediate and resistant


Helicobacter pylori, clarithromycin-resistant

Campylobacter, fluoroquinolone-resistant

Salmonella spp., fluoroquinolone-resistant

Neisseria gonorrhoeae, 3rd generation cephalosporin-resistant, fluoroquinolone-resistant

European Commission (EU countries)



European Commission

A European One Health Action Plan against Antimicrobial Resistance (AMR)



European Commission

EU Guidelines for the prudent use of antimicrobials in human health



Health and Food Safety

ECDC Directory of Resources








You are here: [Portal Home](#) > [English](#) > [Health topics](#) > [Healthcare-associated infections](#) > [Directory: Guidance on prevention and control](#)

Directory of online resources for prevention and control of antimicrobial resistance (AMR) and healthcare-associated infections (HAI)



The directory lists strategies, guidance documents and training courses on the prevention and control of antimicrobial resistance and healthcare-associated infections available online. These documents were published by ECDC, EU/EEA Member States, international and national agencies and professional societies to support healthcare professionals, hospital administrators and public health professionals. In addition, the directory lists ongoing research projects and their corresponding websites. **ECDC welcomes suggestions and further information on existing guidance. Comments can be provided to: arhai@ecdc.europa.eu.**

					
Strategies, action plans, projects	Prevention and control of infections		Prudent use of antibiotics		Training
	Multidrug-resistant organisms and Clostridium difficile		Healthcare-associated infections		
Antimicrobial resistance strategies and action plans	Carbapenem-resistant Enterobacteriaceae (CRE)		Organisation of infection prevention and control		Training courses on infection control and hospital hygiene
Projects on antimicrobial resistance and healthcare-associated infections	Meticillin-resistant Staphylococcus aureus (MRSA)		Hand hygiene in healthcare		Training courses on antimicrobial stewardship
	Clostridium difficile (CDI)		Healthcare-associated and ventilator-associated pneumonia		Training courses on antimicrobial resistance

http://ecdc.europa.eu/en/healthtopics/Healthcare-associated_infections/guidance-infection-prevention-control/Pages/guidance-prevention-control-infections-caused-by-multidrug-resistant-bacteria-and-healthcare-associated-infections.aspx

European Antibiotic Awareness Day

EUROPEAN ANTIBIOTIC AWARENESS DAY A EUROPEAN HEALTH INITIATIVE

English (en)

ecdc

Plan a campaign For prescribers Get informed Get involved Campaigns in Europe News About

Do not self-medicate with antibiotics

New infographic

Patient stories

Last-line antibiotics are failing

What is antibiotic resistance?

Last-line antibiotics are failing
show latest data

How does antimicrobial resistance spread?

02:10

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

How to encourage your patients to use antibiotics responsibly? And how to manage antibiotic prescriptions in hospitals?
Materials for primary care and hospitals prescribers

Planning a campaign to promote responsible use of antibiotics?
Toolkits with template communication materials aimed at the general public, prescribers in hospitals and primary care

TWEET #EAAD2016

#EAAD2016

Pharmacy hospita ESA Retweeted

Portal Farma @PortalFarma

Lo que debes saber sobre las Resistencias Antimicrobianas #EAAD2016
portalfarma.com/ciudadanos/sal...
#AntibioticResistance

Lo que debe saber sobre las

Embed View on Twitter

WHAT'S NEW

<http://ecdc.europa.eu/en/eaad/Pages/Home.aspx>

European Antimicrobial Resistance Surveillance Network (EARS-Net)

The screenshot shows the EARS-Net website. At the top left is the ECDC logo (European Centre for Disease Prevention and Control). To its right is a search bar with a 'Go to Extranet' button and an 'Advanced Search' option. Below the logo is a green navigation bar with links for 'Health topics', 'Publications', 'Data & Tools', 'About Us', and 'News & Media'. The main content area has a breadcrumb trail: 'You are here: Portal Home > English > Health topics > Antimicrobial resistance and antimicrobial consumption > Antimicrobial resistance > EARS-Net'. The page title is 'European Antimicrobial Resistance Surveillance Network (EARS-Net)'. On the left is a sidebar menu with categories like 'Antimicrobial resistance', 'Surveillance Atlas of Infectious Diseases', and 'Antimicrobial consumption'. The main content area is divided into sections: 'SUBMITTING DATA' (with a link to 'EARS-Net Protocols and software'), 'REPORTS AND DATA' (with links to 'EARS-Net reports' and 'Surveillance Atlas of Infectious Diseases'), and 'ABOUT EARS-Net' (with links to 'About the network', 'Data collection and analysis', 'Organisations', 'Contact', and 'History'). Below this is a section titled 'About the network' which describes EARS-Net as the largest publicly funded system for AMR surveillance in Europe. It lists objectives such as collecting comparable AMR data, analyzing trends, providing timely data for policy decisions, and supporting national systems to improve diagnostic accuracy through external quality assessments (EQA). The final section is 'Data collection and analysis' with the heading 'How are the data collected and processed?'.

http://ecdc.europa.eu/en/healthtopics/antimicrobial-resistance-and-consumption/antimicrobial_resistance/EARS-Net/Pages/EARS-Net.aspx

Antimicrobial Consumption data (ESAC-Net)



ecdc European Centre for Disease Prevention and Control

Go to Extranet | Search... | Advanced Search

Health topics | Publications | Data & Tools | About Us | News & Media

You are here: Portal Home > English > Health topics > Antimicrobial resistance and antimicrobial consumption > Antimicrobial consumption

Antimicrobial resistance

- Publications and documents
- EARS-Net
- What's new

Surveillance Atlas of Infectious Diseases

Antimicrobial consumption

- ESAC-Net database
- Publications and documents
- ESAC-Net
- What's new

Antimicrobial Resistance and Healthcare-associated Infections Programme

Factsheet for health professionals

Factsheet for the general public

Directory: Guidance on prevention and control

Antimicrobial consumption

The use and overuse of antimicrobials is one of the main factors responsible for the development and spread of antimicrobial resistance. This has become a serious threat to public health, notably because of the emergence and spread of highly resistant bacteria, and because there are very few novel antimicrobial agents in the research and development pipeline.



European countries increasingly implement actions to control antimicrobial resistance in the community through rational use of antimicrobials, including awareness campaigns on the prudent use of antibiotics, such as the [European Antibiotic Awareness Day](#). Information on antimicrobial consumption in Europe, and in particular the consumption of antibacterials, can be an important source for healthcare professionals and policy makers monitoring progress towards a more prudent use of antibiotics.

ECDC, through ESAC-Net, collects and analyses antimicrobial consumption data from the community (primary care) and the hospital sector:

- ESAC-Net is Europe-wide network of national surveillance systems of 30 EU/EEA countries (28 EU Member States and two EEA non-EU countries: Iceland and Norway).
- The data on antimicrobial consumption in Europe are made available through an [interactive database](#) and [annual reports](#).

PUBLICATIONS

Point prevalence survey of healthcare-associated infections and antimicrobial use in European acute care hospitals – protocol version 5.3 13 Oct 2016

Public consultation: Proposals for draft EU guidelines on the prudent use of antimicrobials in human medicine 26 Jul 2016

NEWS

Last-line antibiotics are falling 18 Nov 2016

The future is now: Join 24-hour global Twitter conversation and #EAAD2016 live-event tweeting on 18 November 17 Nov 2016

European Antibiotic Awareness Day receives the European Health Award 2016 28 Sep 2016

EUROPEAN ANTIBIOTIC AWARENESS DAY

MORE ON THE ECDC SITE

- Healthcare-associated infections
- Directory of online resources for prevention and control of antimicrobial resistance (AMR) and healthcare-associated infections (HAI)

<http://ecdc.europa.eu/en/healthtopics/antimicrobial-resistance-and-consumption/antimicrobial-consumption/Pages/antimicrobial-consumption.aspx>

Guidance

- Proposals for EU guidelines on the prudent use of antimicrobials in humans
- http://ecdc.europa.eu/en/publications/_layouts/forms/Publication_DispForm.aspx?List=4f55ad51-4aed-4d32-b960-af70113dbb90&ID=1643

Point-Prevalence Surveys

- On healthcare-acquired infections and antimicrobial use in acute care hospitals
- http://ecdc.europa.eu/en/healthtopics/Healthcare-associated_infections/point-prevalence-survey/Pages/Point-prevalence-survey.aspx



Fun games and teaching resources about
microbes and antibiotics

Teachers

Students

Junior

Junior

Senior

Senior

Young Adult

Young Adult

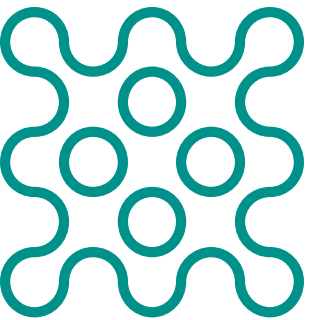
Teacher Home

Partners

Educator Training

Community Resources

Peer Education



ESGAP

ESCMID STUDY GROUP
FOR ANTIMICROBIAL
STEWARDSHIP

European Society of Clinical Microbiology and Infectious Diseases

Website

Home Contact Site

 **ESCMIID** MANAGING INFECTIONS
PROMOTING SCIENCE

MEMBERS & ORGANIZATION RESEARCH & PROJECTS PROFESSION & CAREER ESCMIID PUBLICATIONS DATES & EVENTS NEWS & MEDIA

Research & Projects

ECCMIID

ESCMIID Conferences

Study Groups

- Become SG Member
- Anaerobic Infections
- Antimicrobial stewardshipP**
 - Presentations & Publications
 - ABC Calc (AMC Tool)
 - Executive Committee
 - Mission & Objectives
 - Links
 - Statutes & Membership
 - Newsletters
 - ESGAP membership application
- Biofilms
- Bloodstream Infections and Sepsis
- Brain Infections
- Clinical Parasitology
- Clostridium difficile
- Critically Ill Patients
- Elderly Infections
- Enteroinfectious Diseases



ESCMIID **FIGHTING ANTIMICROBIAL RESISTANCE**

ESCMIID Study Group for Antimicrobial stewardshipP - ESGAP

News & Activities

11 May 2017
ESGAP has a new name
Antimicrobial stewardship has now become standard terminology (in English) worldwide to describe a set of actions/a programme aiming at ensuring responsible antibiotic use. ESGAP has changed its name accordingly from ESCMIID Study Group for Antibiotic Policies to **ESCMIID Study Group for Antimicrobial stewardshipP**.

05 April 2017
ESGAP @ ECCMIID 2017 in Vienna, Austria

- ESGAP Meeting, Sunday, 23 April, 18.15 - 19.15, Hall N
- ESCMIID AMS Competencies Meeting, Sunday, 23 April, 9.30 - 13.00, Hall R

<https://www.escmid.org/index.php?id=140>

Sharing experiences: ESGAP Open Virtual Learning Community

ESGAP ESCMID STUDY GROUP FOR ANTIBIOTIC POLICIES
European Society of Clinical Microbiology and Infectious Diseases

Antimicrobial Stewardship Open Virtual Learning Community

Login

- ◆ Login
- ◆ Forgot password
- ◆ Registration

AS-OVLC Principles of Antimicrobial Use AS Interventions Implementation of AS Education / Training Research

Relationship between antibiotic use and resistance: Shall we talk about thresholds and quotas?

By ESGAP-OVLC admin | 20 February, 2017 | No Comments

By Dr. Jose María López-Lozano MD, PhD in a worrisome scenario where not enough new antibiotics are expected to be available in the near future, it is critical to investigate approaches that ...

[Continue Reading →](#)

How can you help clinicians prescribe antibiotics more appropriately? Change the system and simplify their

Email *

Site Navigation

- ◆ Home Posts
- ◆ Posts RSS
- ◆ Comments RSS

Post Categories

- ◆ Articles & Journal Club (31)
- ◆ Debates (7)
- ◆ Events (23)
- ◆ News (32)
- ◆ OVLC (1)
- ◆ Resources (18)
- ◆ Surveys (7)

<http://esgap.escmid.org>

OVERVIEW OF INNOVATIVE NATIONAL ACTIVITIES

Health system level

Health-care professionals

General public

Interventions at the health system level

- Antibiotic stewardship cross-sectoral networks
- Restrictive measures
- Accreditation/Certification of hospitals
- Pay-for-performance
- Public reporting

Cross-sectoral networks



Swedish work on containment of antibiotic resistance

Tools, methods and experiences



AMR local indicators

Supporting NHS England Initiatives

Antimicrobial Resistance

Antibiotic Prescribing

Health Care Associated Infection

Infection Prevention and Control

Antimicrobial Stewardship

All Trust

All Clinical Commissioning Group

Overview
Compare indicators
Map
Trends
Compare areas
Area profiles
Definitions
Download

Area type **CCG**

Area **NHS Bedfordshire CCG** Search for an area

Sub-region **Central Midlands** 10 most similar CCGs to Bedfordshire

Benchmark **England**

Benchmark against goal where applicable

* a note is attached to the value, hover over to see more details

Compared with benchmark: Better Similar Worse Lower Similar Higher Low High Not compared

Export table as image

Indicator	Period	England	Central Midlands NHS region	NHS Bedfordshire CCG	NHS Corby CCG	NHS East And North Hertfordshire...	NHS East Leicestershire And Rutla...	NHS Herts Valleys CCG	NHS Leicester City CCG	NHS Lincolnshire East CCG	NHS Lincolnshire West CCG	NHS Luton CCG	NHS Milton Keynes CCG	NHS Nene CCG	NHS South Lincolnshire CCG	NHS South-West Lincolnshire CCG	NHS West Leicestershire CCG
Total number of prescribed																	

Interventions targeting healthcare professionals

- Education
- Guidelines
- Public commitment
- Practical tools for antimicrobial stewardship teams

Online free access course



[Courses](#)

[About](#)

[Partners](#)

[Sign in](#)

[Register](#)

Antimicrobial Stewardship: Managing Antibiotic Resistance

Join now – started 28 Sep

INTRODUCTION

Understand antibiotic resistance, and how antimicrobial stewardship can slow down or reduce it, with this free online course

WATCH THE TRAILER



The British Society
for Antimicrobial
Chemotherapy

Guidelines

- Netherlands:
 - National hospital guidelines
 - That could be adapted locally
- [http://www.swab.nl/swab/cms3.nsf/uploads/DBDC976C0F7A4D8C125802B006BCA7D/\\$FILE/20160909%20Concept%20SWAB%20Guidelines%20for%20Antimicrobial%20Stewardship.pdf](http://www.swab.nl/swab/cms3.nsf/uploads/DBDC976C0F7A4D8C125802B006BCA7D/$FILE/20160909%20Concept%20SWAB%20Guidelines%20for%20Antimicrobial%20Stewardship.pdf)

Interventions targeting the general public

- Public awareness and information campaigns
- Information documents

Overview of public awareness campaigns

- http://www.who.int/selection_medicines/committees/expert/21/applications/s6_antibiotic_awareness_campaigns.pdf

Non-prescription pad

Aujourd'hui, je vous ai diagnostiqué une infection qui ne nécessite pas d'antibiotiques.






N° : _____
 N° DE POINT : _____

CACHET MÉDECIN

Pourquoi n'avez-vous pas besoin d'un antibiotique aujourd'hui ?

Le rhume (rhinopharyngite), la grippe, la bronchite aiguë et la plupart des otites et des angines sont de nature virale et guérissent donc sans antibiotiques.

Avec ou sans antibiotiques, vous ne guérissez pas plus vite. Le tableau ci-dessous vous indique la durée habituelle des symptômes de ces maladies (avec ou sans antibiotiques).

<input checked="" type="checkbox"/>	MALADIE	DURÉE HABITUELLE DES PRINCIPAUX SYMPTÔMES
<input type="checkbox"/>	 RHINOPHARYNGITE (RHUME) • Toujours virale.	• Fièvre : 2-3 jours. • Nez qui coule (secretions de couleur blanche, jaune ou verte), nez bouché : 7-12 jours. • Toux : 1 à 3 semaines.
<input type="checkbox"/>	 GRIPPE • Infection virale.	• Fièvre, courbatures : 2-4 jours. • Toux : 2-3 semaines. • Fatigue : plusieurs semaines.
<input type="checkbox"/>	 ANGINE VIRALE • Test diagnostique rapide de recherche de streptocoque négatif.	• Fièvre : 2-3 jours. • Mal à la gorge : 7 jours.
<input type="checkbox"/>	 BRONCHITE AIGUË • Classiquement toujours virale. • Les toux grasses avec des sécrétions jaunes ou verdâtres font partie de l'évolution naturelle de la maladie.	• Fièvre : 2-3 jours. • Toux : 2-3 semaines.
<input type="checkbox"/>	 OTITE AIGUË • Après l'âge de 2 ans, guérit le plus souvent sans antibiotiques.	• Fièvre, douleur : 3-4 jours.

CE QUE VOUS POUVEZ FAIRE POUR SOULAGER VOS SYMPTÔMES

- Durer suffisamment vous ne devez pas avoir soif.
- Adapter votre activité physique, cela aide votre corps à guérir.
- Il existe des médicaments contre la fièvre ou la douleur. Suivre la prescription de votre médecin ou demandez conseil à votre pharmacien.

Si vous avez de la fièvre (température > 38,5°C) durant plus de 3 jours, ou si d'autres symptômes apparaissent, ou que votre état de santé ne s'améliore pas, vous devez consulter votre médecin.

Pourquoi faut-il prendre un antibiotique seulement quand c'est nécessaire ?

- Les antibiotiques peuvent être responsables d'effets indésirables, comme les allergies ou la diarrhée.
- Les bactéries peuvent s'adapter et survivre en présence d'antibiotiques. Ainsi, plus vous prenez des antibiotiques, plus les bactéries présentes dans votre corps (peau, intestin) risquent de devenir résistantes.
- Les bactéries résistantes aux antibiotiques peuvent être la cause d'infections difficiles à guérir, et vous pouvez aussi les transmettre à vos proches.

En prenant un antibiotique uniquement lorsque c'est indispensable, vous contribuez à prévenir l'apparition de bactéries résistantes aux antibiotiques.

 Ce document est adapté à votre cas. Ne le donnez pas à quelqu'un d'autre, même en cas de symptômes identiques.

Avec ou sans antibiotiques, vous ne guérissez pas plus vite.



The Antibiotic Guardian campaign

BECOME AN ANTIBIOTIC GUARDIAN
CHOOSE YOUR PLEDGE NOW!

I AM A

HEALTHCARE
PROFESSIONAL
OR LEADER

Select from the list below

MEMBER OF
THE PUBLIC

Select from the list below

STUDENT OR
EDUCATOR

Select from the list below



PERSPECTIVES



**Cochrane
Library**

Cochrane Database of Systematic Reviews

Interventions to improve antibiotic prescribing practices for hospital inpatients (Review)

Davey P, Marwick CA, Scott CL, Charani E, McNeil K, Brown E, Gould IM, Ramsay CR, Michie S

Current evidence on hospital antimicrobial stewardship objectives: a systematic review and meta-analysis

Emelie C Schuts, Marlies E J L Hulscher, Johan W Mouton, Cees M Verduin, James W T Cohen Stuart, Hans W P M Overdiek, Paul D van der Linden, Stephanie Natsch, Cees M P M Hertogh, Tom F W Wolfs, Jeroen A Schouten, Bart Jan Kullberg, Jan M Prins

CMI Theme issue – November 2017

Too much focus on hospitals

- We know what to do in hospitals
- We 'just' need:
 - Resources
 - Leadership
 - A facilitating system
 - To share tools and experiences
 - More training courses for stewards
- We need more focus on community and LTCFs settings
- And we need to involve new health professionals (nurses, community pharmacists, primary care doctors...)

Broaden the target audience

- Educate all healthcare professionals
- Reach other specialties
- Communication and engagement of the public

Other needs

- IT tools
- Real synergy with infection control teams
- Share tools and experiences, and assess the impact of interventions

You like AMS... join ESGAP !

The screenshot shows the ESCMID website with the URL www.escmid.org/research_projects/study_groups/antibiotic_policies/esgap_membership_application/. The page features a navigation menu with categories: Dates & Events, News & Discussion, Research & Projects, ESCMID Library, Profession & Career, and Membership & Organization. A sidebar on the left lists various study groups, with 'ESGAP membership application' highlighted. The main content area includes a group photo of members and a section titled 'IMPORTANT: Only ESCMID members can become Study Group members.' Below this, there are two login forms: one for general users and one for members/registered users. The member login form shows the email 'celine.pulcin@univ-lorraine.fr' and a masked password. Social media icons for Facebook, Twitter, LinkedIn, and YouTube are visible in the top right corner.

ESCMIID EUROPEAN SOCIETY OF CLINICAL MICROBIOLOGY AND INFECTIOUS DISEASES

Home Contact Sitemap Forum

Follow ESCMIID

Research & Projects

ESGAP membership application

IMPORTANT: Only ESCMIID members can become Study Group members.

If you are already ESCMIID member, please log in with your ESCMIID login and password.
If you are not yet ESCMIID member, please apply for → ESCMIID membership.
If you have difficulties or if you are not sure about your ESCMIID membership status, please consult the online membership FAQ on the → ESCMIID membership website to know how to check your status.

For members or registered users of this website only

Member ID / email address: Password:

celine.pulcin@univ-lorraine.fr *****

Log in
Forgot password
Registration