

ESGAP

ESCMID STUDY GROUP
FOR ANTIMICROBIAL
STEWARDSHIP

European Society of Clinical Microbiology and Infectious Diseases

ANTIBIOTIC STEWARDSHIP QU'EST-CE QUI MARCHE AILLEURS ? LE TOUR DU MONDE DES EXPÉRIENCES RÉUSSIES

Pr Celine PULCINI

Infectiologue, Nancy

© RICAI - Décembre 2018



QUELQUES INITIATIVES INTERNATIONALES INTÉRESSANTES



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The screenshot shows the United Nations website header with the logo and the text "GENERAL ASSEMBLY OF THE UNITED NATIONS" and "President of the 71st session". A navigation menu includes "Home", "General Assembly", "About the President", "From The President", "Media", "Events", and "SG Selection". The main content area features a press release titled "PRESS RELEASE: High-Level Meeting on Antimicrobial Resistance" dated "21 September 2016 in Media, PGA Press Releases". Below the title is a link to the "OPGA/WHO/FAO/OIE Joint News Release" with social media icons and a share count of 206. A calendar for September 2016 is visible on the right, showing the meeting date on the 21st. At the bottom of the press release section is a graphic with the text "HIGH-LEVEL MEETING ON ANTIMICROBIAL RESISTANCE" and "21 SEPTEMBER 2016, UN HEADQUARTERS, NEW YORK".

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MARCH 2017: INTERAGENCY GROUP

WHO activities



Newsletter



Essential Medicines List



Priority Pathogen List for R and D



Point-prevalence survey methodology in hospitals



CLASS



Interactive map showing progress of national action plans



Community of practice



Stewardship toolkit (*under preparation*) avec core elements nationaux et dans les hôpitaux



IMPORTANCE DU PARTAGE D'EXPÉRIENCES

ECDC Directory of Resources

The screenshot shows the ECDC website interface. At the top, there is the ECDC logo and the text 'European Centre for Disease Prevention and Control'. Below this is a navigation menu with options like 'Health topics', 'Publications', 'Data & Tools', 'About Us', and 'News & Media'. The main content area is titled 'Directory of online resources for prevention and control of antimicrobial resistance (AMR) and healthcare-associated infections (HAI)'. It includes a brief description of the directory and a table of resources.

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	Antimicrobial stewardship	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	Operative antimicrobial prophylaxis	Training courses on antimicrobial stewardship
	Clostridium difficile (CDI)	Healthcare-associated 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>

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European Antibiotic Awareness Day

The screenshot shows the homepage of the European Antibiotic Awareness Day (EAAD) website. At the top, there is a header with the EAAD logo, the text "EUROPEAN ANTIBIOTIC AWARENESS DAY", and "A EUROPEAN HEALTH INITIATIVE" with the European Union flag. A language dropdown menu is set to "English (en)", and the ECDC logo is visible on the right. Below the header is a navigation bar with links: "Plan a campaign", "For prescribers", "Get informed", "Get involved", "Campaigns in Europe", "News", and "About".

The main content area features several sections:

- Do not self-medicate with antibiotics**
- New infographic**
- Patient stories**
- Last-line antibiotics are failing** (highlighted in green)
- What is antibiotic resistance?**

A central video player displays a video titled "How does antimicrobial resistance spread?" with a duration of 02:10. Below the video is a tweet from @Portalfarma:

#EAAD2016

Pharmacy hospita ESA Retweeted

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

Below the tweet are two more featured articles:

- 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.

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

European Antimicrobial Resistance Surveillance Network (EARS-Net)

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



The screenshot shows the homepage of the European Centre for Disease Prevention and Control (ECDC) for the European Antimicrobial Resistance Surveillance Network (EARS-Net). The page features a navigation menu with categories like Health topics, Publications, Data & Tools, About Us, and News & Media. The main content area is titled 'European Antimicrobial Resistance Surveillance Network (EARS-Net)' and includes sections for 'SUBMITTING DATA' (listing EARS-Net Protocols and software), 'REPORTS AND DATA' (listing EARS-Net reports and the Surveillance Atlas of Infectious Diseases), and 'ABOUT EARS-Net' (listing About the network, Data collection and analysis, Organisations, Contact, and History). A section titled 'About the network' provides a detailed description of EARS-Net as the largest publicly funded system for antimicrobial resistance (AMR) surveillance in Europe, and lists its objectives: collecting comparable AMR data, analyzing trends, providing data for policy decisions, encouraging national surveillance programs, and supporting national systems for diagnostic accuracy and external quality assessments (EQA).

Antimicrobial Consumption data (ESAC-Net)

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



The screenshot shows the ECDC website page for Antimicrobial consumption. The page features a navigation bar with links for Health topics, Publications, Data & Tools, About Us, and News & Media. The main content area is divided into two columns. The left column contains a sidebar with links to Antimicrobial resistance, Antimicrobial consumption, and Antimicrobial Resistance and Healthcare-associated Infections Programme. The right column contains the main article text, a video player, and a section for PUBLICATIONS and NEWS. The article text discusses the use and overuse of antimicrobials and the ECDC's role in monitoring antimicrobial consumption data through ESAC-Net.

European Centre for Disease Prevention and Control

Go to Extranet

Search

Advanced Search

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

Home > Portal Home > English > Health topics > Antimicrobial resistance and antimicrobial consumption > Antimicrobial consumption

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 12 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 17 Nov 2016

The future is now: Join the global Twitter conversation at #EAD2016 live-event tweeting on 26 November 17 Nov 2016

European Antibiotic Awareness Day receives the European Health Award 2016 26 Sep 2016

MORE ON THE ECDC SITE

- [Healthcare-associated infections](#)
- [Directory of online resources for prevention and control of antimicrobial resistance and healthcare-associated infections \(HAI\)](#)



Fun games and teaching resources about
microbes and antibiotics

Teachers

Students

Junior

Junior

Senior

Senior

Young Adult

Young Adult

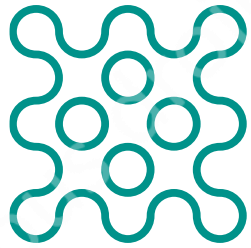
Teacher Home

Partners

Educator Training

Community Resources

Peer Education



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Home Contact Site

ESCMID MANAGING INFECTIONS PROMOTING SCIENCE

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

Research & Projects

ECCMID

ESCMID Conferences

Study Groups

- Become SG Member
- Anaerobic Infections
- Antimicrobial stewardship**
- 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
- Epidemiological Markers



ESCMID Study Group for Antimicrobial Stewardship - 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 ESCMID Study Group for Antibiotic Policies to ESCMID Study Group for Antimicrobial stewardship.

05 April 2017
ESGAP @ ESCMID 2017 in Vienna, Austria

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

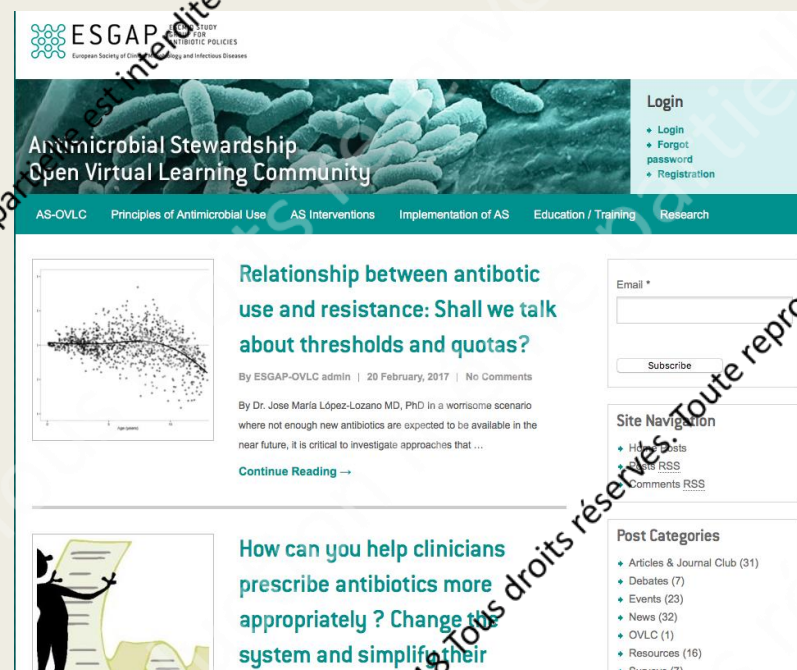
Website

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

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Sharing experiences: ESGAP Open Virtual Learning Community

<http://esgap.escmid.org>



ESGAP
European Society of Clinical Microbiology and Infectious Diseases

Antimicrobial Stewardship
Open Virtual Learning Community

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 Maria 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

Login

- Login
- Forgot password
- Registration

Email *

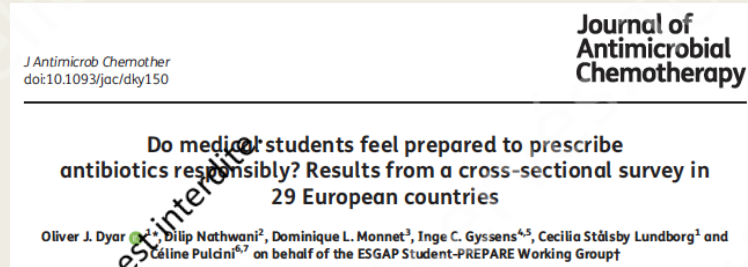
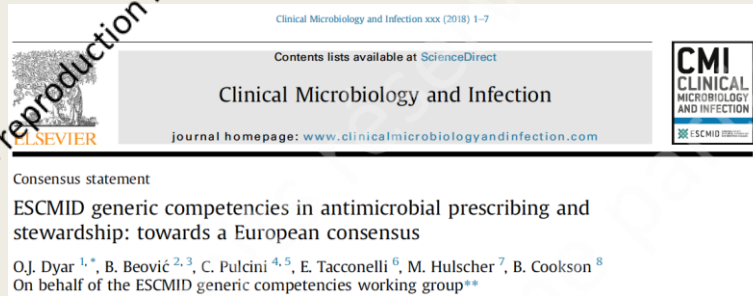
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Post Categories

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- Events (23)
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- OVLC (1)
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- Surveys (7)



TRAINING (INITIAL AND POSTGRADUATE)
INCLUDING COMMUNICATION SKILLS

Enquête ESCMID AMS/IPC

Papier en cours
d'écriture, abstract
soumis pour
l'ECCMID

Formation en AMS et
IPC des spécialistes
des infections

=> Nécessité
amélioration et
standardisation

Perfectible

Très
hétérogène



At national level



Incentives such as accreditation, public reporting or pay-for-performance



Few countries: Bulgaria, Croatia, France, Netherlands, Norway, Portugal



ESGAP survey
(Howard P et al. JAC 2017)



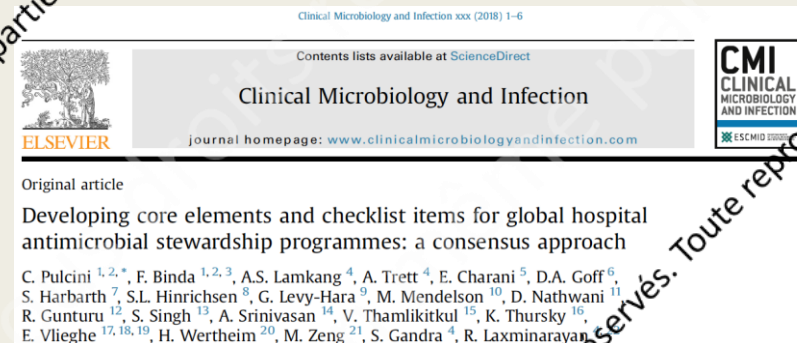
P4P has an impact (England, France)
(Balinskaite V et al. CID 2018)

Indicators with targets and incentives

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Core elements and checklist items

- Group of 15 international experts
- Set of globally applicable essential core elements and checklist items for hospital AMS programmes



International Journal of Antimicrobial Agents 49 (2017) 162–166

Contents lists available at [ScienceDirect](#)



International Journal of Antimicrobial Agents

journal homepage: www.elsevier.com/locate/ijantimicag



Selective reporting of antibiotic susceptibility test results in European countries: an ESCMID cross-sectional survey



Céline Pulcini ^{a,b,*}, Gianpiero Tebano ^a, Nico T. Mutters ^c, Evelina Tacconelli ^{d,e},
Emmanuelle Cambau ^{f,g}, Gunnar Kahlmeter ^h, Vincent Lelieur ^{ij} on behalf of the EUCIC-
ESGAP-EUCAST Selective Reporting Working Group

SELECTIVE SUSCEPTIBILITY TESTING REPORTING

Rôle des microbiologistes

- Diagnostic stewardship = une mauvaise expression (*Commentary to be published soon in CMI*), mais qui illustre le manque d'attention (clairement) portée à la démarche diagnostique (clinique, biologique, imagerie...) dans les programmes d'antibiotic stewardship
- Morency-Potvin P et al. *Clin Microbiol Rev.* 2016;30(1):381-407
- P-319 Implication des bactériologistes au sein des programmes hospitaliers de bon usage des antibiotiques

QUELQUES INITIATIVES NATIONALES INTÉRESSANTES





Contents lists available at ScienceDirect

Clinical Microbiology and Infection

journal homepage: www.clinicalmicrobiologyandinfection.com



Review

Managing responsible antimicrobial use: perspectives across the healthcare system

O.J. Dyar^{1,4}, G. Tebano^{2,4}, C. Pulcini^{3,*}, on behalf of ESGAP (ESCMID Study Group for Antimicrobial stewardship)

- System approach
- Input from social sciences
- Governance
- Certification (France, Netherlands, Australia, US...)
- Networks



Swedish work on containment of antibiotic resistance

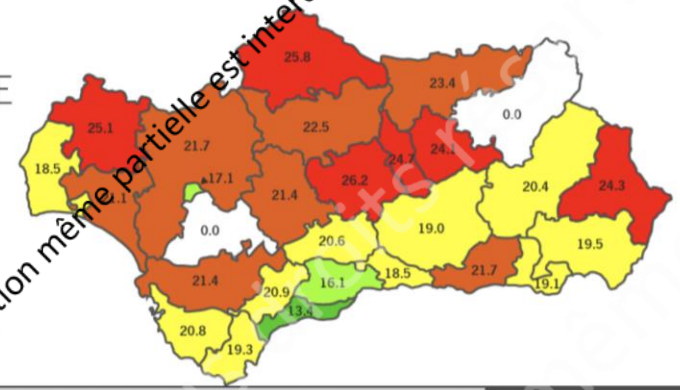
Tools, methods and experiences

**Cornwall One-Health
regional group**

Powell N et al. JAC 2017

Programa PIRASOA

DISTRIBUCIÓN GEOGRÁFICA DE PRESIÓN ANTIMICROBIANA EN EL 4T_2014 POR DISTRITOS



Ver evolución PIRASOA

Plataforma Carga Datos Indicadores
Información y acceso plataforma de carga de datos [Acceder](#)



Toolkits

- http://ecdc.europa.eu/en/healthtopics/Healthcare-associated_infections/guidance-infection-prevention-control/Pages/guidance-antimicrobial-stewardship.aspx
- <http://www.infectiologie.com/fr/toolbox.html>
- <http://www.ateams.nl>
- <https://www.reactgroup.org/toolbox/about-the-toolbox/how-to-use-the-toolbox/>
- <http://www.bsac-arc.com>



Contents lists available at [ScienceDirect](https://www.sciencedirect.com)

Clinical Microbiology and Infection

journal homepage: www.clinicalmicrobiologyandinfection.com



Commentary

Human resources estimates and funding for antibiotic stewardship teams are urgently needed

C. Pulcini^{1, 2, 3, *}, C.M. Morel^{4, 5}, E. Tacconelli⁶, B. Beovic^{3, 8, 9}, K. de With¹⁰,
H. Goossens¹¹, S. Harbarth¹², A. Holmes¹³, P. Howard^{3, 14}, A.M. Morris¹⁵,
D. Nathwani^{16, 17}, M. Sharland¹⁸, J. Schouten^{3, 19}, K. Thursky²⁰, R. Laxminarayan²¹,
M. Mendelson²²

Human resources required for antimicrobial stewardship teams: a Dutch consensus report.

Ten Oever J, et al. Clin Microbiol Infect. 2018 Dec;24(12):1273–1279.

=> Autour de 4 ETP/1000 lits de soins aigus pour l'équipe

Antimicrobial Stewardship: Managing Antibiotic Resistance

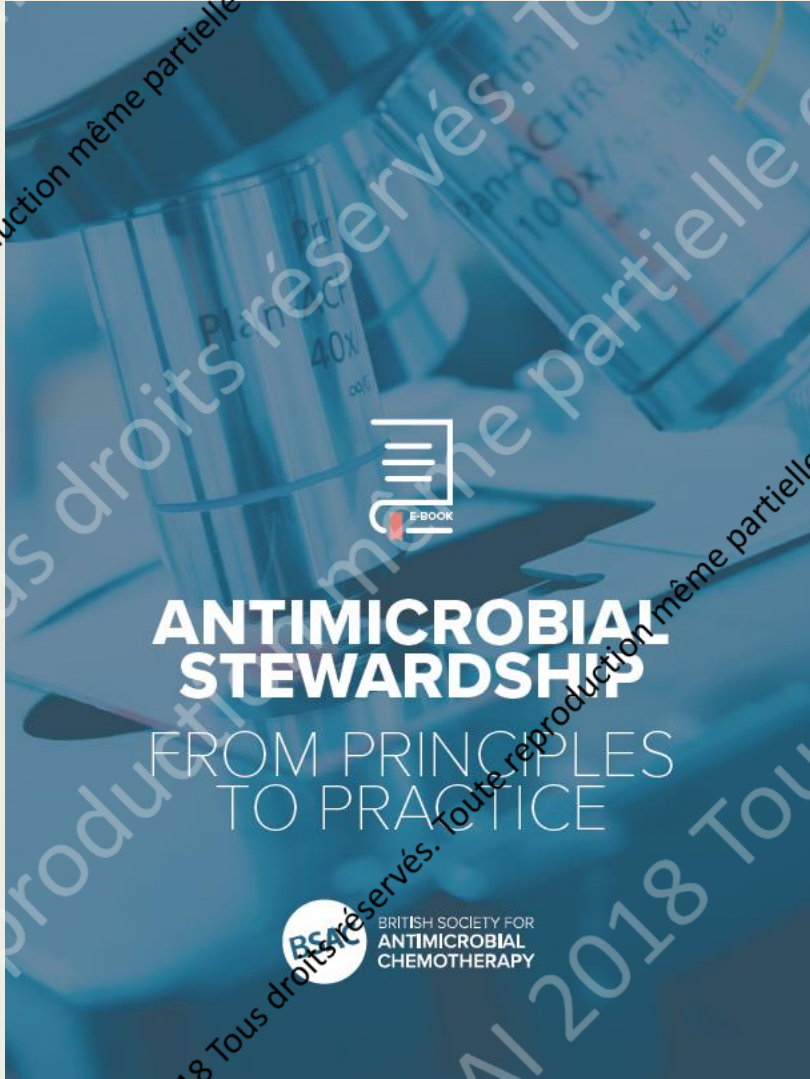
Join now – started 28 Sep

INTRODUCTION

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

WATCH THE TRAILER





THIS E-BOOK HAS BEEN
DEVELOPED BY BSAC



IN COLLABORATION
WITH ESGAP/ESCMID



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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

Sub-region: Central Midlands

Benchmark: England

Benchmark against goal where applicable

Search for an area

10 most similar CCGs to Bedfordshire

Compared with benchmark

Legend: Better (green), Similar (yellow), Worse (red), Lower (blue), Similar (yellow), Higher (purple), Low (light purple), High (dark purple), Not compared (grey)

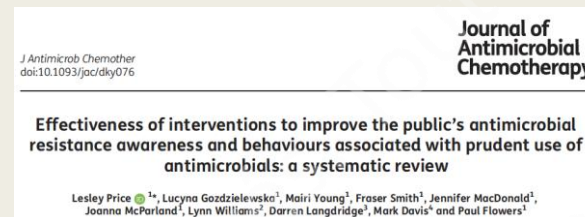
* a note is attached to the value, hover over to see more details

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																	

Overview of public awareness campaigns

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



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



The Mould That Changed The World Musical! Education through innovation

BSAC and Charades Musical are delighted to announce a partnership to develop a new musical [The Mould that Changed the World!](#)

Developed in collaboration with the University of Edinburgh the school musical, which will be launched at premiere events in Scotland and London, will enable schools across the UK to develop their own musicals using an outstanding resource kit. It is an innovative, fun and exciting way to influence the behaviour of school age children, who will in turn help change the behaviour of their older siblings, peers, parents and carers

KROBS

[LE JEU](#)

[LES MICROBES](#)

[LE DICO](#)

[J'ACHÈTE LE JEU](#)



**UN JEU POUR APPRENDRE
À VOUS PROTÉGER DES
MICROBES !**

[J'ACHÈTE LE JEU](#)



LES
MICROBES
DES
ALIMENTS

LES
MICROBES
DES ANIMAUX

LES
MICROBES DE
L'EAU

LES
MICROBES DE
LA FORÊT

LES
MICROBES DU
VOYAGE

APPRENEZ À VOUS PROTÉGER DES MICROBES

Nos modes de vie actuels nous exposent à des microbes.



Public Health
England



Department
of Health

**Behaviour change and antibiotic
prescribing in healthcare settings**
Literature review and behavioural
analysis

Letter from MoH

Social norm
feedback to
high
prescribers in
general
practice

4% reduction
in antibiotic
use

*Hallsworth M
et al. Lancet
2016*

Guidelines

- Netherlands:
 - *National hospital guidelines*
 - *That could be adapted locally*

- [http://www.swab.nl/swab/cms3.nsf/uploads/DBDCF976C0F7A4D8C125802B006BCA7D/\\$FILE/20160909%20Concept%20SWAB%20Guidelines%20for%20Antimicrobial%20Sterilization%20Guidelines.pdf](http://www.swab.nl/swab/cms3.nsf/uploads/DBDCF976C0F7A4D8C125802B006BCA7D/$FILE/20160909%20Concept%20SWAB%20Guidelines%20for%20Antimicrobial%20Sterilization%20Guidelines.pdf)

Pays-Bas



Implementation science (idem UK)



Indicateurs qualité et registre national



Certification externe



Calcul ETP, avec différenciation entre 'consult ID Service' et stewardship



Implication IDE



Offre de formation



AMS Observerships and Mentorships

US



Certification



Core elements pour les 3 secteurs (site du CDC)



Automatisation de l'analyse des données (quantitatives) de consommation antibiotique, avec cibles



Antimicrobial Stewardship Project

About ASP

Antimicrobial resistance is a critical global public health issue, and **antimicrobial stewardship** strategies are key to curtailing the problem. CIDRAP's Antimicrobial Stewardship Project provides current, accurate, and comprehensive information on the topic and works to build an online community to address leading issues.

[About ASP](#)[ASP Advisory Committee](#)

ASP Monthly Quiz

Test your stewardship knowledge. This quiz is based on a pair of articles pointing to a wide range of practices in antimicrobial use in European acute care hospitals and nursing homes. Take the **December quiz!**



Sanderson Farms to phase out medically important antibiotics

Chris Dall | News Reporter | CIDRAP News | Nov 30, 2018

The company says it will stop using medically important antibiotics for disease prevention in its live poultry operations.

ASP CONTENT

- ▶ [ASP Home](#)
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- ▶ [ASP Podcasts, Webinars](#)
- ▶ [Policy Updates](#)
- ▶ [Conference Summaries](#)
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- ▶ [Weekly Newsletters](#)

ASP DIAGNOSTICS

[Visit Diagnostics Page](#)

ASP SCAN (WEEKLY)

NOV 30, 2018

- Superbugs in Canadian ICUs
- Probiotics and ESBL colonization
- Antibiotics after rhinoplasty
- Rapid flu diagnostic test

Australie



Certification



Plein de ressources intéressantes:

<https://www.safetyandquality.gov.au/our-work/healthcare-associated-infection/antimicrobial-stewardship/>

Ville

- Quelques initiatives originales ou à tester en France:
 - *Communication skills training*
 - *POC tests*
 - *Public commitment*
 - *Sickness leave regulation*
 - ...
- Dyar OJ et al. Expert Rev Anti Infect Ther. 2016;14(4):403-13
- King LM et al. BMJ 2018



DES QUESTIONS ?