



ESCMID

MANAGING INFECTIONS
PROMOTING SCIENCE

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NEOH Stakeholder Meeting

ESCMID's Perspective on One Health

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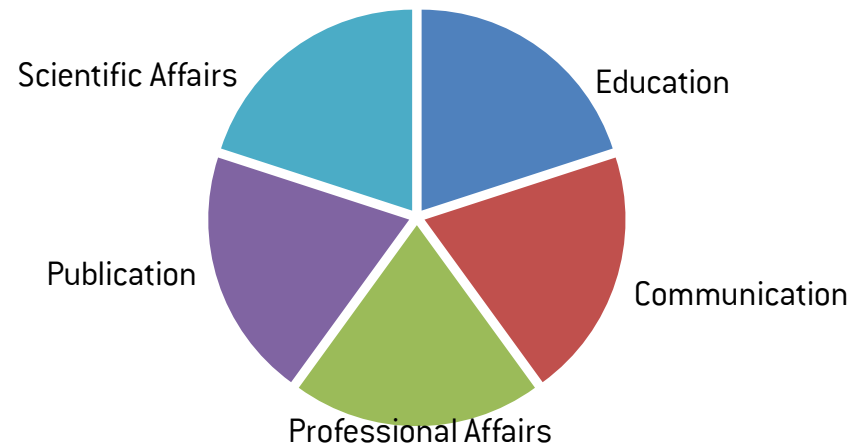
Two Partners in Cooperation



Clinical Microbiologists



Infectious Disease Specialists



Facts & Figures



≈6,500 members, 55 affiliated societies with ≈ 40,000 members

- Educational courses, workshops, conferences, summer school
- Observerships, 81 centres on all continents, WHO, ECDC; mentorships
- Trainee association, job platform, online library
- Journals *Clinical Microbiology and Infection*, *New Microbes New Infections*

ESCMID congress ECCMID



25th ECCMID in Copenhagen, April 2015:

10,671 participants from 112 countries (US, UK, Germany, Spain, France)

More than 4,000 abstracts



Next ECCMID in Amsterdam, 9-12 April 2016

NEOH present at Network Corner

Several sessions on One Health (i.e. resistant gram-negative bacteria in animals and the environment or on zoonotic diseases)

Scientific Affairs & Projects

- Medical guidelines
- EUCAST – The European Committee on Antimicrobial Susceptibility Testing, vetCAST
- National Antimicrobial Committees (NACs)
- EUCIC – European Committee for Infection Control
- 28 study groups

EFISG – Fungal Infections

- increase in **azole-resistant invasive *Aspergillus fumigatus*** infections in the clinic
- Cross-resistance to azole antifungals used for plant protection
- **Global Surveillance of azole resistance** in *Aspergillus fumigatus*: SCARE-Network: 23 centres in 20 countries: global surveillance of clinical and environmental *Aspergillus* sp. since azole resistance *Aspergillus* sp are emerging pathogens

Andrew Ullmann Ullmann_A@UKW.de

ESGMYC – Mycobacterial Infections

- Transmission of pathogenic mycobacteria between animals and humans
- **Bovine or wild animal tuberculosis** (Mycobacterium bovis infection) resurgent in EU countries, endemic in Eastern Europe, Central Asia
- **M. marinum infections** due to fisheries and fish tank hobby (Epidemiology largely unknown in Europe)
- Concern about risk of human infections due to heavy **presence of non-tuberculous mycobacteria in environment**
- Programs with research on water and **amoeba-resistant organisms**

Contact: Emmanuelle Cambaud, Laboratoire de Bactériologie-Virologie,
Groupe Hospitalier Lariboisière-Fernand Widal,
emmanuelle.cambau@lrb.aphp.fr

ESGCP – Clinical Parasitology

- Many **European parasitic diseases are zoonotic diseases** —> One Health approach necessary to deal with emerging / food-borne zoonotic diseases: Leishmaniasis, toxoplasmosis, echinococcosis, cryptosporidiosis, giardiasis.
- At National Institute for Public Health and Environment parasitology experts work closely with veterinary counterpart: **interdisciplinary collaboration and communication for health care for humans, animals and environment**

Titia Kortbeek, Titia.Kortbeek@rivm.nl

ESGMD – Molecular Diagnostics

Prof. Paul Savelkoul, paul.savelkoul@mumc.nl

Dr. Marijke Raymaekers, marijke.raymaekers@jessazh.be

Dr. Kate Templeton, Kate.Templeton@nhslothian.scot.nhs.uk

Dr. John Rossen, present at meeting today.

ESGB – Biofilm infection

Thomas Bjarnsholt, Tbjarnsholt@sund.ku.dk

ESGAP – Antibiotic Policies

- Antimicrobial stewardship and bacterial resistance are perfect examples of One Health approach, as highlighted in WHO Action Plan http://www.who.int/drugresistance/global_action_plan/en/.
- Bojana BEOVIC, expert antibiotic resistance, antibiotic policies, antibiotic stewardship, bojana.beovic@kclj.si
- Céline PULCINI, expert antibiotic resistance, antibiotic policies, antibiotic stewardship, celine.pulcini@univ-lorraine.fr

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European Study Group for Antibiotic Policies ESGAP



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ESCMID Study Group for Antibiotic Policies - ESGAP

News & Activities

01 December 2015

EUCIC, ESGAP, EUCAST conduct antibiotic susceptibility testing survey

The three groups will start conducting a European survey this week to explore in which countries selective reporting of antibiotic susceptibility testing results has been already implemented on a large scale (regional, national) and how it has been organized. For this purpose, a questionnaire survey will be sent out to national contacts in the first week of December. We look forward to active participation of the national representatives.

If you have specific question in relation to this survey regarding our groups please contact us:

EUCIC:
nico.mutters[at]med.uni-heidelberg.de

ESGAP:
celine.pulcini[at]univ-lorraine.fr

EUCAST:
gunnar.kahlmeter[at]escmid.org

Infectious diseases - clinical microbiology - infection control staffing survey in hospitals

In an attempt to define standard personnel to hospital bed ratio we designed the current survey. Hospitals will be de-identified for the analysis and reporting.

Thank you for having taken part in this survey. We are currently analyzing the accumulated data to be published soon.

Bojana Beovic, Barry Cookson, Markus Hell, Leonard Leibovici, Dilip Nathwani, Ran Nir-Paz, Mical Paul, Celine Pulcini, Evelina Tacconelli

On behalf of ESGAP, the elderly infections group (+ ESGIE), the nosocomial infections group (+ ESGNI) and the ESCMID Professional Affairs Subcommittee (+ PAS)

NEW MEMBERSHIP

REGISTER NOW

QUICKNAVIGATION

..... ESGAP

ESCMID NEWSLETTER SIGN UP

Email:

SIGN UP

Exchange on Antimicrobial Stewardship

A new knowledge and networking resource from ESGAP

https://www.escmid.org/research_projects/study_groups/antibiotic_policies/

ESGAP mission



1. **Common forum** for scientists and other healthcare professionals involved in antibiotic stewardship at local, national and international levels.
2. **Co-operation** and **links** between other existing programmes and initiatives concerned with antibiotic resistance.
3. **Educational Activity** in Relation to Stewardship
4. **Research** related to antimicrobial stewardship.



ESGAP

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

In This Issue...

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ESGAP

The ESCMID Study Group on Antibiotic Policies is dedicated to study and promote antimicrobial stewardship. Visit our [website](#)

ESGAP Executive Committee

The actual list of the EC members is:

- Phillip Howard, UK
- Leonardo Pagan, Italy
- Jose Ramon Pano Pardo, Spain
- Hakan Hanberger, Sweden
- Stephan Harbarth, Switzerland
- Dilip Nathwani, UK
- Agnes Wechsler-Poerdos, Austria
- Celine Pulcini, France
- Diamantis Kofleridis, Greece
- Guillaume Beraud, France
- Jeroen Schouten, The Netherlands
- Onder Ergonul, Turkey
- Bojana Beovic, Slovenia

ESGAP in numbers

ESGAP was created in 1999, and has now 53 regular members

News from ESGAP

The link between antibiotic use and resistance is clear. Consequently, concerns about inappropriate antibiotic prescribing has never been greater. Reversal of resistance problems is often feasible by changing patterns of antibiotic use. Audits repeatedly show tremendous variations in standards for antibiotic prescription, but the common topic is one of unnecessary use. Unfortunately, there are no reliable comparative data on antibiotic prescribing and control measures, although the importance of collecting such data was emphasised in the recent Copenhagen Declaration.



With these facts in mind, a group of like-minded researchers have formed the European Study Group for Antibiotic Policies. ESGAP has gained official recognition from the ESCMID Executive Committee and elected its first executive officers at the 9th ECCMID, 1999, Berlin, Germany.

ESGAP made numerous presentations and publications. An important event to come is the Postgraduate Education course on **Management and Control of Health Care-Associated Bloodstream Infections**

Participation to ESGAP activities requires filling in a **membership application** and submitting it.

News on antimicrobial stewardship

AMC Tool is a programme to calculate antimicrobial consumption. It is aimed to replace the old ABC Calc tool. As its predecessor, AMC Tool computes antimicrobial consumption data provided as numbers of packages into numbers of Defined Daily Doses (DDD) using the ATC/DDD index.

AMC Tool is a completely new programme, freely available.

AMC Tool has extended the basic functionalities of ABC Calc in order to provide a better user experience.

AMC Tool includes additional ATC groups and can process consumption data for antibiotics, antimycotics, antifungals and antivirals.

AMC Tool uses two indicators to report antimicrobial consumption:

- DDD per 1000 inhabitants per day
- DDD per 100 bed-days

and allows the calculation of consumption data from either healthcare settings or the community.

In addition to manual data entry, AMC Tool can read files provided in a standardised format in order to facilitate the process of data entry.

AMC Tool exports the computed consumption data in DDD in a standardised format ready for further analyses.

It is freely [downloadable](#)

Focus on a paper

Infectious Diseases Specialty Intervention Is Associated With Decreased Mortality and Lower Healthcare Costs. Schmitt et al. CID 2014;58 (1 January)

Background: Previous studies, largely based on chart reviews with small sample sizes, have demonstrated that infectious diseases (ID) specialists positively impact patient outcomes. We investigated how ID specialists impact mortality, utilization, and costs using a large claims dataset.

Methods: We used administrative fee-for-service Medicare claims to identify beneficiaries hospitalized from 2008 to 2009 with at least 1 of 11 infections. There were 101 991 stays with and 170 336 stays without ID interventions. Cohorts were propensity score matched for patient demographics, comorbidities, and hospital characteristics. Regression models compared ID versus non-ID intervention and early versus late ID intervention. Risk-adjusted outcomes included hospital and intensive care unit (ICU) length

of stay (LOS), mortality, readmissions, hospital charges, and Medicare payments.

Results: The ID intervention cohort demonstrated significantly lower mortality (odds ratio [OR], 0.87; 95% confidence interval [CI], .83 to .91) and readmissions (OR, 0.96; 95% CI, .93 to .99) than the non-ID intervention cohort. Medicare charges and payments were not significantly different; the ID intervention cohort ICU LOS was 3.7% shorter (95% CI, -5.5% to -1.9%). Patients receiving ID intervention within 2 days of admission had significantly lower 30-day mortality and readmission, hospital and ICU length of stay, and Medicare charges and payments compared with patients receiving later ID interventions.

Conclusions: ID interventions are associated with improved patient outcomes. Early ID interventions are also associated with reduced costs for Medicare beneficiaries with select infections.

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On the Web

Global Point Prevalence Survey of Antimicrobial Use: an Opportunity Knocking on your Door.

- Global-PPS is project aiming to expand a standardised surveillance method to monitor rates of antimicrobial prescribing in hospitalized patients.
- The Global-PPS assesses antimicrobial use in all hospitalized patients (adults and children) of the participating centres at 8:00 am on the day of survey, and receiving an antimicrobial agent.
- It is aimed to conduct a one-day cross-sectional PPS including each ward within the hospital just once within this period.
- Foreseen timeline for the Global-PPS is February-April 2015.
- More information on [OVLIC website](#)

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!!!The event of the year in antimicrobial stewardship!!!

Postgraduate Education Course on **Management and Control of Health Care-Associated Bloodstream Infections** held in Copenhagen, Denmark, from 23 - 24 April 2015 (just before ECCMID 2015)

Announcements

Two courses supported by ESGAP:

1. Postgraduate Education Course on "Management and Control of Health Care-Associated Bloodstream Infections" held in Copenhagen, Denmark, from 23 - 24 April 2015 (just before ECCMID 2015), organised by the following Study Groups:

- ESCMID Study Group for Antibiotic Policies (ESGAP)
- ESCMID Study Group for Bloodstream Infections and Septis (ESGBIS)
- ESCMID Study Group for Nosocomial Infections (ESGNI)

The course is targeting medical doctors, scientists and clinical pharmacists involved in management and control of health care-associated bloodstream infections. Register now online via the following [link](#)! Deadline for registration is 1 March 2015.

2. Soon to be, a **MOOC** (Massive Online Open Course) on Antimicrobial Stewardship organized by Pr Dilip Nathwani

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To apply for membership to ESGAP, you just need to fill in an application [form](#).



Open Virtual Learning Community

Datoteka Urejanje Pogled Zgodovina Zaznamki Orodja Pomoč

ESCMID: ESGAP x Open Virtual Learning Commu... x +

esgap.escmid.org


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

Antimicrobial Stewardship Open Virtual Learning Community

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



Dutch Working Party on Antibiotic Policy (SWAB) releases a guideline on #AntimicrobialStewardship implementation

By ESGAP-OVLC admin | 30 November, 2015 | No Comments

SWAB, the Dutch Working Party on Antibiotic Policy, has published a guide

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**ESGAP**

ESCMID STUDY GROUP
FOR ANTIBIOTIC POLICIES

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Scientific picture inside/outside: Antibiotic stewardship at work,
© CWZ Hospital Nijmegen, Netherlands



© ESCMID, December 2015

**ESCMID**

MANAGING INFECTIONS
PROMOTING SCIENCE

ESCMID Postgraduate
Education Course

Antimicrobial Stewardship: a Practical and Integrated Approach

Ijmuiden Aan Zee,
Netherlands
7 – 8 April 2016



ESCMID Postgraduate
Education Course

Antimicrobial Stewardship: a Practical and Integrated Approach

Organizers

- ESCMID Study Group for Antibiotic Policies (ESGAP)
- Dutch Working Party on Antibiotic Policy (SWAB)

Course Coordinators

- Bojana Beovic, Ljubljana, Slovenia
- Jan Prins, Amsterdam, Netherlands
- Céline Pulcini, Nancy, France

Course Objectives

- The course aims are to:
- Reflect the antibiotic stewardship initiatives being in place worldwide
 - Reflect the scientific background of antibiotic stewardship interventions
 - Learn the basic principles of antimicrobial resistance and consumption surveillance
 - Reflect the quality management aspects of antimicrobial stewardship
 - Learn the practical aspects of antimicrobial stewardship interventions
 - Learn the aspects of antibiotic stewardship in various settings: hospital (wards, surgery, ICU, haematology), primary care, general public, long-term care facilities
 - Learn about barriers to antimicrobial stewardship and how to address them, using behaviour change theories



Studies in progress

–PREPARE study:

- Preparedness of undergraduate students to prescribe antibiotics

–Infectious diseases – clinical microbiology – infection control staffing survey

- Together with 2 other ESCMID SG
- To document the ID, CM and IC personnel to hospital bed ratio in Europe





Studies in progress

–Young doctors' Perspectives on Antibiotic use and Resistance in Europe in 2015 (YPAR)

- To get an insight in the understanding of AMR in young doctors in training (all specialties)
- International and inter-specialty comparison
- To identify the gaps and the opportunities for educational interventions



Thank you.



- Joint strategy meeting at ECCMID 2015 in collaboration with VetCAST
- Educational workshops, symposia at ECCMID 2016/2017
- Symposia other congresses (e.g. EAVLD, EAVPT, ICAAC)
- Establish collaboration with other relevant study groups (e.g. EPASG), EU agencies (EMA, ECDC and EFSA) and initiatives (e.g. COST actions NEOH and EURNEGVEC)
- Initiate production of European recommendations for veterinary AST and define interpretive criteria

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