ESCMID Study Group of Bloodstream Infections and Sepsis (ESGBIS)

Annual Report 2017

Last update: December 2017
Completed Activities

1.1. Yearly ESGBIS meeting:

ESGBIS held its fourth business meeting at the past ECCMID in Vienna. ESGBIS was constituted at the 23rd ECCMID in Berlin, 2013. In accordance with the ESCMID mission, the aim of ESGBIS is improve the diagnosis, treatment and prevention of bloodstream infections (BSI) and sepsis by promoting and supporting research, education, training, and good medical practice.

A new Executive Committee has been elected in 2016: the new committee (2016-2018) includes the following colleagues:

- Winfried V. Kern (Chair)
- W. Joost Wiersinga (Treasurer)
- Pilar Retamar (Secretary)
- Yehuda Carmeli (Member-at-large)
- Maddalena Giannelli (Member-at-large)
- Bruno Hoen, Guadeloupe (Ad-hoc member, Endocarditis)

1.2. Publications, guidelines and consensus documents:


- Accepted for publication: Management of bloodstream infections by infection specialists: an international ESCMID cross-sectional survey, a collaborative ESGAP/ESGBIS paper accepted in the International Journal of Antimicrobial Agents.

### 1.3. Presentations on behalf of the Study Group at scientific meetings:


- Combination therapy is not necessary in all cases of bloodstream infections due to carbapenemase- producing *Enterobacteriaceae*: results from the INCREMENT cohort. B. Gutiérrez-Gutiérrez; E. Salamanca; M. De Cueto.et al., on behalf of REIPI/ESGBIS/INCREMENT Investigators. ECCMID Vienn 2017.


Evgeny A. Idelevich et al. Microbiological diagnostics of bloodstream infections in Europe - an ESGBIS survey (BLOODY). 27th ECCMID 2017, Vienna, abstract #OS0743

Zaira Palacios-Baena et al. Predictive model of 30-day mortality in a cohort of patients with bacteraemia due to extended spectrum beta-lactamases producing *Enterobacteriaceae* (ESBL-E): The INCREMENT Project. 27th ECCMID 2017, Vienna, abstract #P0492

### 1.4. Proposals for scientific & educational sessions at ECCMID 2017 (Vienna):

**Selected:**

- ECCMID 2017 Vienna 1-hour Symposium: Procalcitonin - the best bacterial sepsis and infection biomarker we have (PRO/CON debate); Organizer(s): ESGBIS (accepted)
- ECCMID 2017 Vienna 2-hour Symposium: Endocarditis update; Organizer(s): ESGBIS (accepted)

**Not selected:**

- ECCMID 2017 Vienna 1-hour Symposium: News on Q fever; Organizer(s): ESGBIS (not selected)
- ECCMID 2017 Vienna 2-hour Educational Workshop: Plastic is fantastic, parallels in biofilm diagnosis and treatment of cardiac implant and prosthetic joint infection; Organizer(s): TAE, ESGIAI, ESGBIS (not selected)
- ECCMID 2017 Vienna 2-hour Symposium: Advancing bloodstream infection diagnostics; Organizer(s): ESGBIS (not selected)
- ECCMID 2017 Vienna 2-hour Symposium: Diagnosis and prognosis markers in staphylococcal bacteraemia; Organizer(s): ESGBIS, ESGS (not selected)
- ECCMID 2017 Vienna 2-hour Symposium: Hypervirulent *Klebsiella* goes global; Organizer(s): ESGBIS (not selected)
- ECCMID 2017 Vienna 2-hour Symposium: Immunocompromised host with bacteraemia - the "sentinel patient"; Organizer(s): ESGICH, ESGBIS (not selected)
- ECCMID 2017 Vienna Meet-the-Expert Session: How to define objectives in clinical

### 1.5. Organization of educational activities outside ECCMID:

- ESCMID course: Improving the Diagnosis of Bloodstream Infections – Advancing Technology and Quality for Better Care. Nice, France, 28 – 31 March 2017; organizers: ESCMID Study Group for Bloodstream Infections and Sepsis
1.6. Funded research projects (especially collaborative projects):

Up-to-date there are 9 active international collaborative projects coordinated or coorganized by ESGBIS where many European countries are represented:

**INCREMENT-SOT PROJECT:** An International Consortium for the clinical study of bloodstream infections caused by multidrug-resistant Enterobacteriaceae in solid organ recipient patients (led by ESGICH with input from ESGBIS and ESGARS). The inclusion period was closed in October 2016.

**INCREMENT PROJECT:** An International Consortium for the clinical study of bloodstream infections caused by multidrug-resistant *Enterobacteriaceae*. Impact of specific antimicrobials and MIC values on the outcome of bloodstream infections due to ESBL- or carbapenemase-producing *Enterobacteriaceae*: an observational multinational study (www.incrementproject.org). Main results have been already published (see publications).

**BICHROME:** "Bloodstream infections in patients with liver cirrhosis; a prospective multicentre cohort study" that is coordinated by Pierluigi Viale and commenced the inclusion period in June 2014 and ended in December 2015. The first manuscript describing the epidemiology and the risk factors for mortality and for multidrug resistant pathogens has been published on CMI. Other two papers, one focused on BSI in patients with alcoholic cirrhosis and one on therapeutic management, are going to be submitted in 2018.

**European Sepsis Academy:** a Marie Curie International Training Grant (MC ITN) grant entitled with the above title was awarded in the third quarter of 2015. This grant with a value of 4 million Euros will train an international training network for PhD students in the field of bloodstream infection and sepsis. Coordinator is Dr. Joost Wiersinga. The kick-off meeting was held during SEPSIS2016, December 6, 2016 in Paris. At this meeting all 15 PhD students appointed within this programme in the field of sepsis officially started their projects.

**SG Research Grant 9335 (Laurent Frederic, ESGS/ESGBIS):** Evolution history and large-scale phylogeography of the multiresistant, neonatal sepsis-associated Staphylococcus capitis clone NRCS-A (planned to run until October 2016)

**SG Research Grant 9041 (Achim Kaasch, ESGBIS/ESGS):** Identifying molecular mechanisms of intracardiac device infection by whole-genome sequencing (planned to run until Jul 2017)

Project "Competencies in antimicrobial prescribing and stewardship" to explore a consensus for antimicrobial prescribing and stewardship competencies; led by ESGAP
ESGBIS Survey “BLOODY” – Blood culture diagnostics in Europe – an ESGBIS laboratory survey. This survey aims to assess the current state of diagnostic methods in place in European laboratories for microbiological diagnostics of BSI as the basis for the future development of a harmonized European guideline for the microbiological diagnostics of bloodstream infections.

ESGAP/ESGBIS Survey “Bloodstream infection management” – the survey aims to explore current practices regarding management of bacteremia/candidemia in order to get an international picture on the topic. The survey results have been already accepted for publication.

ESCMID Practice Guideline on the Management of S. aureus Bloodstream Infection (ESGBIS/ESGS): right now under development in cooperation with IDSA

1.7. Other activities:
- ESGBIS visiting professorships: one visit (Prof. Kern to Herning, Denmark, host. Dr. Matthias Zacharin)
- EORTC/ESCMID brainstorming meeting, 14 February 2017, Brussels, Belgium (with official representatives by EFISG, EPASG, ESGAP, ESGARS, ESGBIS, ESGCIP, ESGICH, ESGMD)

Planned Activities
i) Important activities were the planning and submission of ECCMID 2018 symposia/workshop proposals and of other meetings/workshops:

Selected for ECCMID:
- ECCMID 2018 Madrid Educational Workshop (2 hours) (Accepted): Hot topics on methods for clinical research in infectious diseases; co-arranged with: ESGBIS - ESCMID SG for Bloodstream Infections and Sepsis
- ECCMID 2018 Madrid Symposium (1 hour) (Accepted): No more debate: shortening therapy for bloodstream infection and deescalation; co-arranged with: ESGBIS - ESCMID SG for Bloodstream Infections and Sepsis, ESGAP - ESCMID SG for Antimicrobial stewardship
- ECCMID 2018 Madrid Symposium (1 hour) (Accepted): Trending topics in sepsis; co-arranged with: International Sepsis Forum, ESGBIS - ESCMID SG for Bloodstream Infections and Sepsis
- ECCMID 2018 Madrid Symposium (1 hour) (Accepted): Update on bartonellosis and Q fever; co-arranged with: ESGBIS - ESCMID SG for Bloodstream Infections and Sepsis
- ECCMID 2018 Madrid Symposium (2 hour) (Accepted): Klebsiella pneumoniae – novel insights into a key pathogen; co-arranged with: ESGBIS - ESCMID SG for Bloodstream Infections and Sepsis

- ECCMID 2018 Madrid Symposium (2 hour) (Accepted): What's new in Staphylococcus aureus?; co-arranged with: ESGS - ESCMID SG for Staphylococci and Staphylococcal Diseases, ESGBIS - ESCMID SG for Bloodstream Infections and Sepsis

Not selected for ECCMID:

- ECCMID 2018 Madrid Symposium (1 hour) (Partly accepted (merged)): News on Q fever; co-arranged with: ESGBIS - ESCMID SG for Bloodstream Infections and Sepsis

- ECCMID 2018 Madrid Symposium (1 hour) (Partly accepted (merged)): Shortening antibiotic treatment in bloodstream infection - a pro-con debate; co-arranged with: ESGBIS - ESCMID SG for Bloodstream Infections and Sepsis, ESGAP - ESCMID SG for Antimicrobial stewardship

- ECCMID 2018 Madrid Symposium (2 hour) (Not Selected): Burden of bloodstream infection in immunocompromised patients in the resistance era session title here; co-arranged with: ESGBIS - ESCMID SG for Bloodstream Infections and Sepsis, ESGICH - ESCMID SG for Infections in Compromised Hosts

- ECCMID 2018 Madrid Symposium (2 hour) (Not Selected): Confronting multi/Extreme drug resistance in Enterobacteriaceae; co-arranged with: ESGBIS - ESCMID SG for Bloodstream Infections and Sepsis, EUCAST

- ECCMID 2018 Madrid Symposium (2 hour) (Partly accepted (merged)): Diagnosis and prognosis markers in Staphylococcal bacteremia; co-arranged with: ESGS - ESCMID SG for Staphylococci and Staphylococcal Diseases, ESGBIS - ESCMID SG for Bloodstream Infections and Sepsis

- ECCMID 2018 Madrid Symposium (2 hour) (Partly accepted (merged)): Hypervirulent Klebsiella goes global; co-arranged with: ESGBIS - ESCMID SG for Bloodstream Infections and Sepsis

Outside ECCMID:

- ESCMID course: Better methods for clinical studies in infectious diseases and clinical microbiology: a hands-on workshop. Seville, Spain, 7 - 9 November 2018; organizers: ESCMID Study Group for Bloodstream Infections and Sepsis - ESGBIS, ESCMID Study Group for Infections in the Elderly - ESGIE

- 1-3 further visiting professorships

**Administration:**

**Membership:** 107 SG members (as of end of December 2017)

**ESGBIS Business Meeting 2018:** agenda will be circulated before ECCMID 2018

**Finances:**

Revenues and expenses

Revenues: EUR 2,000 (ESCMID support)

Balance on the date of the written annual report

11232.18 EUR (as of end of December 2017)