

THE COCHRANE ANAESTHESIA, CRITICAL AND EMERGENCY CARE GROUP

ANNUAL REPORT 2016

Contents

| | |
|--|----|
| Preface | 3 |
| The Cochrane Anaesthesia, Critical and Emergency Care Group (ACE) | 4 |
| ACE Editorial Office | 4 |
| Greetings from our new Information Specialist | 5 |
| ACE Editors | 5 |
| Editor meeting in Verona, Italy in 2017 | 12 |
| We achieved the following goals in 2016 | 5 |
| Publications in the Cochrane Library, 2016 | 6 |
| Citation rate | 7 |
| Collaboration between ACE and the UK National Institute for Health Research (NIHR) | 8 |
| Cochrane ACE in London | 9 |
| Peer reviewers..... | 10 |
| Our goals for 2017 | 12 |
| Thank you to our funders..... | 12 |

Preface

Welcome to the 2016 ACE annual report

The Cochrane Anaesthesia, Critical and Emergency care group (ACE) works hard to ensure that our reviews are of the highest possible quality. In 2016 we decided to further improve the quality of our reviews. In order to achieve this, we obtained help from the CEU's screening procedure and decided to further reduce the number of our reviews. As we have an ever increasing workload, we prioritized the reviews in monthly teleconferences throughout 2016. Our aim for 2015 was "fewer, better reviews" and in 2016 we took the same stand. The reviews, which do not meet our quality demands, have been sent back to the authors and editors for further revision.

In 2016 we said hello to two new members of the ACE team: Janne Vendt and Karin Jespersen. Janne is our new Information Specialist and she joined the team in April. Karin is our new administrative coordinator and will join the team from the 1st of January 2017.

In 2016 we established close co-operation between Cochrane ACE and Cochrane PEC (Pre-hospital and Emergency Care Field). The Cochrane PEC field is located in France under the direction of Patricia Jabre.

In 2016 we attended the Cochrane Colloquium in Seoul and our co-ordinating editor Ann was twice in London for Cochrane ACE. In April she attended the Cochrane mid-year meeting, and in June she held a workshop together with other Cochrane ACE editors, and the Royal College of Anaesthetists (RCoA), on systematic reviews and meta-analysis.

We will try, with RCoA, to make the workshop an annual event. The next meeting is planned for June 2017.

For the past few years we have publicized our reviews and knowledge through social media. It is now possible to follow Cochrane ACE on Facebook, Twitter and LinkedIn. On our Facebook profile we have 1789 followers, on Twitter 732 followers and on LinkedIn 259 followers. We share different stories, events and other things we believe could be of interest for our followers via social media. So if you aren't already following us – join us and interact with each other and our consumers.

We would like to thank ACE contributors who have put a great deal of effort into the review production. Thanks to all our authors, editors, peer reviewers, translators and consumers – without you there would be no ACE.

Ann M. Møller (Co-ordinating Editor)

Nathan Pace (Co-ordinating Editor)

Jane Cracknell (Managing Editor)

Janne Vendt (Information Specialist)

Monika Afzali (Editorial Assistant)

Karin F. Jespersen (Administrative Co-ordinator)

Copenhagen, January 2017

The Cochrane Anaesthesia, Critical and Emergency Care Group (ACE)

ACE conducts systematic reviews of existing research within:

- Anaesthesia
- Perioperative medicine
- Intensive care medicine
- Emergency medicine
- Pre-hospital medicine
- Resuscitation

Most of our reviews are Intervention reviews based on randomized controlled trials (RCTs) and controlled clinical trials (CCTs), but we also do reviews on diagnostic test accuracy, prognosis's and qualitative studies. We try to avoid any possible duplication of work by closely collaborating with other Review Groups, which have overlapping scopes, such as the Cochrane Pregnancy and Childbirth Group, the Cochrane Injuries Group, the Cochrane Wounds Group, the Cochrane Pre-hospital and Emergency Care Field and the Cochrane Pain, Palliative Care and Supportive Care Group. If an ACE review potentially overlaps with another Cochrane Group, that Group is asked to contribute to our editorial process by providing a peer-reviewer.

ACE Editorial Office

The ACE Editorial Office is located at Herlev Hospital, Herlev, Denmark and consists of:

Ann M. Møller, MD, PhD, DMSc, Professor of Anaesthesiology
Co-ordinating Editor

Nathan Pace, MD, MStat, Professor of Anaesthesiology
Co-ordinating Editor

Jane Cracknell, RN, BA, MSc
Managing Editor

Janne Vendt
Information specialist

Monika Afzali, MD
Editorial Assistant

Karin F. Jespersen
Administrative co-ordinator

Greetings from our new Information Specialist

My name is Janne Vendt and I am the new Information Specialist in Cochrane ACE. My job is to help authors of Cochrane ACE reviews to design good and comprehensive search strategies that capture all relevant trials relating to a topic. I am a trained librarian and I have worked for several years in a University Hospital. In my opinion, the best way to develop good search strategies for our reviews is co-operation between the Information Specialist and the authors. I can guide the authors on which databases to search and, as different databases require different search syntax, I can help with design of the various search strategies. Unless the authors have significant knowledge and experience of information searching, or have access to help from another Information Specialist, I would encourage them to allow me to review their draft strategy early on in the process. I am looking forward to working with our authors.

ACE Editors

The ACE Editors come from all over the world:

CONTENT EDITORS

Arash Afshari, Denmark
Mike Bennett, Australia
Bronagh Blackwood, UK
Rodrigo Cavallazzi, USA
Javier Eslava-Schmalbach, Colombia
Harald Herkner, Austria
Stephan Kettner, Austria
Anna Lee, Hong Kong SAR
Mark Neuman, USA
Nicola Petrucci, Italy
Andrew Smith, UK

CONSUMER EDITOR

Janet Walsh, Australia
FEEDBACK EDITOR
Bronagh Blackwood, UK

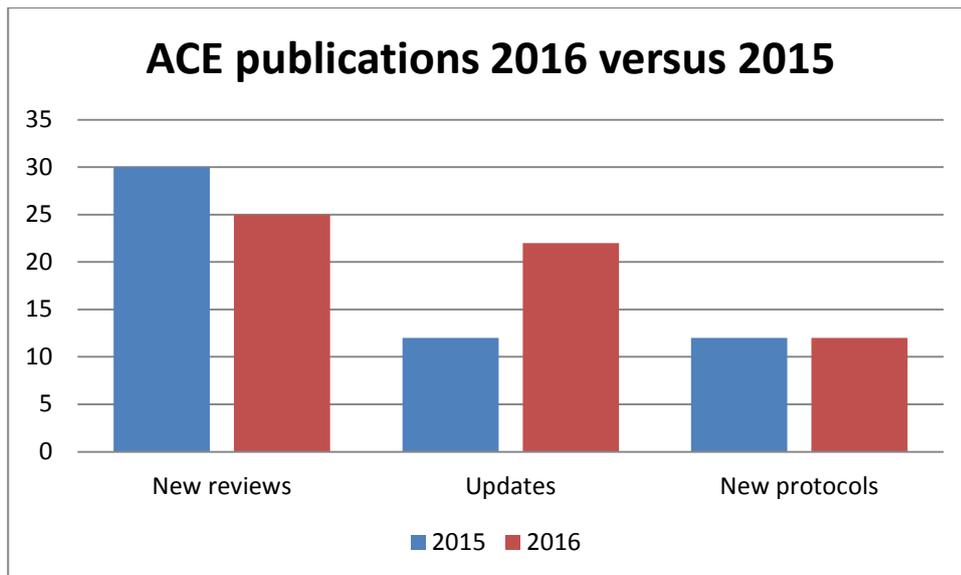
STATISTICAL EDITORS

Asieh Golzar, USA
Vibeke Horstmann, Sweden
Marialena Trivella, UK
Cathal D Walsh, Ireland
Jing (Sophia) Xie, Australia
Nathan Pace, USA

We achieved the following goals in 2016

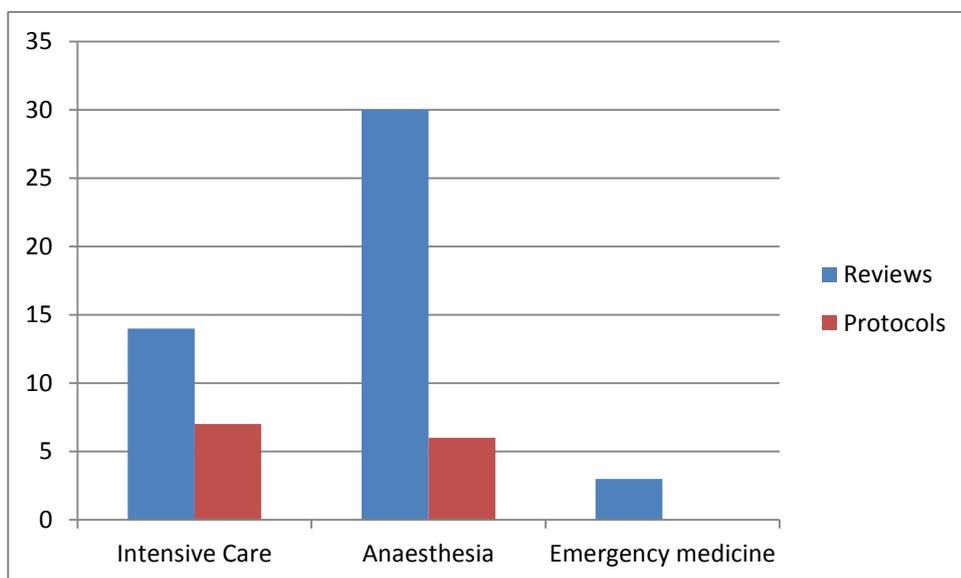
- We held monthly editorial screening teleconferences to improve the quality of our protocols and reviews
- We recruited a new information specialist (Janne Vendt), and an administrative co-ordinator (Karin Jespersen)
- We held a joint BJA and ACE training meeting in London

Publications in the Cochrane Library, 2016



In 2016, ACE focused on the quality of the reviews, but still managed to publish a large number of reviews. We published 25 new reviews, 22 updates and 12 protocols compared to 30 new reviews, 12 updates and 12 protocols in 2015.

The reviews and protocols are divided into three main areas: Intensive Care, Anaesthesia and Emergency Medicine. The figure below shows how the reviews and protocols are distributed in these three areas in 2016:



We would like to thank each and every one of our authors who contributed to our publication success in 2016.

Citation rate

In 2015 77 ACE reviews were cited in total 377 times. Note that the year is a year behind as the number of citations cannot be calculated until all publications have been processed by the indexing agency.

The ten most cited reviews from ACE

| Review Title | Times cited |
|---|-------------|
| Pulmonary artery catheters for adult patients in intensive care | 21 |
| Fibrinogen concentrate in bleeding patients | 19 |
| Beta lactam antibiotic monotherapy versus beta lactam-aminoglycoside antibiotic combination therapy for sepsis | 17 |
| Lung protective ventilation strategy for the acute respiratory distress syndrome | 16 |
| Music interventions for preoperative anxiety | 15 |
| Intravenous immunoglobulin for treating sepsis, severe sepsis and septic shock | 14 |
| Nonsteroidal anti-inflammatory drugs and perioperative bleeding in paediatric tonsillectomy | 13 |
| Protocolized versus non-protocolized weaning for reducing the duration of mechanical ventilation in critically ill adult patients | 13 |
| Daily sedation interruption versus no daily sedation interruption for critically ill adult patients requiring invasive mechanical ventilation | 12 |
| Perioperative beta-blockers for preventing surgery-related mortality and morbidity | 8 |

The ten most accessed Cochrane Systematic Reviews from ACE

| Review Title | Full Text Accesses |
|---|--------------------|
| Incentive spirometry for prevention of postoperative pulmonary complications in upper abdominal surgery | 2,784 |
| Music interventions for preoperative anxiety | 2,532 |
| Beta lactam antibiotic monotherapy versus beta lactam-aminoglycoside antibiotic combination therapy for sepsis | 1,944 |
| Hypothermia for neuroprotection in adults after cardiopulmonary resuscitation | 1,818 |
| Intravenous immunoglobulin for treating sepsis, severe sepsis and septic shock | 1,752 |
| Daily sedation interruption versus no daily sedation interruption for critically ill adult patients requiring invasive mechanical ventilation | 1,752 |
| Noninvasive positive-pressure ventilation as a weaning strategy for intubated adults with respiratory failure | 1,680 |
| Continuous intravenous perioperative lidocaine infusion for postoperative pain and recovery | 1,569 |
| Lung protective ventilation strategy for the acute respiratory distress syndrome | 1,550 |

| | |
|---|-------|
| Preoperative carbohydrate treatment for enhancing recovery after elective surgery | 1,501 |
|---|-------|

Collaboration between ACE and the UK National Institute for Health Research (NIHR)

The University Hospitals of Morecambe Bay NHS Trust (UHMB) UK have been awarded two National Institute for Health Research (NIHR) and Cochrane Collaboration Programme Grants, to produce a series of systematic reviews on the safety and quality of perioperative care and recovery after surgery and critical illness. The team is based in Lancaster, UK and led by Prof Andrew Smith (ACE editor and Director, Lancaster Patient Safety Research Unit). ACE provides editorial support for these reviews.

In 2016 the NIHR/Cochrane published two new reviews, one updated review and five new protocols.

New reviews:

- Warttig S, Alderson P, Lewis SR, Smith AF. Intravenous nutrients for preventing inadvertent perioperative hypothermia in adults. Cochrane Database of Systematic Reviews 2016, Issue 11. Art. No.: CD009906. DOI 10.1002/14651858.CD009906.pub2
- Lewis SR, Butler AR, Parker J, Cook TM, Smith AF. Videolaryngoscopy versus direct laryngoscopy for adult patients requiring tracheal intubation. Cochrane Database of Systematic Reviews 2016, Issue 11. Art. No.: CD011136. DOI 10.1002/14651858.CD011136.pub2

Updated review:

- Lewis SR, Butler AR, Brammar A, Nicholson A, Smith AF. Perioperative fluid volume optimization following proximal femoral fracture. Cochrane Database of Systematic Reviews 2016, Issue 3. Art. No.: CD003004. DOI: 10.1002/14651858.CD003004.pub4 <http://onlinelibrary.wiley.com/doi/10.1002/14651858.CD003004.pub4/abstract>

New protocols:

- Lewis SR, Butler AR, Alderson P, Smith AF. Enteral versus parental nutrition for adults in the intensive care unit (protocol). Cochrane Database of Systematic Reviews 2016, Issue 7. Art. No.: CD012276. DOI: 10.1002/14651858.CD012276
- Miller ID, Shelton CL, Lewis SR, Alderson P, Smith AF. Intravenous versus inhalational maintenance of anaesthesia for postoperative cognitive outcomes in elderly surgical patients (Protocol). Cochrane Database of Systematic Reviews 2016, Issue 8. Art. No.: CD012317. DOI: 10.1002/14651858.CD012317
- Ewans DJW, Lewis SR, Kourbeti IS, Alderson P, Smith AF. Automated monitoring for the early detection of sepsis in critically ill patients (Protocol). Cochrane Database of Systematic Reviews 2016, Issue 10. Art. No.: CD012404. DOI: 10.1002/14651858.CD012404
- Lewis SR, Alderson P, Smith AF. Propofol for the promotion of sleep in the intensive care unit (Protocol). Cochrane Database of Systematic Reviews 2016, Issue 11. Art. No.: CD012454. DOI: 10.1002/14651858.CD012454
- Lewis SR, Alderson P, Smith AF. Melatonin for the promotion of sleep in the intensive care unit (Protocol). Cochrane Database of Systematic Reviews 2016, Issue 11. Art. No.: CD012455. DOI: 10.1002/14651858.CD012455

Cochrane ACE in London

Our editors Jane Cracknell (Managing Editor), Ann Merete Møller (Co-ordinating Editor), Harald Herkner (Content Editor), Marialena Trivella (Statistical Editor), Monika Afzali (Editorial Assistant) and Toby Lasserson (Senior Editor – Cochrane Editorial Unit) held a workshop for the British Journal of Anaesthesia and The Royal College of Anaesthetists in London. The workshop was held on the 7th of June 2016 and was a Research Methodology Masterclass on systematic reviews and meta-analysis.



The workshop was a success and the overall feedback was very positive with comments like:

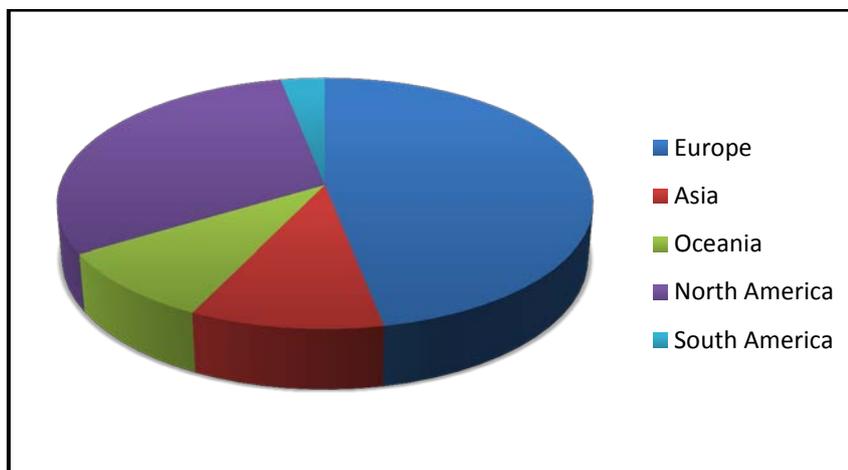
- “I must admit I went to this unsure whether it would be good or not. In the end, judged just right. A good mixture of basic and more advanced skills. Also a good mixture of interpretation skills, along with an introduction into how perform meta-analysis.”
- “Overall the content was good. Very well explained research methodology.”
- “It provides a good basis for understanding systematic reviews and what to think about when critically appraising them.”

The workshop will be repeated again at the 8th of June 2017. You can register online for the workshop if you follow this [link](#).



Peer reviewers

Our peer reviewers come from all over the world. Below you can see the distribution of our peer reviewers in the different continents.



We would like to thank all the peer reviewers who have contributed to the ACE peer review process. Special thanks go to the following peer reviewers who contributed to the editorial process of a protocol or review published or withdrawn in 2016:

Peer reviewers North America

- Andre C. Kalil, US
- Angela Jerath, Canada
- Anthony Eidelman, US
- Arthur Atchabahian, US
- Ashraf S. Habib, US
- Bradley Freeman, US
- Brian Gehlbach, US
- Claude Abdallah, US
- Claudio A. Bravo, US
- Darell Schmick, US
- David B. Glick, US
- Davide Cattano, US
- Ewan C. Goligher, Canada
- Ewan D. McNicol, US
- Gerald Weinhouse, US
- Harriet W. Hopf, US
- James Paul, Canada
- Joanne Guay, Canada
- Joshua Atkins, US
- Marjolein de Wit, US
- Melissa L. Rethlefsen, US
- Mellanye Lackey, US
- Mazen Bader, Canada
- Naomi E Cahill, Canada
- Richard P. Dutton, US
- Robert F. Seal, Canada
- Russel J. Roberts, US
- Tallie Casucci, US
- Todd Rice, US
- Tom J. Overend, Canada

Peer reviewers Asia

- Chi Wai Cheung, HKG
- Davoud Vahabzadeh, Iran
- Fahad Javaid Siddiqui, Singapore
- Jin-Tae Kim, South Korea
- Rajesh M. Shetty, India
- Massimo Lamperti, ARE
- Shu Ming Pan, China
- Yodying Punjasawadwong, THA
- Nelson Chua, Singapore

Peer reviewers Europe

- Andrew MacDuff, UK
- Andrew Moore, UK
- Annelies Moerman, B
- Anthony Gordon, UK
- Antoine Roch, France
- Bernard G. Fikkers, NL
- Bitu Mesgarpur, Austria
- Brett Doleman, UK
- Charles D. Deakin, UK
- Christoffer C. Jørgensen, DK
- David J. Leaper, UK
- Djillali Annane, France
- Edward Burdett, UK
- Emmanuel Boselli, France
- Ernst-Peter Horn, Germany
- Fang Gao Smith, UK
- Federico Bilotta, Italy
- Francis Bonnet, France
- Heinrich Rüschen, UK
- Ian Russell, UK
- Janet Harris, UK
- James Palmer, UK
- Jasmeet Soar, UK
- Jean-Louis Vincent, Belgium
- Jonas Nygren, Sweden
- Jørgen Wetterslev, DK
- Giancarlo M. Liubruno I
- Katrine B. Buggeskov, Denmark
- Kevin J. Walker, UK
- Leopold HJ Eberhart, DE
- Marc Gentili, France
- Michael Donnelly, UK
- Michael Wang, UK
- Michel Struys, France
- Oliver Kimberger, Austria
- Philippe Eggimann, CHE
- Pierre Foex, UK
- Santosh Rath, UK
- Sheena Derry, UK
- Thomas A. Bongers, UK
- Thordis Thomsen, Denmark
- Torsten Loop, Germany
- Vaughan L. Thomas, UK
- V. J. Ramesh, UK
- Wulf Dietrich, Germany
- Yvonne Nyman, Sweden

Peer reviewers Oceania

- Allan M. Cyna, Australia
- Gordon S. Doig, Australia
- Kate Leslie, Australia
- Mathew Zacharias, NZ
- Paul S. Myles, Australia
- Peter Kruger, Australia
- Sue Huckson, Australia
- Suzanne Robertson-Malt, AUS
- Stephan Schug, Australia

Peer reviewers South America

- Daniel Molano Franco, Columbia
- Luis Muñoz, Columbia
- Mario I. Perman, Argentina
- Pedro Hi Pohl, Brazil

Our goals for 2017

- To continuously improve the quality and the clinical relevance of ACE reviews ‘fewer, better reviews’
- To recruit more editors
- To hold an editors’ meeting in Verona
- To hold another joint BJA and ACE training workshop in London

Editor meeting in Verona, Italy in 2017

We try to have an editors’ meeting every second year so that we can share knowledge and competences. The next editor meeting is going to be in Verona, Italy from the 9th of October until the 13th of October 2017. We are looking forward to seeing all of our editors there, and they will get further information during spring 2017. If you have any questions regarding the editor meeting please contact our new administrative co-ordinator Karin Jespersen at Karin.frydenlund.jespersen@regionh.dk

Thank you to our funders

- Region Hovedstaden
- Minister Erna Hamiltons Legat for Videnskab og Kunst