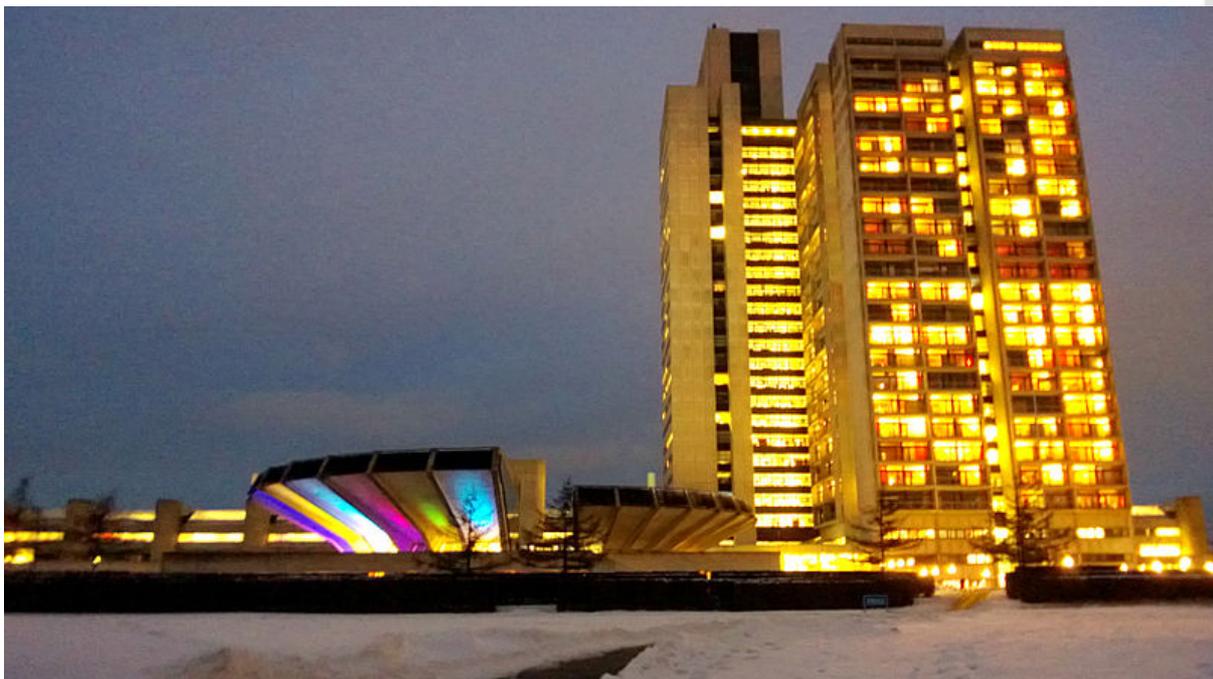


# Cochrane Anaesthesia & Cochrane Emergency and Critical Care

## ANNUAL REPORT



## **2018: moving from strength to strength.....**

We are proud to present Cochrane Anaesthesia & Cochrane Emergency and Critical Care achievements for 2018. Check out our 'impacts' on page 5.

### **Focus**

We are continuing to focus on producing a smaller number of reviews and curating, maintaining and updating our existing substantial review portfolio. This does not mean less work for the Groups, as high-quality reviews need substantial editorial effort to guide them successfully to publication. We are now also committing more time and resources to promoting and disseminating our reviews. The changes in Cochrane structures and processes have also kept us busy. Finally, the prioritization of relevant, meaningful topics and outcomes remains important to us.

### **Changes within Cochrane**

The Cochrane Steering Group has decided to reorganize the review Group's structure, and function and we were divided into two new Groups: Cochrane Anaesthesia, and Cochrane Emergency and Critical Care. Further, Cochrane has created eight new Networks of Cochrane Review Groups (CRGs). Our two Groups are part of the Acute and Emergency Care Network, along with Acute Respiratory Infections; Bone, Joint and Muscle Trauma; and Injuries. We look forward to collaborating with our new Network colleagues.

### **Changes within the Groups**

Ann Møller and Nathan Pace have stepped down as Co-ordinating Editors. They will continue their involvement for the two new Groups. These two new Groups will be led by Andy Smith (Anaesthesia), and Harald Herkner (Emergency and Critical Care), who have previously been editors in the group, for many years. All of our achievements, past and present, have been made possible by the leadership of Ann and Nathan. Ann has been our Co-ordinating Editor for 15 years, and Nathan for seven years. They both were involved from the very beginning of the Group in 2000 and we would like to thank Ann and Nathan for their wonderful contributions over the years. They will both continue their involvement as Financial Director and Senior Statistical Editor respectively. We also successfully recruited four new editors.

### **Our processes**

We continue to hold our monthly editorial teleconferences and are becoming stringent about accepting new titles. We are also finalizing a prioritization strategy and developing a dissemination tool to help review authors promote their finished work.

### **Our publications**

In 2018 we published 24 new reviews and 8 updates. Browse them on pages 6-9. Cite them, share them, and use them!

### **Impacts**

Publishing a review on the Cochrane Library is only the start. We monitor citation rates, downloads of reviews from the Library and other measures of interest in our reviews such as Altmetric attention scores. More information is on pages 10 and 11.

We are pleased that our work has been showcased at major international meetings and included in guidelines. You can read more on page 4.

### **Funding**

The funding we receive from the Danish Government and Capital Health Region and Minister Erna Hamiltons Legat for Videnskab og Kunst is matched many times over by the unpaid, voluntary contributions of our editors, authors and peer reviewers worldwide. We also secured £17 500 from the UK National Institute of Health Research to help update three of our reviews.

### **About us**



From left to right: Monika Afzali Rubin, Karin Frydenlund Jespersen, Harald Herkner, Andrew Smith, Janne Vendt & Ann Møller.

Our **Editorial Office** is located at Herlev Hospital, Herlev, Denmark and consists of:

Andrew Smith, Professor of Anaesthesia, Co-ordinating Editor, Cochrane Anaesthesia  
Harald Herkner, Professor of Emergency Medicine, Co-ordinating Editor, Cochrane Emergency and Critical Care  
Ann M. Møller, Professor of Anaesthesiology, Financial Director and Content Editor  
Jane Cracknell, Managing Editor<sup>1</sup>  
Janne Vendt, Information Specialist  
Monika Afzali Rubin, Editorial Assistant  
Karin Frydenlund Jespersen, Administrative Co-ordinator

Websites:

[Cochrane Anaesthesia & Cochrane Emergency and Critical Care](#)

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<sup>1</sup> New Managing Editor as of 1<sup>st</sup> of May 2019 Teo Quay



From left to right: Janne Vendt, Harald Herkner, Andrew Smith, Jasmin Arrich (Editor), Ann Møller, Marialena Trivella (Editor), Jane Cracknell, Sharon Lewis (Network Support Fellow)

### **Our editors**

Our editors come from many parts of the world.

#### Content Editors (Anaesthesia):

Ann Møller, Denmark  
Anna Lee, Hong Kong SAR  
Harald Herkner, Austria  
Mike Bennett, Australia  
Lars Hyldborg Lundstrøm, Denmark  
Stephanie Weibel, Germany

#### Content Editors (Emergency and Critical Care):

Ann Møller, Denmark  
Andrew Smith, UK  
Anna Lee, Hong Kong SAR  
Arash Afshari, Denmark  
Nicola Petrucci, Italy  
Bronagh Blackwood, UK  
Jasmin Arrich, Germany

#### Statistical Editors (both Groups):

Cathal D Walsh, Ireland  
Jing (Sophia) Xie, Australia  
Marialena Trivella, UK  
Nathan Pace (senior statistical editor), USA  
Susanne Schmitz, Luxembourg  
Vibeke Horstmann, Sweden

#### Consumer editor (both Groups):

Janet Walsh, Australia

#### Feedback Editor (both Groups):

Jasmin Arrich, Germany

We would like to express our thanks to the following editors for their past contribution to the Groups: Javier Eslava-Schmalbach (Colombia), Mark Neuman (USA). We would like to welcome the following editors to the Groups: Jasmin Arrich (Germany), Lars Hyldborg Lundstrøm (Denmark), Stephanie Weibel (Germany) and Suzanne Schmitz (Luxembourg).

### **Our impacts**

As well as the citation rates and download figures below, we are pleased to see our Group and its reviews continuing to engage health professionals and link to policy and practice.

One example is our review of bedside tests for predicting difficult airways, which achieved an Altmetric score (reflecting social media and academic interest) of 66 within weeks of its launch. This put it in the top 5% of research outputs scored by Altmetric. The lead author was invited to present the review to over 500 anaesthetists at the Difficult Airway Society's meeting in Edinburgh in November 2018. It is also being cited in the Society's forthcoming guidelines on Awake Tracheal Intubation, the latest in their series of internationally used and acclaimed airway management recommendations.

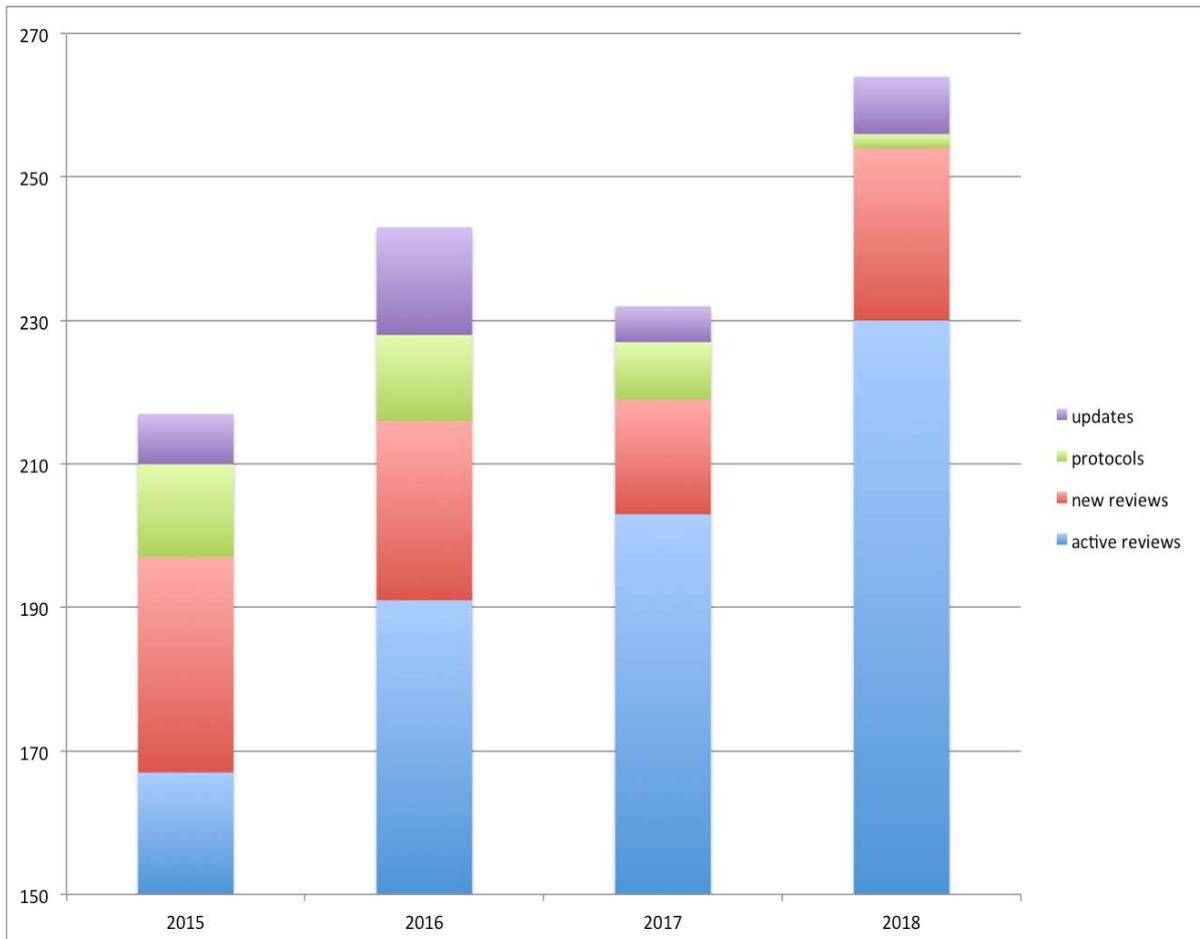
You can read the full review following the link here:

[Airway physical examination tests for detection of difficult airway management in apparently normal adult patients.](#)

## Our publications

2018 saw us publish 24 new reviews and 8 updates. We are now registering fewer titles. This has led to a reduction in the number of new protocols published each year. This subsequently will lead to a significant reduction in the number of reviews. Our aim is to conduct a prioritization exercise, which will reduce the number of publications still further; leading to 'fewer, better, reviews'. We would like to thank each and every one of our authors who contributed to our publication success in 2018.

### The Groups' publications from 2015 to 2018



On the following pages you can click on the title to see the reviews.  
Please share, cite and use them as much as you can!

## **Anaesthesia – new reviews**

### Adverse side effects of dexamethasone in surgical patients.

Polderman JAW, Farhang-Razi V, Van Dieren S, Kranke P, DeVries JH, Hollmann MW, Preckel B, Hermanides J.

### Airway physical examination tests for detection of difficult airway management in apparently normal adult patients.

Roth D, Pace NL, Lee A, Hovhannisyann K, Warenits AM, Arrich J, Herkner H.

### Alpha-2 adrenergic agonists for the prevention of cardiac complications among adults undergoing surgery.

Duncan D, Sankar A, Beattie WS, Wijeyesundera DN.

### Aromatherapy for treatment of postoperative nausea and vomiting.

Hines S, Steels E, Chang A, Gibbons K.

### Automated mandatory bolus versus basal infusion for maintenance of epidural analgesia in labour.

Sng BL, Zeng Y, de Souza NNA, Leong WL, Oh TT, Siddiqui FJ, Assam PN, Han NLR, Chan ESY, Sia AT.

### Cerebral near-infrared spectroscopy (NIRS) for perioperative monitoring of brain oxygenation in children and adults.

Yu Y, Zhang K, Zhang L, Zong H, Meng L, Han R.

### Continuation versus discontinuation of antiplatelet therapy for bleeding and ischaemic events in adults undergoing non-cardiac surgery.

Lewis SR, Pritchard MW, Schofield-Robinson OJ, Alderson P, Smith AF.

### Continuous intravenous perioperative lidocaine infusion for postoperative pain and recovery in adults.

Weibel S, Jelting Y, Pace NL, Helf A, Eberhart LHJ, Hahnenkamp K, Hollmann MW, Poepping DM, Schnabel A, Kranke P.

### Epidural analgesia versus patient-controlled intravenous analgesia for pain following intra-abdominal surgery in adults.

Salicath JH, Yeoh ECY, Bennett MH.

### Injectable local anaesthetic agents for dental anaesthesia.

St George G, Morgan A, Meechan J, Moles DR, Needleman I, Ng YL, Petrie A.

### Intraoperative use of low volume ventilation to decrease postoperative mortality, mechanical ventilation, lengths of stay and lung injury in adults without acute lung injury.

Guay J, Ochroch EA, Kopp S.

### Intravenous versus inhalational maintenance of anaesthesia for postoperative cognitive outcomes in elderly people undergoing non-cardiac surgery.

Miller D, Lewis SR, Pritchard MW, Schofield-Robinson OJ, Shelton CL, Alderson P, Smith AF.

Laryngeal mask airway versus endotracheal tube for percutaneous dilatational tracheostomy in critically ill adults.

Strametz R, Bergold MN, Weberschock T.

Local anaesthetics and regional anaesthesia versus conventional analgesia for preventing persistent postoperative pain in adults and children.

Weinstein EJ, Levene JL, Cohen MS, Andreae DA, Chao JY, Johnson M, Hall CB, Andreae MH.

Perioperative alcohol cessation intervention for postoperative complications.

Egholm JWM, Pedersen B, Møller AM, Adami J, Juhl CB, Tønnesen H.

Perioperative beta-blockers for preventing surgery-related mortality and morbidity.

Blessberger H, Kammler J, Domanovits H, Schlager O, Wildner B, Azar D, Schillinger M, Wiesbauer F, Steinwender C.

Pre-emptive and preventive opioids for postoperative pain in adults undergoing all types of surgery.

Doleman B, Leonardi-Bee J, Heinink TP, Bhattacharjee D, Lund JN, Williams JP.

Processed electroencephalogram and evoked potential techniques for amelioration of postoperative delirium and cognitive dysfunction following non-cardiac and non-neurosurgical procedures in adults.

Punjasawadwong Y, Chau-in W, Laopaiboon M, Punjasawadwong S, Pin-on P.

Protocol-directed sedation versus non-protocol-directed sedation in mechanically ventilated intensive care adults and children.

LM, Bucknall T, Kent B, Mitchell M, Burmeister E, Keogh SJ.

Pulmonary artery perfusion versus no perfusion during cardiopulmonary bypass for open heart surgery in adults.

Buggeskov KB, Grønlykke L, Risom EC, Wei ML, Wetterslev J.

Use of hyaluronidase as an adjunct to local anaesthetic eye blocks to reduce intraoperative pain in adults.

Rüschen H, Aravinth K, Bunce C, Bokre D.

## **Emergency and Critical Care – new reviews**

### Automated monitoring compared to standard care for the early detection of sepsis in critically ill patients.

Warttig S, Alderson P, Evans DJW, Lewis SR, Kourbeti IS, Smith AF.

### BIS monitoring versus clinical assessment for sedation in mechanically ventilated adults in the intensive care unit and its impact on clinical outcomes and resource utilization.

Shetty RM, Bellini A, Wijayatilake DS, Hamilton MA, Jain R, Karanth S, Namachivayam A.

### Early intervention (mobilization or active exercise) for critically ill adults in the intensive care unit.

Doiron KA, Hoffmann TC, Beller EM.

### Enteral versus parenteral nutrition and enteral versus a combination of enteral and parenteral nutrition for adults in the intensive care unit.

Lewis SR, Schofield-Robinson OJ, Alderson P, Smith AF.

### Interventions for treating acute high-altitude illness.

Simancas-Racines D, Arevalo-Rodriguez I, Osorio D, Franco JVA, Xu Y, Hidalgo R.

### Interventions for preventing high altitude illness: Part 2. Less commonly-used drugs.

Gonzalez Garay A, Molano Franco D, Nieto Estrada VH, Martí-Carvajal AJ, Arevalo-Rodriguez I.

### Interventions for preventing intensive care unit delirium in adults.

Herling SF, Greve IE, Vasilevskis EE, Egerod I, Bekker Mortensen C, Møller AM, Svenningsen H, Thomsen T.

### Melatonin for the promotion of sleep in adults in the intensive care unit.

Lewis SR, Pritchard MW, Schofield-Robinson OJ, Alderson P, Smith AF.

### Prescribed hypocaloric nutrition support for critically-ill adults.

Perman MI, Ciapponi A, Franco JVA, Loudet C, Crivelli A, Garrote V, Perman G.

### Propofol for the promotion of sleep in adults in the intensive care unit.

Lewis SR, Schofield-Robinson OJ, Alderson P, Smith AF.

### Vascular access specialist teams for device insertion and prevention of failure.

Carr PJ, Higgins NS, Cooke ML, Mihala G, Rickard CM.

## Journal impact factor

Our ten most cited reviews in 2017.

CD Number	Title	Times Cited
CD007871.pub3	Thromboelastography (TEG) or thromboelastometry (ROTEM) to monitor haemostatic treatment versus usual care in adults or children with bleeding	30
CD009642.pub2	Continuous intravenous perioperative lidocaine infusion for postoperative pain and recovery in adults	28
CD011136.pub2	Videolaryngoscopy versus direct laryngoscopy for adult patients requiring tracheal intubation	26
CD004128.pub4	Hypothermia for neuroprotection in adults after cardiopulmonary resuscitation	23
CD009121.pub2	Paravertebral block versus thoracic epidural for patients undergoing thoracotomy	22
CD002243.pub3	Corticosteroids for treating sepsis	20
CD008884.pub2	The effects of high perioperative inspiratory oxygen fraction for adult surgical patients	20
CD003281.pub4	Stimulation of the wrist acupuncture point PC6 for preventing postoperative nausea and vomiting	18
CD002787.pub3	Inhaled nitric oxide for acute respiratory distress syndrome (ARDS) in children and adults	17
CD010356.pub2	Preoperative inspiratory muscle training for postoperative pulmonary complications in adults undergoing cardiac and major abdominal surgery	17

## Cochrane Anaesthesia

The 10 most accessed reviews in 2018 were:

Review title	Times accessed
Continuous intravenous perioperative lidocaine infusion for postoperative pain and recovery in adults	5,915
Incentive spirometry for prevention of postoperative pulmonary complications in upper abdominal surgery	5,644
Music interventions for preoperative anxiety	3,840
Active body surface warming systems for preventing complications caused by inadvertent perioperative hypothermia in adults	2,722
Preoperative inspiratory muscle training for postoperative pulmonary complications in adults undergoing cardiac and major abdominal surgery	2,681
Warming of intravenous and irrigation fluids for preventing inadvertent perioperative hypothermia	2,648
Preoperative carbohydrate treatment for enhancing recovery after elective surgery	2,525
Psychological preparation and postoperative outcomes for adults undergoing surgery under general anaesthesia	2,326
Efficacy and safety of sugammadex versus neostigmine in reversing neuromuscular blockade in adults	2,239
Airway physical examination tests for detection of difficult airway management in apparently normal adult patients	2,189

Click on the title to see the review.

In 2018 the top 2 reviews were cited 56% and 38% more than in 2017, respectively.

## Cochrane Emergency and Critical Care

The 10 most accessed reviews in 2018 were:

Review title	Times accessed
Non-pharmacological interventions for sleep promotion in the intensive care unit	5,950
Early intervention (mobilization or active exercise) for critically ill adults in the intensive care unit	4,389
Corticosteroids for treating sepsis	4,244
Hypothermia for neuroprotection in adults after cardiopulmonary resuscitation	3,241
Vasopressors for hypotensive shock	3,081
Pressure-controlled versus volume-controlled ventilation for acute respiratory failure due to acute lung injury (ALI) or acute respiratory distress syndrome (ARDS)	3,026
Prone position for acute respiratory failure in adults	2,719
Effectiveness and safety of procalcitonin evaluation for reducing mortality in adults with sepsis, severe sepsis or septic shock	2,688
Pressure support versus T-tube for weaning from mechanical ventilation in adults	2,486
Thromboelastography (TEG) or thromboelastometry (ROTEM) to monitor haemostatic treatment versus usual care in adults or children with bleeding	2,420

Click on the title to see the review.

In 2018 the first and third named reviews were cited 39% and 51% more than in 2017, respectively.

## Peer reviewers

Our peer reviewers come from all over the world. They form a large network of unpaid experts who help us maintain clinical focus and methodological quality and we are very grateful to them for their time and efforts. Below you can see the distribution of our peer reviewers in the different continents.

### Africa

Mahmoud B Alhassan (**Nigeria**)

### Asia

Chi Wai Cheung (**Hong Kong**)

Patricia Tong (**Hong Kong**)

Sui Cheng Yu (**Hong Kong**)

Preethy Mathew (**India**)

Rajesh M Shetty (**India**)

Fakher Rahim (**Iran**)

Matiram Pun (**Nepal**)

Marissa M Alejandria (**Philippines**)

Yodying Punjasawadwong (**Thailand**)

### Europe

Martin Burtscher (**Austria**)

Alex Michael Casaer (**Belgium**)

Michael Struys (**Belgium**)

Daniel M Shabanzadeh (**Denmark**)

Katrine Buggeskov (**Denmark**)

Ole Mathiesen (**Denmark**)

Dominique Fletcher (**France**)

Emmanuel Boselli (**France**)

Jacques Ripart (**France**)

Jean-Pierre C Estebe (**France**)

Pierre Diemunsch (**France**)

Ernst-Peter Horn (**Germany**)

Argyro Fassoulaki (**Greece**)

Gianni Virgili (**Italy**)

Laura Amato (**Italy**)

Bernard Fikkers (**Netherlands**)

Winnie Schats (**Netherlands**)

Domenico Prisco (**Italy**)

Jan G. Jakobsson (**Sweden**)

Haldun Akoglu (**Turkey**)

Andrew MacDuff (**UK**)

Ben Gibbison (**UK**)

Bill Simpson (**UK**)

Derek Richards (**UK**)

Edward T. Gilbert-Kawai (**UK**)

Imogen Featherstone (**UK**)

Louise O'Connor (**UK**)

Michael J. Desborough (**UK**)

Najma Siddiqi (**UK**)

Paul Ashley (**UK**)

Pierre Foex (**UK**)

R. Peter Alston (**UK**)

Subrahmanyam Radhakrishna (**UK**)

Thomas A. Bongers (**UK**)

### North America

Albert Moore (**Canada**)

Alka Kaushal (**Canada**)

Angela Jerath (**Canada**)

Anne Lydiatt (**Canada**)

Jean-Francois Kozak (**Canada**)

Joanne Guay (**Canada**)

Khursheed Jeejeebhoy (**Canada**)

Lisa Burry (**Canada**)

Martin R. Lessard (**Canada**)

Miguel F. Arango (**Canada**)

Neill KJ. Adhikari (**Canada**)

Sandra Doherty (**Canada**)

Stephen Halpern (**Canada**)

Tom J. Overend (**Canada**)

Aron M. Joffe (**USA**)

David T. Huang (**USA**)

Douglas Coursin (**USA**)

Francisco Pasquel (**USA**)

Frank Sasse (**USA**)

Gregory Snead (**USA**)

Hamdy Awad (**USA**)

Harriet W. Hopf (**USA**)

Jacqueline Dienemann (**USA**)

Janet L. Roseman (**USA**)

Jennifer C. Hirsh-Romano (**USA**)

Marjolein de Wit (**USA**)

Michael O'Connor (**USA**)

Nancy Moureau (**USA**)

Paul Marik (**USA**)

Rodrigo Cavallazzi (**USA**)

Benjamin G. Chousterman (USA)  
David Dickerson (USA)  
David R. Janz (USA)

Ronald L. Koretz (USA)  
Russel J. Roberts (USA)

**Oceania**

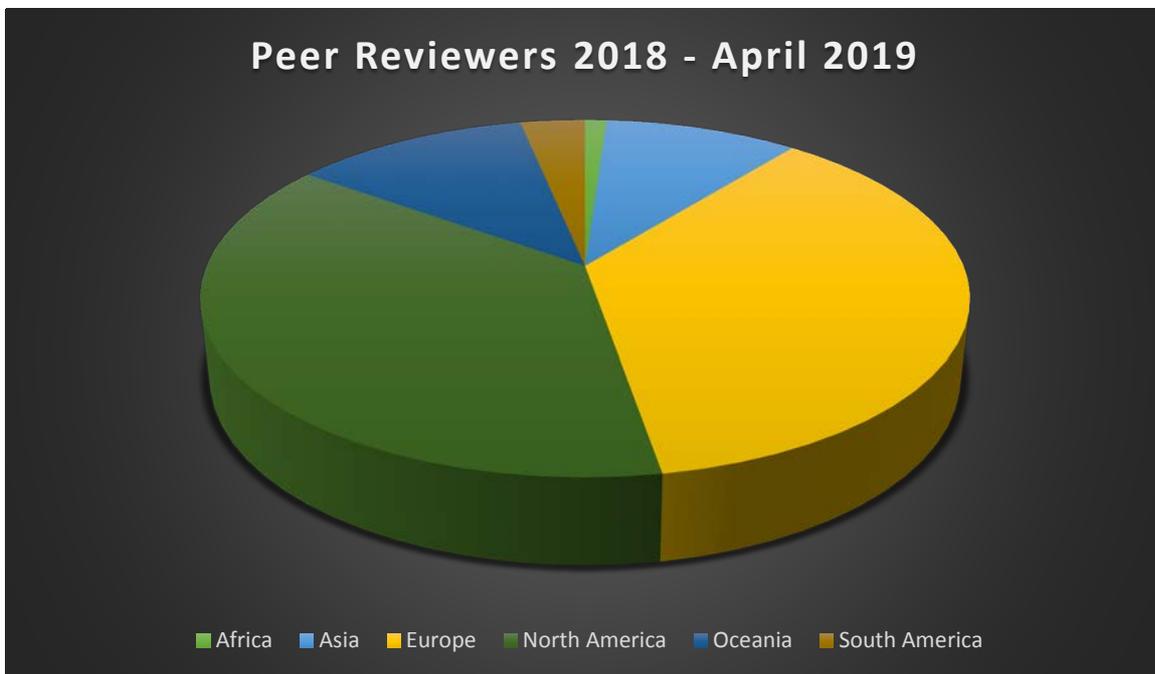
Ana Licina (Australia)  
Brian Stafford (Australia)  
Evan Alexandrou (Australia)  
Janet Whale (Australia)  
Linda Denehy (Australia)  
Peter Kruger (Australia)

Philip J. Peyton (Australia)  
Sue Berney (Australia)  
Sue Huckson (Australia)  
Teresa A. Williams (Australia)  
Tim Short (New Zealand)

**South America**

Andrea Lemos (Brazil)  
Regina El Dib (Brazil)

Miguel A. Ibarra (Mexico)



We would like to thank all our editors, our peer and consumer reviewers who have contributed to the process of publishing our reviews in 2018.

This report is published by Cochrane Anaesthesia & Cochrane Emergency and Critical Care. It is distributed worldwide. The Groups are part of The Cochrane Collaboration (UK registered Charity No. 1045921)  
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