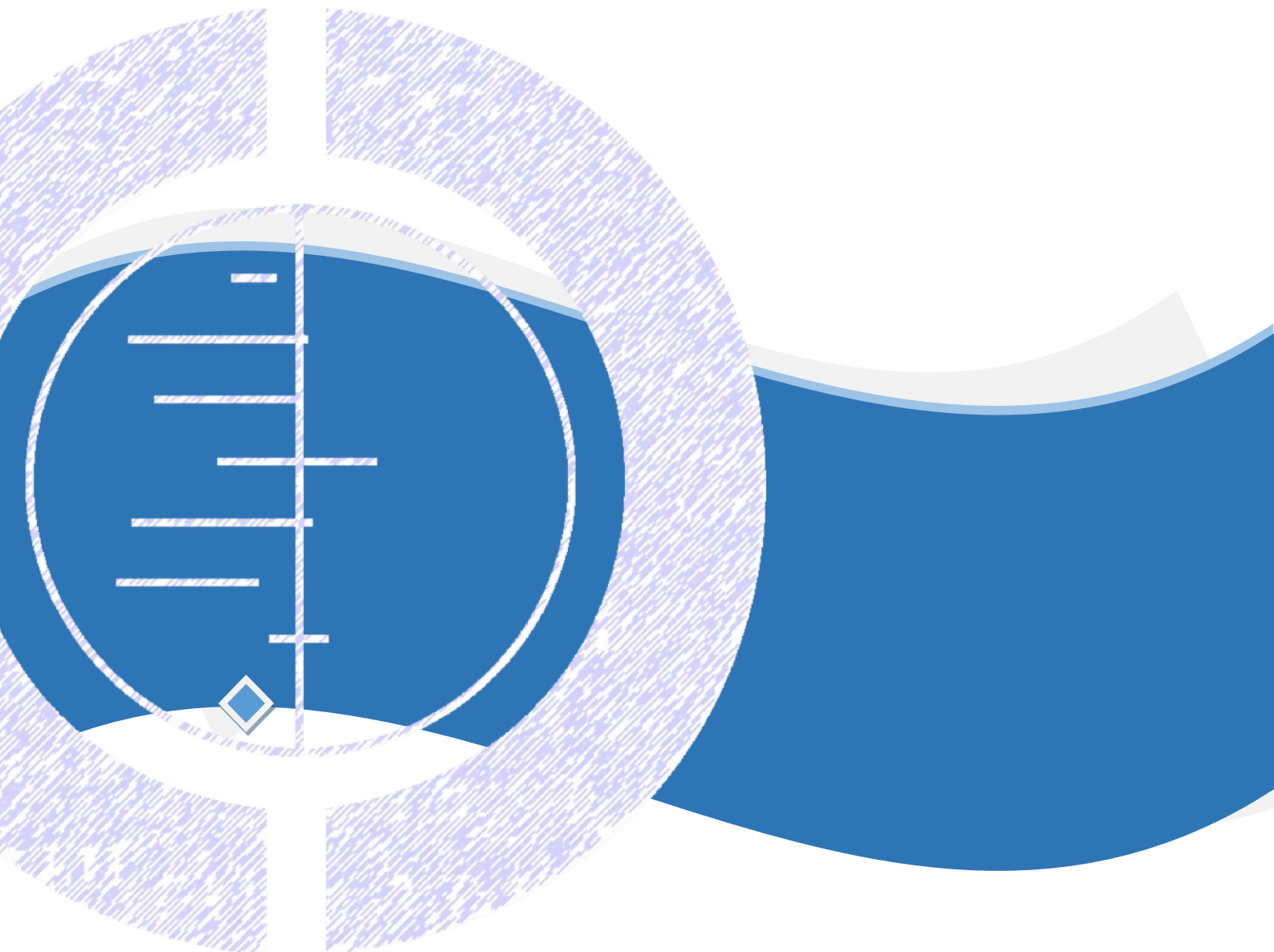


# THE COCHRANE ANAESTHESIA REVIEW GROUP

## ANNUAL REPORT 2013



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## Preface

### Welcome to the 2013 CARG annual report

This has been another busy year for both The Cochrane Collaboration and for the Cochrane Anaesthesia Review Group (CARG). *The Cochrane Library* is published on-line 12 times a year, which allows more frequent publications and a shorter delay between the approval of a protocol or review for publication and its appearance on-line. In 2013, we published 17 new reviews, 17 updated reviews and 25 protocols. The total number of CARG reviews and protocols in *The Cochrane Library* as of Issue 12 2013 is 103 reviews and 15 protocols.

The electronic system in ARCHIE for workflow is working well. It has sped up communication between and among the coordinating editors, the managing editor, editors, the peer reviewers and the authors. The workflow system tracks the status of each protocol and review that is in the editorial process. All editorial tasks are now generated via the workflow by the Managing Editor.

The increased workload in CARG requires us to further prioritise the reviews that we consider as important and are ready to support. From 2013 we have a new policy in CARG and will therefore not provide the authors with full searches but will continue supporting them with the design of their search strategies.

Almost daily, emails continue to reach the editorial office with expressions of interest from worldwide authors in registering titles in anaesthesia, emergency medicine and intensive care. The editors continue to refine the process for judging and accepting new titles within the limits of editorial time and availability.

2013 was a year of much travel. We attended the Cochrane Midyear Meetings in Oxford in March and the Cochrane Colloquium in Quebec Canada.

We would like to thank CARG's contributors everywhere who have put a great deal of effort into this review production. Without authors, editors, peer reviewers, translators, consumers and everyone else, there would be no CARG. So thank you for your tremendous work.

Finally, we would like to acknowledge and thank our main funder "Region Hovedstaden", and our other funders, who supported us in 2013. Without their important support it would not be possible to continue the work of CARG.

**Ann M. Møller (Co-ordinating Editor)**  
**Nathan Pace (Co-ordinating Editor)**  
**Jane Cracknell (Managing Editor)**

*Copenhagen, February 2014*

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## The Cochrane Anaesthesia Review Group (CARG)

CARG conducts systematic reviews of randomised controlled trials (RCTs) and other controlled clinical trials (CCTs) of interventions and diagnostic test accuracy, overviews, qualitative and prognosis reviews evaluating outcomes in:

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

We try to avoid any possible duplication of work by closely collaborating with other Collaborative Review Groups, which have overlapping scopes, such as the Cochrane Pregnancy and Childbirth Group, the Cochrane Injuries Group, and the Cochrane Pain, Palliative Care and Supportive Care Group. We ask the Cochrane Child Health Field to provide peers for all reviews that include children. We are committed to collaborating on topics that are on the borderline between Groups, both in performing the reviews as well as in the editorial process. If a CARG review potentially overlaps with another Cochrane Group, then that Group is asked to contribute to our editorial process by providing a peer-reviewer.

### CARG Editorial Office

The CARG Editorial Office is located in Rigshospitalet, Copenhagen, Denmark.

**Ann M Møller, MD, DMSc, Associate Professor of Anaesthesiology**  
**Co-ordinating Editor**

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

**Jane Cracknell, RN, BA, MSc**  
**Managing Editor**

**Karen Hovhannisyan, MD, MSc**  
**Trials Search Co-ordinator**

**Tom Pedersen, MD, DMSc**  
**Editorial advisor and treasurer**

**Christina Dahl Hansen, BSc**  
**Editorial Assistant**

## CARG Editors

- Arash Afshari, Denmark and Switzerland
- Michael Bennett, Australia
- Bronagh Blackwood (Feedback Editor)
- John Carlisle, UK (Sabbatical)
- Rodrigo Cavallazzi, USA
- Javier Eslava-Schmalbach, Colombia
- Harald Herkner, Austria
- Stephan Kettner, Austria
- Anna Lee, Hong Kong
- Ann M. Møller, Denmark
- Nathan Pace, USA (Senior Statistical Editor)
- Tom Pedersen, Denmark
- Nicola Petrucci, Italy
- Andrew Smith, UK
- Marialena Trivella, (Statistical Editor) UK
- Cathal D Walsh (Statistical Editor) Ireland
- Ronan O’Sullivan, Ireland
- Mark Neuman, USA

We welcomed three new editors in 2013: Bronagh Blackwood, Rodrigo Cavallazzi and Javier Eslava-Schmalbach.

Another editor, Mathew Zacharias, retired as an active CARG editor in 2013 and became a member of the CARG advisory board. We would like to thank Mathew for his long years of service to the group. We would not have achieved our success without him.

## CARG Members

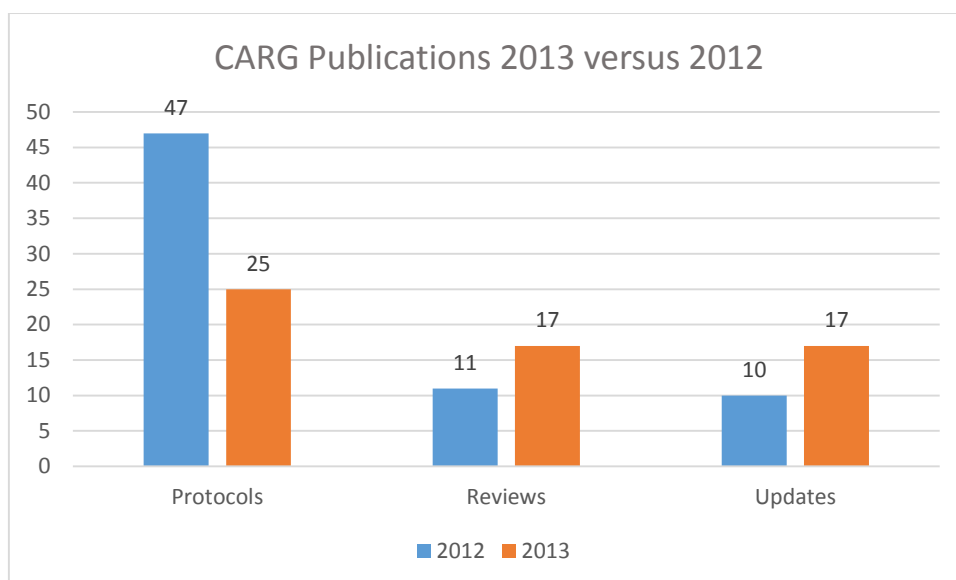
We have a broad membership of individuals, many of whom are active and contribute to our work by performing systematic reviews, editing, peer refereeing, hand searching, translating or extracting data.

Publication in medical journals and in *The Cochrane Library*, the CARG website, the CARG newsletter, and intense recruitment at conferences have all contributed to our rapid growth.

## Publications in *The Cochrane Library*, 2013

We published 25 protocols, 17 new reviews and 17 updated reviews in 2013, compared to 47, 11 and 10 respectively in 2012.

This represents a 54% increase in the number of new reviews and a 70% increase on the number of updated reviews in 2012.



The Cochrane Anaesthesia Review Group, Annual Report 2012

We would like to thank each and every one of the following authors who contributed to our publication success in 2013.

### *New reviews*

1. Borthwick EMJ, Hill CJ, Rabindranath KS, Maxwell AP, McAuley DF, Blackwood B. High-volume haemofiltration for sepsis. Cochrane Database of Systematic Reviews 2013, Issue 1. Art. No.: CD008075. DOI: 10.1002/14651858.CD008075.pub2
2. Scholefield B, Duncan H, Davies P, Gao Smith F, Khan K, Perkins GD, Morris K. Hypothermia for neuroprotection in children after cardiopulmonary arrest. Cochrane Database of Systematic Reviews 2013, Issue 2. Art. No.: CD009442. DOI: 10.1002/14651858.CD009442.pub2.
3. Sia AT, Tan KH, Sng BL, Lim Y, Chan ESY, Siddiqui FJ. Use of hyperbaric versus isobaric bupivacaine for spinal anaesthesia for caesarean section. Cochrane Database of Systematic Reviews 2013, Issue 5. Art. No.: CD005143. DOI: 10.1002/14651858.CD005143.pub2
4. Rose L, Schultz MJ, Cardwell CR, Jouvet P, McAuley DF, Blackwood B. Automated versus non-automated weaning for reducing the duration of mechanical ventilation for critically ill adults and children. Cochrane Database of Systematic Reviews 2013, Issue 6. Art. No.: CD009235. DOI: 10.1002/14651858.CD009235.pub2
5. Lai NM, Chaiyakunapruk N, Lai NA, O'Riordan E, Pau WSC, Saint S. Catheter impregnation, coating or bonding for reducing central venous catheter-related infections in adults. Cochrane Database of Systematic Reviews 2013, Issue 6. Art. No.: CD007878. DOI: 10.1002/14651858.CD007878.pub2
6. Boonmak S, Boonmak P, Laopaiboon M. Deliberate hypotension with propofol under anaesthesia for functional endoscopic sinus surgery (FESS). Cochrane Database of Systematic Reviews 2013, Issue 6. Art. No.: CD006623. DOI: 10.1002/14651858.CD006623.pub2
7. Svircevic V, Passier MM, Nierich AP, van Dijk D, Kalkman CJ, van der Heijden GJ. Epidural analgesia for cardiac surgery. Cochrane Database of Systematic Reviews 2013, Issue 6. Art. No.: CD006715. DOI: 10.1002/14651858.CD006715.pub2

8. Santa Cruz R, Rojas JI, Nervi R, Heredia R, Ciapponi A. High versus low positive end-expiratory pressure (PEEP) levels for mechanically ventilated adult patients with acute lung injury and acute respiratory distress syndrome. *Cochrane Database of Systematic Reviews* 2013, Issue 6. Art. No.: CD009098. DOI: 10.1002/14651858.CD009098.pub2
9. Holland A, Smith F, Penny K, McCrossan G, Veitch L, Nicholson C. Metered dose inhalers versus nebulizers for aerosol bronchodilator delivery for adult patients receiving mechanical ventilation in critical care units. *Cochrane Database of Systematic Reviews* 2013, Issue 6. Art. No.: CD008863. DOI: 10.1002/14651858.CD008863.pub2
10. Bradt J, Dileo C, Shim M. Music interventions for preoperative anxiety. *Cochrane Database of Systematic Reviews* 2013, Issue 6. Art. No.: CD006908. DOI: 10.1002/14651858.CD006908.pub2
11. Chatmongkolchart S, Prathep S. Supplemental oxygen for caesarean section during regional anaesthesia. *Cochrane Database of Systematic Reviews* 2013, Issue 6. Art. No.: CD006161. DOI: 10.1002/14651858.CD006161.pub2
12. Sanders RD, Nicholson A, Lewis SR, Smith AF, Alderson P. Perioperative statin therapy for improving outcomes during and after noncardiac vascular surgery. *Cochrane Database of Systematic Reviews* 2013, Issue 7. Art. No.: CD009971. DOI: 10.1002/14651858.CD009971.pub2
13. Khan FA, Ullah H. Pharmacological agents for preventing morbidity associated with the haemodynamic response to tracheal intubation. *Cochrane Database of Systematic Reviews* 2013, Issue 7. Art. No.: CD004087. DOI: 10.1002/14651858.CD004087.pub2
14. Blackwood B, Murray M, Chisakuta A, Cardwell CR, O'Halloran P. Protocolized versus non-protocolized weaning for reducing the duration of invasive mechanical ventilation in critically ill paediatric patients. *Cochrane Database of Systematic Reviews* 2013, Issue 7. Art. No.: CD009082. DOI: 10.1002/14651858.CD009082.pub2.
15. Wikkelsø A, Lunde J, Johansen M, Stensballe J, Wetterslev J, Møller AM, Afshari A. Fibrinogen concentrate in bleeding patients. *Cochrane Database of Systematic Reviews* 2013, Issue 8. Art. No.: CD008864. DOI: 10.1002/14651858.CD008864.pub2
16. Nicholson A, Cook TM, Smith AF, Lewis SR, Reed SS. Supraglottic airway devices versus tracheal intubation for airway management during general anaesthesia in obese patients. *Cochrane Database of Systematic Reviews* 2013, Issue 9. Art. No.: CD010105. DOI: 10.1002/14651858.CD010105.pub2
17. Nicholson A, Coldwell CH, Lewis SR, Smith AF. Nurse-led versus doctor-led preoperative assessment for elective surgical patients requiring regional or general anaesthesia. *Cochrane Database of Systematic Reviews* 2013, Issue 11. Art. No.: CD010160. DOI: 10.1002/14651858.CD010160.pub2

### **Updated reviews**

1. Petrucci N, De Feo C. Lung protective ventilation strategy for the acute respiratory distress syndrome. *Cochrane Database of Systematic Reviews* 2013, Issue 2. Art. No.: CD003844. DOI: 10.1002/14651858.CD003844.pub4
2. Kaushal A, McDonnell CG, Davies MW. Partial liquid ventilation for the prevention of mortality and morbidity in paediatric acute lung injury and acute respiratory distress syndrome. *Cochrane Database of Systematic Reviews* 2013, Issue 2. Art. No.: CD003845. DOI: 10.1002/14651858.CD003845.pub3.
3. Sud S, Sud M, Friedrich JO, Wunsch H, Meade MO, Ferguson ND, Adhikari NKJ. High-frequency ventilation versus conventional ventilation for treatment of acute lung injury and acute respiratory distress syndrome. *Cochrane Database of Systematic Reviews* 2013, Issue 2. Art. No.: CD004085. DOI: 10.1002/14651858.CD004085.pub3  
New protocols



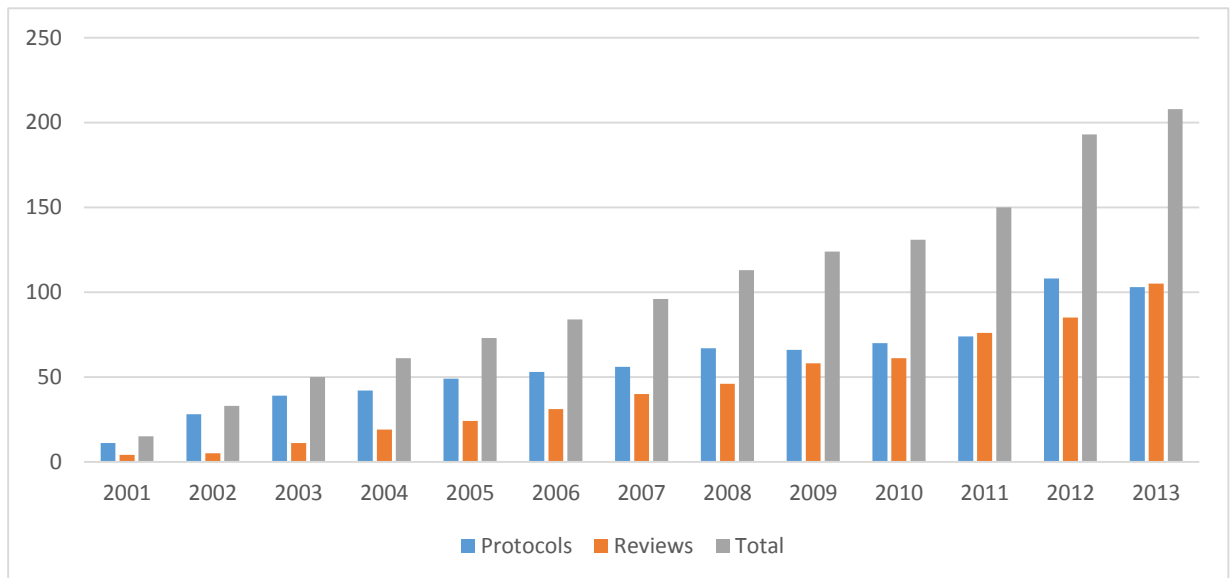
4. Nicholson A, Smith AF, Lewis SR, Cook TM. Tracheal intubation with a flexible intubation scope versus other intubation techniques for obese patients requiring general anaesthesia. *Cochrane Database of Systematic Reviews* 2014, Issue 1. Art. No.: CD010320. DOI: 10.1002/14651858.CD010320.pub2.
5. Rajaram SS, Desai NK, Kalra A, Gajera M, Cavanaugh SK, Brampton W, Young D, Harvey S, Rowan K. Pulmonary artery catheters for adult patients in intensive care. *Cochrane Database of Systematic Reviews* 2013, Issue 2. Art. No.: CD003408. DOI: 10.1002/14651858.CD003408.pub3
6. Silva BNG, Andriolo RB, Atallah AN, Salomão R. De-escalation of antimicrobial treatment for adults with sepsis, severe sepsis or septic shock. *Cochrane Database of Systematic Reviews* 2013, Issue 3. Art. No.: CD007934. DOI: 10.1002/14651858.CD007934.pub3.
7. Módolo NSP, Módolo MP, Marton MA, Volpato E, Monteiro Arantes V, do Nascimento Junior P, El Dib R. Intravenous versus inhalation anaesthesia for one-lung ventilation. *Cochrane Database of Systematic Reviews* 2013, Issue 7. Art. No.: CD006313. DOI: 10.1002/14651858.CD006313.pub3
8. Barbosa FT, Jucá MJ, Castro AA, Cavalcante JC. Neuraxial anaesthesia for lower-limb revascularization. *Cochrane Database of Systematic Reviews* 2013, Issue 7. Art. No.: CD007083. DOI: 10.1002/14651858.CD007083.pub3
9. Lewis SR, Nicholson A, Cardwell ME, Siviter G, Smith AF. Nonsteroidal anti-inflammatory drugs and perioperative bleeding in paediatric tonsillectomy. *Cochrane Database of Systematic Reviews* 2013, Issue 7. Art. No.: CD003591. DOI: 10.1002/14651858.CD003591.pub3
10. Galvin IM, Steel A, Pinto R, Ferguson ND, Davies MW. Partial liquid ventilation for preventing death and morbidity in adults with acute lung injury and acute respiratory distress syndrome. *Cochrane Database of Systematic Reviews* 2013, Issue 7. Art. No.: CD003707. DOI: 10.1002/14651858.CD003707.pub3
11. Chin KJ, Alakkad H, Cubillos JE. Single, double or multiple-injection techniques for non-ultrasound guided axillary brachial plexus block in adults undergoing surgery of the lower arm. *Cochrane Database of Systematic Reviews* 2013, Issue 8. Art. No.: CD003842. DOI: 10.1002/14651858.CD003842.pub4
12. Zacharias M, Mugawar M, Herbison GP, Walker RJ, Hovhannisyan K, Sivalingam P, Conlon NP. Interventions for protecting renal function in the perioperative period. *Cochrane Database of Systematic Reviews* 2013, Issue 9. Art. No.: CD003590. DOI: 10.1002/14651858.CD003590.pub4
13. Brammar A, Nicholson A, Trivella M, Smith AF. Perioperative fluid volume optimization following proximal femoral fracture. *Cochrane Database of Systematic Reviews* 2013, Issue 9. Art. No.: CD003004. DOI: 10.1002/14651858.CD003004.pub3
14. Alejandria MM, Lansang MAD, Dans LF, Mantaring III JB. Intravenous immunoglobulin for treating sepsis, severe sepsis and septic shock. *Cochrane Database of Systematic Reviews* 2013, Issue 9. Art. No.: CD001090. DOI: 10.1002/14651858.CD001090.pub2
15. Ullman AJ, Cooke ML, Gillies D, Marsh NM, Daud A, McGrail MR, O'Riordan E, Rickard CM. Optimal timing for intravascular administration set replacement. *Cochrane Database of Systematic Reviews* 2013, Issue 9. Art. No.: CD003588. DOI: 10.1002/14651858.CD003588.pub3
16. Tangsirawatthana T, Sangkomkamhang US, Lumbiganon P, Laopaiboon M. Paracervical local anaesthesia for cervical dilatation and uterine intervention. *Cochrane Database of Systematic Reviews* 2013, Issue 9. Art. No.: CD005056. DOI: 10.1002/14651858.CD005056.pub3
17. Burns KEA, Meade MO, Premji A, Adhikari NKJ. Noninvasive positive-pressure ventilation as a weaning strategy for intubated adults with respiratory failure. *Cochrane Database of*



## *New protocols*

1. Nicholson A, Smith AF, Lewis SR, Cook TM. Tracheal intubation with a flexible intubation scope versus other intubation techniques for obese patients requiring general anaesthesia. Cochrane Database of Systematic Reviews 2014, Issue 1. Art. No.: CD010320. DOI: 10.1002/14651858.CD010320.pub2
2. Tramm R, Ilic D, Davies AR, Pellegrino VA, Hodgson C. Extracorporeal membrane oxygenation for critically ill adults (Protocol). Cochrane Database of Systematic Reviews 2013, Issue 2. Art. No.: CD010381. DOI: 10.1002/14651858.CD010381
3. Módolo NSP, Módolo MP, Marton MA, Braz LG, Alves RL, El Dib RP. Intravenous versus inhalation anaesthesia for patients undergoing on-pump or off-pump coronary artery bypass grafting (Protocol). Cochrane Database of Systematic Reviews 2013, Issue 2. Art. No.: CD010345. DOI: 10.1002/14651858.CD010345
4. Jessen Lundorf L, Korvenius Jørgensen H, Møller AM. Perioperative dexmedetomidine for acute pain after abdominal surgery in adults (Protocol). Cochrane Database of Systematic Reviews 2013, Issue 2. Art. No.: CD010358. DOI: 10.1002/14651858.CD010358
5. Lewis SR, Nicholson A, Smith AF. Physician anaesthetists versus non-physician providers of anaesthesia for surgical patients (Protocol). Cochrane Database of Systematic Reviews 2013, Issue 2. Art. No.: CD010357. DOI: 10.1002/14651858.CD010357
6. Katsura M, Kuriyama A, Takeshima T, Fukuhara S, Furukawa TA. Preoperative inspiratory muscle training for postoperative pulmonary complications in adult patients undergoing cardiac and major abdominal surgery (Protocol). Cochrane Database of Systematic Reviews 2013, Issue 2. Art. No.: CD010356. DOI: 10.1002/14651858.CD010356
7. Quintana ARG, Atallah ÁN, Saconato H, Wale JL, Melnik T. Respiratory therapy for removing bronchial secretions in mechanically ventilated adult patients (Protocol). Cochrane Database of Systematic Reviews 2013, Issue 2. Art. No.: CD010317. DOI: 10.1002/14651858.CD010317
8. Rüschen H, Adams L, Bunce C. Use of hyaluronidase as an adjunct to local anaesthetic eye blocks (Protocol). Cochrane Database of Systematic Reviews 2013, Issue 2. Art. No.: CD010368. DOI: 10.1002/14651858.CD010368
9. Kettner SC, Hahn R, Gessl A, Herkner H. Blood glucose target levels for critically ill adult patients (Protocol). Cochrane Database of Systematic Reviews 2013, Issue 3. Art. No.: CD005366. DOI: 10.1002/14651858.CD005366.pub2
10. Yeoh ECY, Salicath JH, Bennett MH. Patient controlled intravenous analgesia versus epidural analgesia for pain following intra-abdominal surgery (Protocol). Cochrane Database of Systematic Reviews 2013, Issue 3. Art. No.: CD010434. DOI: 10.1002/14651858.CD010434
11. Ullman AJ, Aitken LM, Rattray J, Kenardy J, Le Brocq R, MacGillivray S, Hull AM. Diaries for recovery from critical illness (Protocol). Cochrane Database of Systematic Reviews 2013, Issue 4. Art. No.: CD010468. DOI: 10.1002/14651858.CD010468
12. Singh GP, Prabhakar H, Kalaivani M, Anand V. Inhalation versus intravenous technique for rapid emergence from anaesthesia in patients undergoing brain tumour surgery (Protocol). Cochrane Database of Systematic Reviews 2013, Issue 4. Art. No.: CD010467. DOI: 10.1002/14651858.CD010467
13. Ashby M, Haug G, Mulcahy P, Ogden KJ, Jensen O. Conservative versus interventional management for primary spontaneous pneumothorax in adults (Protocol). Cochrane Database of Systematic Reviews 2013, Issue 6. Art. No.: CD010565. DOI: 10.1002/14651858.CD010565

14. Zheng H, Guo H, Sun LS, Ye JR, Chen L, Wang HC, Yang YN. Goal-directed fluid management for reduction of gastrointestinal complications in adults undergoing major abdominal surgery (Protocol). *Cochrane Database of Systematic Reviews* 2013, Issue 6. Art. No.: CD010616. DOI: 10.1002/14651858.CD010616
15. Arrich J, Havel C, Holzer M, Herkner H. Prehospital versus in-hospital initiation of mild therapeutic hypothermia for survival and neuroprotection after out-of-hospital cardiac arrest (Protocol). *Cochrane Database of Systematic Reviews* 2013, Issue 6. Art. No.: CD010570. DOI: 10.1002/14651858.CD010570
16. Johansen M, Wikkelsø A, Lunde J, Wetterslev J, Afshari A. Prothrombin complex concentrate for perioperative reversal of vitamin K antagonist treatment in bleeding and non-bleeding patients requiring acute surgical intervention (Protocol). *Cochrane Database of Systematic Reviews* 2013, Issue 6. Art. No.: CD010555. DOI: 10.1002/14651858.CD010555
17. Prabhakar H, Rath S, Kalaivani M. Adrenaline with lidocaine for digital nerve blocks (Protocol). *Cochrane Database of Systematic Reviews* 2013, Issue 7. Art. No.: CD010645. DOI: 10.1002/14651858.CD010645.
18. Li D, Li X, Cui W, Shen H, Zhu H, Xia Y. Conservative versus liberal fluid therapy for initial severe sepsis and septic shock (Protocol). *Cochrane Database of Systematic Reviews* 2013, Issue 7. Art. No.: CD010593. DOI: 10.1002/14651858.CD010593
19. Wall BF, Magee K, Campbell SG, Zed PJ. Capnography versus standard monitoring for emergency department procedural sedation and analgesia (Protocol). *Cochrane Database of Systematic Reviews* 2013, Issue 8. Art. No.: CD010698. DOI: 10.1002/14651858.CD010698
20. Zhao N, Xu J, Singh B, Wu T, Yu X. Nitrates for the prevention of cardiac morbidity and mortality in patients undergoing non-cardiac surgery (Protocol). *Cochrane Database of Systematic Reviews* 2013, Issue 8. Art. No.: CD010726. DOI: 10.1002/14651858.CD010726
21. Doiron KA, Hoffmann T, Beller EM. Early intervention (mobilization or active exercise) for critically ill patients in the intensive care unit (Protocol). *Cochrane Database of Systematic Reviews* 2013, Issue 10. Art. No.: CD010754. DOI: 10.1002/14651858.CD010754
22. Arevalo-Rodriguez I, Muñoz L, Arevalo JJ, Ciapponi A, Roqué i Figuls M. Needle gauge and tip designs for preventing post-dural puncture headache (PDPH) (Protocol). *Cochrane Database of Systematic Reviews* 2013, Issue 10. Art. No.: CD010807. DOI: 10.1002/14651858.CD010807
23. Reed SS, Lewis SR, Nicholson A, Alderson P, Smith AF. Anaesthetic and sedative agents used for electrical cardioversion (Protocol). *Cochrane Database of Systematic Reviews* 2013, Issue 11. Art. No.: CD010824. DOI: 10.1002/14651858.CD010824
24. Byrne AL, Bennett MH, Pace NL, Thomas P. Peripheral venous blood gas analysis versus arterial blood gas analysis for the diagnosis of respiratory failure and metabolic disturbance in adults (Protocol). *Cochrane Database of Systematic Reviews* 2013, Issue 11. Art. No.: CD010841. DOI: 10.1002/14651858.CD010841
25. Shailaja S, Ray A, Ray S, Kirubakaran R. Dexmedetomidine for procedural sedation in children (Protocol). *Cochrane Database of Systematic Reviews* 2013, Issue 12. Art. No.: CD010886. DOI: 10.1002/14651858.CD010886



The Cochrane Anaesthesia Review Group's publication in *The Cochrane Library* 2000 to 2013  
 Source: *The Cochrane Information Management System*

## Peer reviewers

We would like to thank all the peer reviewers who have contributed to the CARG peer review process.

In particular we would like to thank the following peer reviewers, from all over the world, who contributed to the editorial process of a protocol or review published in 2013:

**Australia:** Nai An Lai, Sue Berney, Linda Denehy, Simon Finfer, Donna Gillies, Carol Hodgson, Anne-Maree Kelly, Peter Kruger, Paul Lambert, Megan Prictor, Andreas Schibler, Stephan Schug, Angela C Webster, Teresa Williams

**Austria:** Jasmin Arrich, Bitia Mesgarpour

**Belgium:** Stefan De Hert, Rik Gosselink, Laszlo L Szegedi, Greet Van den Berghe

**Brazil:** Andrezza L Bezerra, Andrezza Lemos

**Canada:** Neill Adhikari, Mazen Bader, Don Griesdale, Joanne Guay, Stephen Halpern, Don Lalonde, Yannick Le Manach, Louise Rose

**Denmark:** Arash Afshari, Ingrid Egerod, Ole Halfdan Larsen, Martin Kryspin Sørensen

**France:** Bernard Allaouchiche, Djillali Annane, Francis Bonnet, Alain Combes, Claude Guerin, Francis Leclerc, Jacques Ripart

**Germany:** Leopold Eberhart

**Hong Kong:** Su Cheung Yu

**India:** Preethy J Mathew

**Italy:** Federico Bilotta, Giancarlo M Liembruno, Paolo Pelosi, Maurizio Solca, Giovanni FM Strippoli

**Iran:** Afshin Gholipour Baradari

**Ireland:** Stephen Frohlich, Ronan O'Sullivan

**Israel:** Tomer Avni

**Japan:** Mina Nishimori

**Netherlands:** Johan Groeneveld, Wilton A van Klei, Vera Meeusen

**New Zealand:** Aidan O'Donnell, Suetonia C Palmer, Felix SF Ram, David Sidebotham, Jamie Sleigh, Hansjoerg Waibel

**Nigeria:** Mahmoud B Alhassan

**Norway:** Kjetil Sunde

**Singapore:** Lim Beng Leong

**Switzerland:** Luzius Hildebrand

**Thailand:** Polpun Boonmak

**UK:** R Peter Alston, Bronagh Blackwood, Michael Davies, Charles D Deakin, David Earl, James W Fairley, Ben Gibbison, Fang Gao Smith, Laura Green, Sue Harding, Jane E Jackson, Andrew T Jones, David Keeling, Andrew MacDuff, Michael Makris, Andrew Moore, Shafi Mussa, Monty Mythen, Richard L Nelson, Marlies Ostermann, Jaideep J Pandit, Giles Peek, Anil Patel, Helen E Rushforth, Jasmeet Soar, Gerry Stansby, Vaughan Thomas, Richard Wormald

**USA:** Clarence J Biddle, Clifton Callaway, Rodrigo Cavallazzi, Saeed Chowdhry, Heidi Dalton, Marjolein de Wit, Eddy Fan, TJ Gan, Claire Ghetti, David T Huang, Baruch Krauss, Ewan D McNicol, Paul E Marik, Mark D Neuman, Kristin B. Miller, Michael Nurok, Tom Overend, Anuradha Patel, Nasia Safdar, Steven A Sahn, Fred J Schwartz, Alexis A Topjian, Hannah Wunsch

## Impact Factor for 2013

Note that the 2012 impact factors are actually published in 2013; they cannot be calculated until all of the 2012 publications have been processed by the indexing agency. Similarly, Wiley are able to inform us in 2013 which of our 2012 publications were most assessed or cited.

The 2012 CRG impact factor for the Anaesthesia Group is **4.619** (21 publications cited 97 times). A review published by the Anaesthesia Group in 2010 or 2011 was cited, on average, 4.619 times in 2012.

### *The top ten most cited reviews from the Anaesthesia Group contributing to the 2012 impact factor*

CD Number	Review Title	Times cited in 2011
CD007871	Thrombelastography (TEG) or thromboelastometry (ROTEM) to monitor haemotherapy versus usual care in patients with massive transfusion	25
CD004388	Human recombinant activated protein C for severe sepsis	18

CD004127	Noninvasive positive pressure ventilation as a weaning strategy for intubated adults with respiratory failure	10
CD006904	Protocolized versus non-protocolized weaning for reducing the duration of mechanical ventilation in critically ill adult patients	7
CD007596	Glucocorticoids for the treatment of anaphylaxis	6
CD007733	Aerosolized prostacyclin for acute lung injury (ALI) and acute respiratory distress syndrome (ARDS)	5
CD002787	Inhaled nitric oxide for acute respiratory distress syndrome (ARDS) and acute lung injury in children and adults	4
CD003709	Vasopressors for hypotensive shock	4
CD006581	Adjusting the pH of lidocaine for reducing pain on injection	3
CD007922	Positive end-expiratory pressure (PEEP) during anaesthesia for the prevention of mortality and postoperative pulmonary complications	3

### ***The top ten most accessed reviews from the Anaesthesia Group***

Reviews published by the Anaesthesia Group were accessed in full-text format on average 671.28 times during 2012 (99 articles accessed 66,457 times). This is a slight increase of 2% on the 2011 figure of 655.61 (79 articles accessed 51,793 times). Rather than academic citations this is the number of times someone physically goes into *The Cochrane Library* and reads or downloads a copy of a review by the Anaesthesia Group.

<b>CD Number</b>	<b>Review Title</b>	<b>Full Text Accesses</b>
CD004128	Hypothermia for neuroprotection in adults after cardiopulmonary resuscitation	4,223
CD004125	Drugs for preventing postoperative nausea and vomiting	2,389
CD006058	Incentive spirometry for prevention of postoperative pulmonary complications in upper abdominal surgery	2,123
CD003709	Vasopressors for hypotensive shock	2,058
CD003281	Stimulation of the wrist acupuncture point P6 for preventing postoperative nausea and vomiting	1,687
CD004388	Human recombinant protein C for severe sepsis and septic shock in adult and paediatric patients	1,599
CD004084	Central venous access sites for the prevention of venous thrombosis, stenosis and infection	1,561
CD004581	Closed tracheal suction systems versus open tracheal suction systems for mechanically ventilated adult patients	1,492
CD007598	Aromatherapy for treatment of postoperative nausea and vomiting	1,377
CD006904	Protocolized versus non-protocolized weaning for reducing the duration of mechanical ventilation in critically ill adult patients	1,347

## The different review types registered by CARG

The majority of our reviews are intervention reviews. However, we also have three Diagnostic Test Accuracy (DTA) published protocols; and one registered DTA title as well as many expressions of interest. We have one published qualitative protocol: *Factors that impact on the use of mechanical ventilation weaning protocols in critically ill adults and children: a qualitative evidence-synthesis*. We have one published overview protocol: *Neuraxial blockade for the prevention of postoperative mortality and major morbidity: an overview of Cochrane systematic reviews*. Editors and authors of CARG are honoured to have been chosen to create an exemplar prognostic review entitled *Prediction models for the risk of postoperative nausea and vomiting*.

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

The University Hospitals of Morecambe Bay NHS Trust (UHMB) UK have been awarded a National Institute for Health Research (NIHR) and Cochrane Collaboration Programme Grant, to produce reviews that enhance the safety, quality and productivity of perioperative care. The team is based in Lancaster, UK and led by Prof Andrew Smith (CARG editor and Director, Lancaster Patient Safety Research Unit). CARG provides editorial support for these reviews.

In 2013, the NIHR/Cochrane team published three new reviews, updated three reviews and published a further three new protocols.

The new NIHR/Cochrane published reviews are:

- Sanders RD, Nicholson A, Lewis SR, Smith AF, Alderson P. Perioperative statin therapy for improving outcomes during and after noncardiac vascular surgery. Cochrane Database of Systematic Reviews 2013, Issue 7. Art. No.: CD009971. DOI: 10.1002/14651858.CD009971.pub2
- Nicholson A, Cook TM, Smith AF, Lewis SR, Reed SS. Supraglottic airway devices versus tracheal intubation for airway management during general anaesthesia in obese patients. Cochrane Database of Systematic Reviews 2013, Issue 9. Art. No.: CD010105. DOI: 10.1002/14651858.CD010105.pub2
- Nicholson A, Coldwell CH, Lewis SR, Smith AF. Nurse-led versus doctor-led preoperative assessment for elective surgical patients requiring regional or general anaesthesia. Cochrane Database of Systematic Reviews 2013, Issue 11. Art. No.: CD010160. DOI: 10.1002/14651858.CD010160.pub2

The new NIHR/Cochrane published updates are:

- Nicholson A, Smith AF, Lewis SR, Cook TM. Tracheal intubation with a flexible intubation scope versus other intubation techniques for obese patients requiring general anaesthesia. Cochrane Database of Systematic Reviews 2014, Issue 1. Art. No.: CD010320. DOI: 10.1002/14651858.CD010320.pub2.

- Lewis SR, Nicholson A, Cardwell ME, Siviter G, Smith AF. Nonsteroidal anti-inflammatory drugs and perioperative bleeding in paediatric tonsillectomy. Cochrane Database of Systematic Reviews 2013, Issue 7. Art. No.: CD003591. DOI: 10.1002/14651858.CD003591.pub3
- Brammar A, Nicholson A, Trivella M, Smith AF. Perioperative fluid volume optimization following proximal femoral fracture. Cochrane Database of Systematic Reviews 2013, Issue 9. Art. No.: CD003004. DOI: 10.1002/14651858.CD003004.pub3

And the new NIHR/Cochrane published protocols are:

- Nicholson A, Smith AF, Lewis SR, Cook TM. Tracheal intubation with a flexible intubation scope versus other intubation techniques for obese patients requiring general anaesthesia. Cochrane Database of Systematic Reviews 2014, Issue 1. Art. No.: CD010320. DOI: 10.1002/14651858.CD010320.pub2
- Lewis SR, Nicholson A, Smith AF. Physician anaesthetists versus non-physician providers of anaesthesia for surgical patients (Protocol). Cochrane Database of Systematic Reviews 2013, Issue 2. Art. No.: CD010357. DOI: 10.1002/14651858.CD010357
- Reed SS, Lewis SR, Nicholson A, Alderson P, Smith AF. Anaesthetic and sedative agents used for electrical cardioversion (Protocol). Cochrane Database of Systematic Reviews 2013, Issue 11. Art. No.: CD010824. DOI: 10.1002/14651858.CD010824

## MECIR

Doing a systematic review is a complex process and the Cochrane Collaboration fosters high standards in their production. To this end, the Methodological Expectations of Cochrane Intervention Reviews (MECIR) project aimed to specify methodological expectations for Cochrane Protocols, Reviews, and updates of reviews on the effects of interventions, and to ensure that these methodological expectations are supported and implemented across The Cochrane Collaboration. They provide authors and users of The Cochrane Library with clear and transparent expectations of review conduct and reporting. These have been published and are available as a booklet (<http://www.editorial-unit.cochrane.org/mecir>) and as a poster. CARG editors reviewed the MECIR standards at the editorial meeting and have accepted them as a CARG standard. All CARG authors are expected to follow those standards.

## Cochrane Editorial Unit (CEU) pre-publication screening of new Cochrane systematic reviews of interventions

A team of editors based at the CEU commenced screening of all new Cochrane intervention reviews from September 2013. The team will screen reviews after they have been signed off by the Cochrane Review Groups (CRGs). The aim of the screening process is to ensure that published new Cochrane Reviews meet critical quality criteria.



## How we contribute to Cochrane

We increased awareness and participation of Cochrane by representing CARG in the following ways:

### *Cochrane Executives*

*Nathan Pace* is a member of the Coordinating Editors Executive.

*Jane Cracknell* is a member of the Managing Editors Executive

*Karen Hovhannisyan* is a member of the Trials Search Coordinator Executive

### *Other Cochrane Roles*

*Nathan Pace* is a member of MARS (Methods Applications and Review Standards Working Group). He is also a member of the Workshops Committee for the 2013 Colloquium in Quebec, Canada.

*Jane Cracknell* is a member of the Cochrane 20th Anniversary Task force and co-convenor of Meetings and Conferences. She is also a member of the Monitoring and Registration Committee.

*Karen Hovhannisyan* is a member of Cochrane Archie Development Advisory Committee.

### *Conferences and Meetings*

- Ann Møller, Jane Cracknell and Nathan Pace attended the Cochrane Mid-year Meeting in Oxford, UK (March 2013)
- Jane Cracknell, Karen Hovhannisyan, Ann Møller and Nathan Pace attended the 21st Cochrane Colloquium Quebec (September 2013)

## CARG Publications

### *Cochrane Anaesthesia News*

#### **We published the following articles in 2013**

- A. F. Smith; J. Cracknell; A. M. Moller; N. L. Pace. The Cochrane Collaboration and its worldwide contributions to anaesthesia research and care British Journal of Anaesthesia 2013 111: 523-5
- Carlisle J, Cracknell J, Møller A, Pace N, Pedersen T, Zacharias M. What should the Cochrane Collaboration do about research that is, or might be, fraudulent? [editorial]. Cochrane Database of Systematic Reviews 2013;5:ED000060. [dx.doi.org/10.1002/14651858.ED000060](https://doi.org/10.1002/14651858.ED000060)

## **CARG website**

The new CARG website was launched in February 2006. Since 2010 CARG has used the Cochrane Collaboration's new website builder based on the Drupal platform. The website is updated periodically.

The website [www.carg.cochrane.org](http://www.carg.cochrane.org) contains information about:

- The CARG editors and CARG editorial office
- The CARG activities
- CARG policies
- The scope of the CARG
- The topics addressed by the CARG
- The reviews, protocols and titles supported by the CARG
- The CARG membership
- Writing a systematic review (resources for Review Authors)
- Other information about the CARG, including Cochrane Anaesthesia News
- The Cochrane Collaboration and anaesthesia-related entities, through Web links as well as CARG publications
- Introduction to consumers and handsearchers

## **TSC workload**

Although the number of our publications is growing, our resources are limited. CARG only has 1.5 staff and a large number of review teams (over 250). Sadly we do not have the resources to offer unlimited TSC support to all authors. It has been decided that from 2014 and onwards all authors seeking TSC help must contact our TSC help specifying what that help is and in the case of papers whether they have gone through the steps below and meet the criteria. From now onwards the TSC will only:

- Support the authors with developing their own searches
- Run searches and send the full text results of those searches back to the authors only for the major databases such as MEDLINE, EMBASE and CENTRAL and only the databases that the authors do not have access to.
- Offer very limited support in finding papers or finding the volunteers to extract the data from them. Please be aware that help finding papers will only be offered to developing country authors.

Those authors must first:

1. Check the list of abstracts sent to them;
2. Check that the studies are relevant to their title;

3. Check that any studies of interest meet their inclusion criteria and finally;
4. Check that the papers are not available online (by searching PubMed, Google and the relevant journal) or through their local libraries.

## Specialized Register (SR-ANAESTH)

The CARG maintains a register of more than 36,000 RCTs and CCTs related to: anaesthesia, perioperative medicine, intensive care medicine, pre-hospital medicine, resuscitation and emergency medicine. The register is maintained on Cochrane CRS software, and searches for trials are performed quarterly. Trials included in the register are tagged SR-ANAESTH, and the tag term may be searched in the Cochrane Library. The register has now been submitted to CENTRAL. Access to the register is available to authors and other members of the CARG.

## Handsearching

Members of the CARG are actively involved in handsearching anaesthesia journals in order to identify RCTs and CCTs for inclusion in systematic reviews and Specialized Register. We are looking for new handsearchers to help us increase our handsearch activities.

## Consumer representation in CARG reviews

We have an active consumer panel consisting of: Suzanne Cunliffe, Ann Fonfa, Clare Jeffrey, Tracey Lloyd, Anne Lyddiatt, Jenny Pace, Patricia Tong, Janet Wale (consumer editor), Durhane Wong-Rieger and Robert Wyllie.

Each Cochrane review contains a plain language summary (PLS). The PLS are now stand-alone documents and will be published in PubMed Health, a service from the US National Library of Medicine (NLM) aimed at the public. This has the potential to greatly increase the number of people reading the PLS and also clicking through to the abstracts and full-text reviews. It is important therefore that the PLS is consistent with the review and readable. We have, therefore, asked our group of consumers to concentrate on helping us improve the quality of CARG's PLS. Plain Language Expectations for Authors of Cochrane Summaries (PLEACS) have been established by a special working group comprised of consumers, methodologists and editors. In September 2013, this group developed a set of standards for the reporting of Plain language summaries in new Cochrane Intervention Reviews. These standards can be obtained from <http://www.editorial-unit.cochrane.org/sites/editorial-unit.cochrane.org/files/uploads/PLSBooklet2.pdf>

All CARG authors are sent a copy of the booklet and asked to make sure that their PLS is consistent with the standards. The PLS is then checked by a member of the CARG consumer panel.

We would welcome more new consumers to help us improve our plain language summaries.

## We achieved the following goals in 2013

- Aim: to publish 15 reviews and 20 protocols. In fact we published 17 new review, 17 updated reviews and 25 new protocols

## Our goals for 2014

- To continuously improve the quality and the clinical relevance of CARG reviews
- To recruit a part time editorial assistant
- To recruit more statistical editors
- To publish 20 reviews and 15 protocols

## Funders

- Region Hovedstaden statsmidler
- Læge Sofus Friis Legat
- Wedellsborgs Fond
- GBS RE UNI HOSP
- UNI HOSP MB TRUST

## Budget

Budget (in Danish Kroner)	Funds
Income	1,358,000 (approximately 182,000 EUR)
Total Expenditures	1,173,000 (approximately 157,000 EUR)
Balance	185,000 (approximately 25,000 EUR)



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