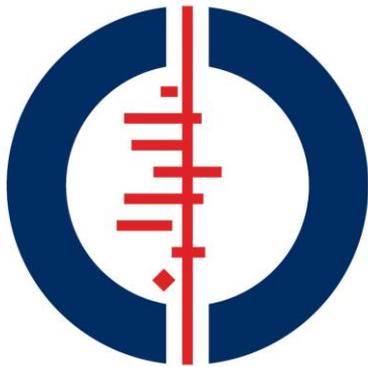


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# THE COCHRANE ANAESTHESIA REVIEW GROUP

ANNUAL REPORT 2014



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## Preface

### Welcome to the 2014 CARG annual report

In 2014 the Cochrane Anaesthesia Review Group moved to its new 'home', the Anaesthesia Research Unit at the Herlev University Hospital, the Copenhagen Region, under the management of Co-ordinating Editor, Ann Møller. Ann had been appointed Clinical Professor in Anaesthesia and Evidence Based Medicine at Herlev University Hospital. CARG will now be based in a well-established anaesthesia research Unit and increase its efforts in promoting Evidence Based Anaesthesia, Critical and Emergency Care both locally and globally.

In 2014, we also said farewell to Rigshospitalet where we were based since 2004 and Tom Pedersen, our former Co-ordinating Editor and Treasurer. We will miss him and wish him well for the future.

Workwise, this has been an exceptionally busy year for the Cochrane Anaesthesia Review Group (CARG). In 2014, we published a record number of reviews: 34 new reviews, nine updated reviews and 25 protocols. This was the largest number of reviews for any Cochrane Group in 2014 and placed many pressures on our Group. The total number of CARG reviews and protocols in The Cochrane Library as of Issue 12 2014 is 139 reviews and 104 protocols

The ever increasing workload in CARG requires us to further prioritize the reviews that we consider as important and are ready to support; our aim for 2015 is 'fewer, better reviews'. Almost daily, emails continue to reach the editorial office with expressions of interest from worldwide authors in registering titles in Anaesthesia, Critical and Emergency Care.

From 2014 we changed the way we handle title proposals. We now have to make difficult decisions as to which titles are priorities. One way we prioritize titles is to invite authors to initially submit PICO's (a description of their planned population, intervention, control, outcomes), this allows the editors to decide which title is of interest to them. We offer no guarantees that any PICO will be accepted. It is up to the CARG editors as to which are of clinical importance. PICO's are sent out to the editors for commenting on one day per month. We then decide which authors to invite to submit a title proposal form (TPF). The TPFs are sent out to the editors on one day per month. The authors are then informed whether the title is of interest to us, and, if it is, whether they need to amend their title form; or whether the proposal can be registered as it is.

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 2014. 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)**

**Karen Hovhannisyan (Trials Search Co-ordinator)**

**Monika Afzali (Editorial Assistant)**

*Copenhagen, February 2015*

## The Cochrane Anaesthesia Review Group (CARG)

CARG conducts systematic reviews of randomized 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, the Cochrane Wounds 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 Herlev Hospital, Herlev, Denmark.

**Ann M. Møller, MD, DMSc, 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, MPH**  
Trials Search Co-ordinator

**Monika Afzali, BMSc**  
Editorial Assistant

## CARG Editors

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

### Hello



We welcomed a new statistical editor Vibeke Horstmann. Vibeke was born in Odense, Denmark, and moved to Sweden in 1973. Her education contains mostly of mathematics and statistics, and some physics and economics. She worked for many years as a teacher, mostly at the statistical department, Lund University, and has since then been engaged as a statistical consultant in various projects. At the moment she is employed at the faculty of medicine at Lund University. Her main interests in statistics have been epidemiology and non-parametric methods.

We also welcomed a new Editorial Assistant to the Group: Monika Afzali. Monika is a final year medical student at Copenhagen University, Denmark. Monika has a keen interest in anaesthesiology and especially pre hospital medicine. She is a board member of the Student’s Society of Anaesthesiology and Traumatology (SATS) in Copenhagen.



### Goodbye

We bid fond farewells to:

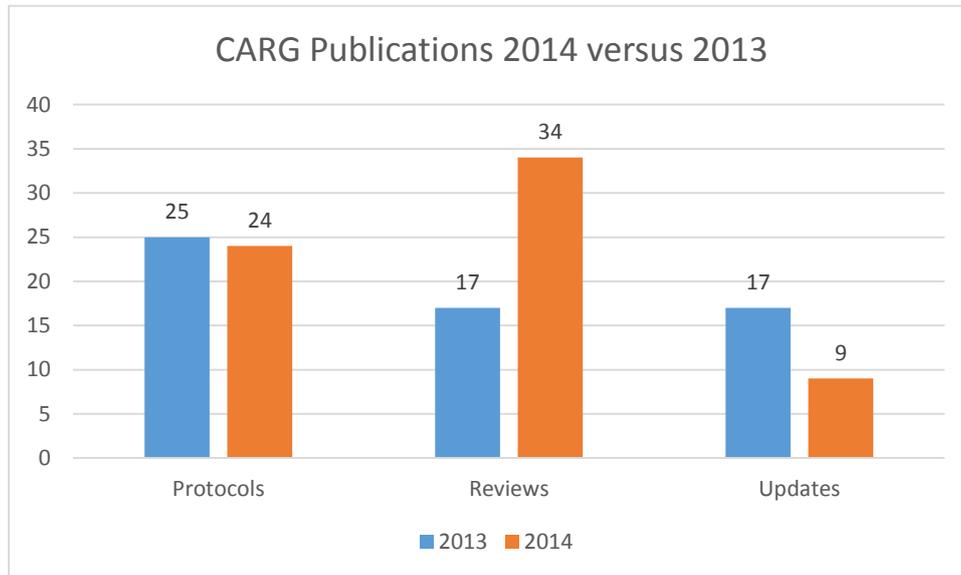
Tom Pedersen (Co-ordinating Editor (from inception until 2007), member of CARG’s editorial board and our financial director (2007 to 2014) see preface), John Carlisle (Feedback Editor 2000 to 2013; Content Editor 2000 to 2014) and Christina Dahl Hansen (Editorial Assistant 2014)

## 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, 2014

We published 34 new review, 9 updated reviews and 24 protocols in 2014, compared to 17, 17 and 25 respectively in 2013. This represents a 100% increase in the number of new reviews



We would like to thank each and every one of the following authors who contributed to our publication success in 2014.

### New reviews

1. Vaughan J, Nagendran M, Cooper J, Davidson BR, Gurusamy KS. Anaesthetic regimens for day-procedure laparoscopic cholecystectomy. Cochrane Database of Systematic Reviews 2014, Issue 1. Art. No.: CD009784. DOI: 10.1002/14651858.CD009784.pub2.
2. Lambert P, Cyna AM, Knight N, Middleton P. Clonidine premedication for postoperative analgesia in children. Cochrane Database of Systematic Reviews 2014, Issue 1. Art. No.: CD009633. DOI: 10.1002/14651858.CD009633.pub2.
3. He XY, Cao JP, He Q, Shi XY. Dexmedetomidine for the management of awake fiberoptic intubation. Cochrane Database of Systematic Reviews 2014, Issue 1. Art. No.: CD009798. DOI: 10.1002/14651858.CD009798.pub2
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. Guay J, Choi P, Suresh S, Albert N, Kopp S, Pace NL. Neuraxial blockade for the prevention of postoperative mortality and major morbidity: an overview of Cochrane systematic reviews. Cochrane Database of Systematic Reviews 2014, Issue 1. Art. No. CD010108. DOI: 10.1002/14651858.CD010108.pub2
6. Burns KEA, Lellouche F, Lessard MR, Friedrich JO. Automated weaning and spontaneous breathing trial systems versus non-automated weaning strategies for discontinuation time in invasively ventilated postoperative adults. Cochrane Database of Systematic Reviews 2014, Issue 2. Art. No.: CD008639. DOI: 10.1002/14651858.CD008639.pub2

7. Ullah H, Samad K, Khan FA. Continuous interscalene brachial plexus block versus parenteral analgesia for postoperative pain relief after major shoulder surgery. *Cochrane Database of Systematic Reviews* 2014, Issue 2. Art. No.: CD007080. DOI: 10.1002/14651858.CD007080.pub2
8. Ortiz AC, Atallah ÁN, Matos D, da Silva EMK. Intravenous versus inhalational anaesthesia for paediatric outpatient surgery. *Cochrane Database of Systematic Reviews* 2014, Issue 2. Art. No.: CD009015. DOI: 10.1002/14651858.CD009015.pub2
9. Taylor T, Dineen RA, Gardiner DC, Buss CH, Howatson A, Pace NL. Computed tomography (CT) angiography for confirmation of the clinical diagnosis of brain death. *Cochrane Database of Systematic Reviews* 2014, Issue 3. Art. No.: CD009694. DOI: 10.1002/14651858.CD009694.pub2
10. Mayfield S, Jauncey-Cooke J, Hough JL, Schibler A, Gibbons K, Bogossian F. High-flow nasal cannula therapy for respiratory support in children. *Cochrane Database of Systematic Reviews* 2014, Issue 3. Art. No.: CD009850. DOI: 10.1002/14651858.CD009850.pub2.
11. Lihua P, Su M, Ke W, Ziemann-Gimmel P. Different regimens of intravenous sedatives or hypnotics for electroconvulsive therapy (ECT) in adult patients with depression. *Cochrane Database of Systematic Reviews* 2014, Issue 4. Art. No.: CD009763. DOI: 10.1002/14651858.CD009763.pub2
12. Chan EY, Fransen M, Parker DA, Assam PN, Chua N. Femoral nerve blocks for acute postoperative pain after knee replacement surgery. *Cochrane Database of Systematic Reviews* 2014, Issue 5. Art. No.: CD009941. DOI: 10.1002/14651858.CD009941.pub2
13. Robertson-Malt S, Malt GN, Farquhar V, Greer W. Heparin versus normal saline for patency of arterial lines. *Cochrane Database of Systematic Reviews* 2014, Issue 5. Art. No.: CD007364. DOI: 10.1002/14651858.CD007364.pub2
14. Yang L, Yang D, Li Q, Zuo Y, Lu D. Neostigmine for reversal of neuromuscular block in paediatric patients. *Cochrane Database of Systematic Reviews* 2014, Issue 5. Art. No.: CD010110. DOI: 10.1002/14651858.CD010110.pub2
15. Gilbert-Kawai ET, Mitchell K, Martin D, Carlisle J, Grocott MPW. Permissive hypoxaemia versus normoxaemia for mechanically ventilated critically ill patients. *Cochrane Database of Systematic Reviews* 2014, Issue 5. Art. No.: CD009931. DOI: 10.1002/14651858.CD009931.pub2
16. Ladeira MT, Vital FMR, Andriolo RB, Andriolo BNG, Atallah ÁN, Peccin MS. Pressure support versus T-tube for weaning from mechanical ventilation in adults. *Cochrane Database of Systematic Reviews* 2014, Issue 5. Art. No.: CD006056. DOI: 10.1002/14651858.CD006056.pub2
17. Strametz R, Pachler C, Kramer JF, Byhahn C, Siebenhofer A, Weberschock T. Laryngeal mask airway versus endotracheal tube for percutaneous dilatational tracheostomy in critically ill adult patients. *Cochrane Database of Systematic Reviews* 2014, Issue 6. Art. No.: CD009901. DOI: 10.1002/14651858.CD009901.pub2
18. Alderson P, Campbell G, Smith AF, Warttig S, Nicholson A, Lewis SR. Thermal insulation for preventing inadvertent perioperative hypothermia. *Cochrane Database of Systematic Reviews* 2014, Issue 6. Art. No.: CD009908. DOI: 10.1002/14651858.CD009908.pub2
19. Antibas PL, do Nascimento Junior P, Braz LG, Vitor Pereira Doles J, Módolo NSP, El Dib R. Air versus saline in the loss of resistance technique for identification of the epidural space. *Cochrane Database of Systematic Reviews* 2014, Issue 7. Art. No.: CD008938. DOI: 10.1002/14651858.CD008938.pub2
20. Burry L, Rose L, McCullagh IJ, Fergusson DA, Ferguson ND, Mehta S. Daily sedation interruption versus no daily sedation interruption for critically ill adult patients requiring invasive mechanical ventilation. *Cochrane Database of Systematic Reviews* 2014, Issue 7. Art. No.: CD009176. DOI: 10.1002/14651858.CD009176.pub2
21. Prabhakar H, Singh GP, Anand V, Kalaivani M. Mannitol versus hypertonic saline for brain relaxation in patients undergoing craniotomy. *Cochrane Database of Systematic Reviews* 2014, Issue 7. Art. No.: CD010026. DOI: 10.1002/14651858.CD010026.pub2

22. Lewis SR, Nicholson A, Smith AF, Alderson P. Physician anaesthetists versus non-physician providers of anaesthesia for surgical patients. *Cochrane Database of Systematic Reviews* 2014, Issue 7. Art. No.: CD010357. DOI: 10.1002/14651858.CD010357.pub2
23. Ireland CJ, Chapman TM, Mathew SF, Herbison GP, Zacharias M. Continuous positive airway pressure (CPAP) during the postoperative period for prevention of postoperative morbidity and mortality following major abdominal surgery. *Cochrane Database of Systematic Reviews* 2014, Issue 8. Art. No.: CD008930. DOI: 10.1002/14651858.CD008930.pub2
24. Smith MD, McCall J, Plank L, Herbison GP, Soop M, Nygren J. Preoperative carbohydrate treatment for enhancing recovery after elective surgery. *Cochrane Database of Systematic Reviews* 2014, Issue 8. Art. No.: CD009161. DOI: 10.1002/14651858.CD009161.pub2
25. Burns KEA, Lellouche F, Nisenbaum R, Lessard MR, Friedrich JO. Automated weaning and SBT systems versus non-automated weaning strategies for weaning time in invasively ventilated critically ill adults. *Cochrane Database of Systematic Reviews* 2014, Issue 9. Art. No.: CD008638. DOI: 10.1002/14651858.CD008638.pub2
26. Huang Y, He Q, Yang LJ, Liu GJ, Jones A. Cardiopulmonary resuscitation (CPR) plus delayed defibrillation versus immediate defibrillation for out-of-hospital cardiac arrest. *Cochrane Database of Systematic Reviews* 2014, Issue 9. Art. No.: CD009803. DOI: 10.1002/14651858.CD009803.pub2
27. Costi D, Cyna AM, Ahmed S, Stephens K, Strickland P, Ellwood J, Larsson JN, Chooi C, Burgoyne LL, Middleton P. Effects of sevoflurane versus other general anaesthesia on emergence agitation in children. *Cochrane Database of Systematic Reviews* 2014, Issue 9. Art. No.: CD007084. DOI: 10.1002/14651858.CD007084.pub2
28. Tao KM, Li XQ, Yang LQ, Yu WF, Lu ZJ, Sun YM, Wu FX. Glutamine supplementation for critically ill adults. *Cochrane Database of Systematic Reviews* 2014, Issue 9. Art. No.: CD010050. DOI: 10.1002/14651858.CD010050.pub2
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30. Murphy A, O'Sullivan R, Wakai A, Grant TS, Barrett MJ, Cronin J, McCoy SC, Hom J, Kandamany N. Intranasal fentanyl for the management of acute pain in children. *Cochrane Database of Systematic Reviews* 2014, Issue 10. Art. No.: CD009942. DOI: 10.1002/14651858.CD009942.pub2
31. Cakmakkaya OS, Kolodzie K, Apfel CC, Pace NL. Anaesthetic techniques for risk of malignant tumour recurrence. *Cochrane Database of Systematic Reviews* 2014, Issue 11. Art. No.: CD008877. DOI: 10.1002/14651858.CD008877.pub2
32. Warttig S, Alderson P, Campbell G, Smith AF. Interventions for treating inadvertent postoperative hypothermia. *Cochrane Database of Systematic Reviews* 2014, Issue 11. Art. No.: CD009892. DOI: 10.1002/14651858.CD009892.pub2
33. Ashby M, Haug G, Mulcahy P, Ogden KJ, Jensen O, Walters JAE. Conservative versus interventional management for primary spontaneous pneumothorax in adults. *Cochrane Database of Systematic Reviews* 2014, Issue 12. Art. No.: CD010565. DOI: 10.1002/14651858.CD010565.pub2
34. Ullman AJ, Aitken LM, Rattray J, Kenardy J, Le Brocq R, MacGillivray S, Hull AM. Diaries for recovery from critical illness. *Cochrane Database of Systematic Reviews* 2014, Issue 12. Art. No.: CD010468. DOI: 10.1002/14651858.CD010468.pub2

### *Updated reviews*

- 1 do Nascimento Junior P, Módolo NSP, Andrade S, Guimarães MMF, Braz LG, El Dib R. Incentive spirometry for prevention of postoperative pulmonary complications in upper abdominal surgery.

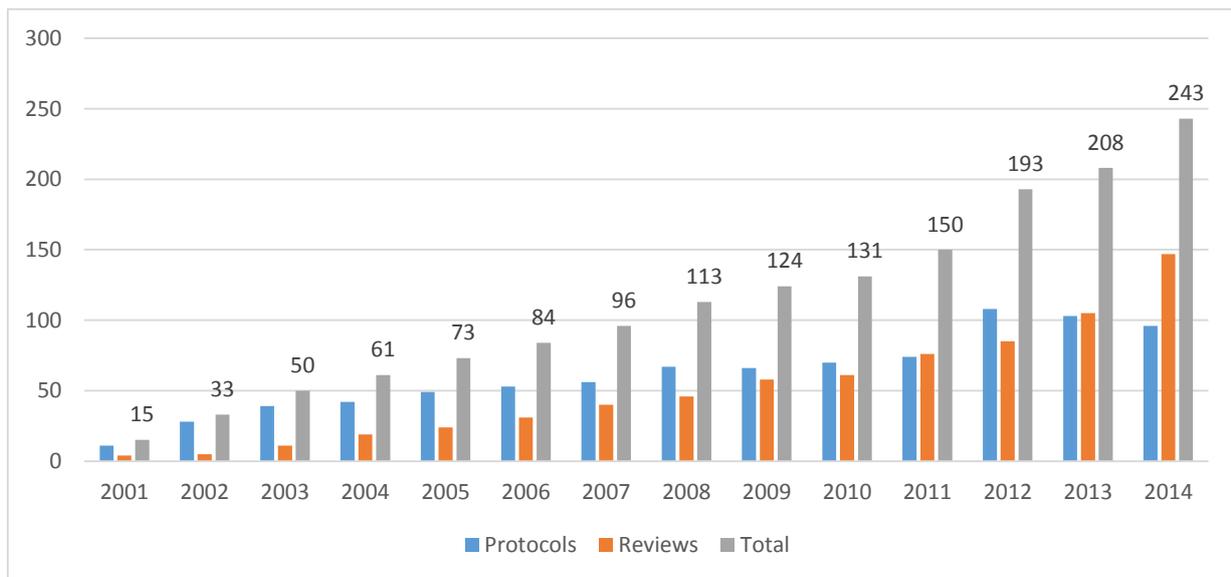
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- 2 Paul M, Lador A, Grozinsky-Glasberg S, Leibovici L. Beta lactam antibiotic monotherapy versus beta lactam-aminoglycoside antibiotic combination therapy for sepsis. Cochrane Database of Systematic Reviews 2014, Issue 1. Art. No.: CD003344. DOI: 10.1002/14651858.CD003344.pub3
  - 3 Pedersen T, Nicholson A, Hovhannisyan K, Møller AM, Smith AF, Lewis SR. Pulse oximetry for perioperative monitoring. Cochrane Database of Systematic Reviews 2014, Issue 3. Art. No.: CD002013. DOI: 10.1002/14651858.CD002013.pub3
  - 4 Rose L, Schultz MJ, Cardwell CR, Jouviet 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 2014, Issue 6. Art. No.: CD009235. DOI: 10.1002/14651858.CD009235.pub3
  - 5 Barbosa FT, Castro AA, de Sousa-Rodrigues CF. Positive end-expiratory pressure (PEEP) during anaesthesia for prevention of mortality and postoperative pulmonary complications. Cochrane Database of Systematic Reviews 2014, Issue 6. Art. No.: CD007922. DOI: 10.1002/14651858.CD007922.pub3
  - 6 Punjasawadwong Y, Phongchiewboon A, Bunchungmongkol N. Bispectral index for improving anaesthetic delivery and postoperative recovery. Cochrane Database of Systematic Reviews 2014, Issue 6. Art. No.: CD003843. DOI: 10.1002/14651858.CD003843.pub3
  - 7 Bizzarro M, Gross I, Barbosa FT. Inhaled nitric oxide for the postoperative management of pulmonary hypertension in infants and children with congenital heart disease. Cochrane Database of Systematic Reviews 2014, Issue 7. Art. No.: CD005055. DOI: 10.1002/14651858.CD005055.pub3
  - 8 Blackwood B, Burns KEA, Cardwell CR, O'Halloran P. Protocolized versus non-protocolized weaning for reducing the duration of mechanical ventilation in critically ill adult patients. Cochrane Database of Systematic Reviews 2014, Issue 11. Art. No.: CD006904. DOI: 10.1002/14651858.CD006904.pub3
  - 9 Bradt J, Dileo C. Music interventions for mechanically ventilated patients. Cochrane Database of Systematic Reviews 2014, Issue 12. Art. No.: CD006902. DOI: 10.1002/14651858.CD006902.pub3

### *New protocols*

- 1 Wilmott AR, Thompson GC, Lang E, Powelson S, Wakai A, Vandermeer B, O'Sullivan R. Atropine therapy versus no atropine therapy for the prevention of adverse events in paediatric patients undergoing intubation. Cochrane Database of Systematic Reviews 2014, Issue 1. Art. No.: CD010898. DOI: 10.1002/14651858.CD010898
- 2 Yu Y, Zhang K, Zhang L, Zong H, Meng L, Han R. Cerebral near-infrared spectroscopy (NIRS) for perioperative monitoring of brain oxygenation in children and adults. Cochrane Database of Systematic Reviews 2014, Issue 1. Art. No.: CD010947. DOI: 10.1002/14651858.CD010947
- 3 Andersson ML, Møller AM, Pace NL. Emergency cricothyroidotomy for airway management. Cochrane Database of Systematic Reviews 2014, Issue 1. Art. No.: CD010921. DOI: 10.1002/14651858.CD010921
- 4 Zhuo GY, He Q, Yang LJ, Liu GJ, Rajan JN. Neuromuscular blocking agents for patients with acute respiratory distress syndrome (Protocol). Cochrane Database of Systematic Reviews 2014, Issue 1. Art. No.: CD010924. DOI: 10.1002/14651858.CD010924
- 5 Wang F, Wu Y, Tang L, Gao C, Li J, Deng X. Thoracic epidural anaesthesia combined with general anaesthesia versus general anaesthesia alone for one-lung ventilation. Cochrane Database of Systematic Reviews 2014, Issue 1. Art. No.: CD010900. DOI: 10.1002/14651858.CD010900
- 6 Silva BNG, Andriolo RB, Salomão R, Atallah ÁN. Effectiveness and safety of procalcitonin evaluation for reducing mortality in adult patients with sepsis, severe sepsis and septic shock. Cochrane

- Database of Systematic Reviews 2014, Issue 2. Art. No.: CD010959. DOI: 10.1002/14651858.CD010959
- 7 Mesgarpour B, Heidinger BH, Roth D, Schmitz S, Walsh CD, Herkner H. Safety of off-label erythropoiesis-stimulating agents for critically ill patients. *Cochrane Database of Systematic Reviews* 2014, Issue 2. Art. No.: CD010969. DOI: 10.1002/14651858.CD010969
  - 8 Nicholson A, Hockenhull J, Greenhalgh J, Cook TM, Smith AF, Lewis SR. Nitrous oxide-based versus nitrous oxide-free general anaesthesia and accidental awareness during general anaesthesia in surgical patients. *Cochrane Database of Systematic Reviews* 2014, Issue 3. Art. No.: CD011052. DOI: 10.1002/14651858.CD011052
  - 9 Lewis SR, Nicholson A, Smith AF, Alderson P. Alpha-2 adrenergic agonists for the prevention of shivering following general anaesthesia. *Cochrane Database of Systematic Reviews* 2014, Issue 5. Art. No.: CD011107. DOI: 10.1002/14651858.CD011107
  - 10 Buggeskov KB, Nielsen JB, Wetterslev J. Pulmonary perfusion versus no pulmonary perfusion during cardiopulmonary bypass for cardiac surgery. *Cochrane Database of Systematic Reviews* 2014, Issue 5. Art. No.: CD011098. DOI: 10.1002/14651858.CD011098
  - 11 Lewis SR, Nicholson A, Cook TM, Smith AF, Parker J, Butler A. Videolaryngoscopy versus direct laryngoscopy for adult surgical patients requiring tracheal intubation for general anaesthesia. *Cochrane Database of Systematic Reviews* 2014, Issue 5. Art. No.: CD011136. DOI: 10.1002/14651858.CD011136
  - 12 Nguyen D-N, Guay J, Ochroch EA. Intraoperative use of low volume ventilation to decrease postoperative mortality, mechanical ventilation, lengths of stay and lung injury in patients without acute lung injury. *Cochrane Database of Systematic Reviews* 2014, Issue 6. Art. No.: CD011151. DOI: 10.1002/14651858.CD011151
  - 13 Nicholson A, Lewis SR, Alderson P, Smith AF, Coldwell CH, Pace NL. Nurse-led service versus doctor-led service for preoperative assessment in elective surgical patients. *Cochrane Database of Systematic Reviews* 2014, Issue 12. Art. No.: CD011173. DOI: 10.1002/14651858.CD011173.pub2
  - 14 Janum S, Afshari A. Central venous catheter (CVC) removal for adult patients with candidaemia. *Cochrane Database of Systematic Reviews* 2014, Issue 7. Art. No.: CD011195. DOI: 10.1002/14651858.CD011195
  - 15 Shetty RM, Bellini A, Wijayatilake DS, Hamilton MA, Jain R, De La Cerda G, Stowell S, Karanth S. BIS monitoring versus clinical assessment for sedation in mechanically ventilated adult patients in the intensive care unit and its impact on clinical outcomes and resource utilization. *Cochrane Database of Systematic Reviews* 2014, Issue 8. Art. No.: CD011240. DOI: 10.1002/14651858.CD011240
  - 16 Punjasawadwong Y, Chau-in W, Laopaiboon M, Punjasawadwong S. Processed electroencephalogram indices for amelioration of postoperative delirium and cognitive dysfunction following non-cardiac and non-neurosurgical procedures. *Cochrane Database of Systematic Reviews* 2014, Issue 8. Art. No.: CD011283. DOI: 10.1002/14651858.CD011283
  - 17 Pace NL, Carlisle J, Eberhart LHJ, Kranke P, Trivella M, Lee A, Bennett MH. Prediction models for the risk of postoperative nausea and vomiting. *Cochrane Database of Systematic Reviews* 2014, Issue 9. Art. No.: CD011318. DOI: 10.1002/14651858.CD011318
  - 18 Sng BL, Zeng Y, Leong WL, Oh TT, Siddiqui FJ, Assam PN, Chan ESY, Sia AT. Automated mandatory bolus versus basal infusion for maintenance of epidural analgesia in labour. *Cochrane Database of Systematic Reviews* 2014, Issue 10. Art. No.: CD011344. DOI: 10.1002/14651858.CD011344
  - 19 Pertzov B, Zalmanovici Trestioreanu A, Eliakim-Raz N, Yahav D, Leibovici L. Hydroxymethylglutaryl-CoA reductase inhibitors (statins) for the treatment of sepsis. *Cochrane Database of Systematic Reviews* 2014, Issue 10. Art. No.: CD011329. DOI: 10.1002/14651858.CD011329
  - 20 Aouad-Maroun M, Farah F, Akl EA, Raphael CK, Sayyid SK. Ultrasound-guided arterial cannulation for paediatric patients. *Cochrane Database of Systematic Reviews* 2014, Issue 11. Art. No.: CD011364. DOI: 10.1002/14651858.CD011364

- 21 Guay J, Suresh S. The use of ultrasound guidance for perioperative neuraxial and peripheral nerve blocks in children. *Cochrane Database of Systematic Reviews* 2014, Issue 12. Art. No.: CD011436. DOI: 10.1002/14651858.CD011436
- 22 Herling SF, Dreijer B, Thomsen T, Møller AM. Total intravenous anaesthesia versus inhalational anaesthesia for transabdominal robotic assisted laparoscopic surgery. *Cochrane Database of Systematic Reviews* 2014, Issue 12. Art. No.: CD011387. DOI: 10.1002/14651858.CD011387
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- 24 Abdelgadir IS, Phillips RS, Moncreiff MP, Lumsden JL. Video-laryngoscopy versus direct laryngoscopy for tracheal intubation in children (excluding neonates). *Cochrane Database of Systematic Reviews* 2014, Issue 12. Art. No.: CD011413. DOI: 10.1002/14651858.CD011413



The Cochrane Anaesthesia Review Group's publication in *the Cochrane Library* 2000 to 2014  
 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 2014:

**Australia:** Evan Alexandrou, Mark W Davies, Kwok M Ho, Ian Jacobs, Kate Leslie, Paul Myles, Megan Prictor, Claire Rickard

**Austria:** Oliver Kimberger

**Belgium:** Marc Van de Velde, Francis Veyckemans

**Canada:** Miguel F Arango, Mazen Bader, Fernando Botto, Eric Bruder, Dominic A Cave, Guillaume Emeriaud, Mauricio Ferri, Imelda M Galvin, Gordon Guyatt, Melissa Giraldo-Duque, Joanne Guay, Jill Hayden, Jan Jensen, Ari Joffe, Stephan Langevin, Martin R Lessard, Giovanna Lurati, Sandra M Marini, Marko Mrkobrada, Tom J Overend, Louise Rose, Robert Seal, Denise Thomson, Bryan Young, Ryan Zarychanski

**Colombia:** Martha B Delgado Ramírez, Javier Eslava-Schliver

**Denmark:** Thomas Fichtner Bendtsen, Martin Kryspin Sørensen, Lars Lundstrom, Thordis Thomsen, Morten Vester-Andersen, Jørn Wetter selv, Anne Wikkelsø

**France:** Pascal Alfonsi, Jean Pierre Estebe, Samir Jaber, Christophe Milési

**Germany:** André Börgers, Hilmar Wisplinghoff

**Hong Kong:** Janet Sit

**India:** Preethy Mathew, Aparna Sinha, Prathap Tharyan

**Israel:** Mical Paul

**Italy:** Egidio Barbi, Federico Bilotta, Andrea Cortegiani, Paolo Pelosi, Maurizio Solca

**Japan:** Mina Nishimori

**Korea (South):** Jin-Tae Kim

**Malaysia:** Nai Ming Lai

**Netherlands:** Bernard G Fikkers, Janneke Horn, Vera Meeusen, Karel Moons, Wilton A van Klei

**Norway:** Kari A Leiknes

**New Zealand:** Ross Freebairn, Tim Short

**Philippines:** Marissa M Alejandria

**Sweden:** Malin Rundgren

**Switzerland:** Julia Bohlius, Oliver Karam

**Thailand:** Yodying Punjasawadwon

**UK:** R. Peter Alston, Peter JD Andrews, Bronagh Blackwood, Thomas Bongers, Philip C Calder, Michael Davies, Ahilanandan Dushianthan, Pierre Foex, Chris Frerk, Ben Gibbison, Arnab Ghosh, Jane E Jackson, Christina Jones, Linda J Kelly, Andrew MacDuf, Iain J McCullagh, R. Andrew Moore, Richard L Nelson, David Noble, Jaideep J Pandit, Subrahmanyam Radhakrishna, Mark Skues, Tamas Szakmany, Vaughan L Thomas, Krishna K Varadhan, Kevin J Walker

**USA:** Claude Abdallah, Basem Abdelmalak, Joshua Atkins, Hamdy Awad, Lorne A Becker, Clarence J Biddle, George Bikhazi, Davide Cattano, Rodrigo Cavallazzi, Ira M Cheifetz, Douglas Coursin, Theresa Davis, Marjolein de Wit, Aaron Donoghue, Daniel M Gainsburg, Tong J Gan, Dean Hess, Jennifer C Hirsch-Romano, Shigemasa Ikeda, John P Kress, Rainer Lenhardt, Jerrold Lerman, Jeffrey K Lu, William McIlvaine, George A Mashour, Donald R Mattison, Nancy Moureau, Michael O'Connor, Peter Pappas, Christopher Rassekh, Dan Sessler, Gabriel L Snyder, Scott Strassels, Jeff Swenson, David Turner, Stacy Voils, Paul Wischmeyer

## Impact Factor for 2013

Note that the 2013 impact factors are actually published in 2014; they cannot be calculated until all of the 2013 publications have been processed by the indexing agency. Similarly, Wiley are able to inform us in 2014 which of our 2013 publications were most assessed or cited. The 2013 CRG impact factor for the Anaesthesia Group is 4.286 (28 publications cited 120 times). This compares with the British Journal of Anaesthesia's impact factor of 4.354

A review published by the Anaesthesia Group in 2011 or 2012 was cited, on average, 4.286 times in 2013.

*The top ten most cited reviews from the Anaesthesia Group contributing to the 2013 impact factor*

CD Number	Review Title	Times cited
CD007871	Thrombelastography (TEG) or thromboelastometry (ROTEM) to monitor haemotherapy versus usual care in patients with massive transfusion	32
CD004128	Hypothermia for neuroprotection in adults after cardiopulmonary resuscitation	17
CD003709	Vasopressors for hypotensive shock	10
CD007105	Local anaesthetics and regional anaesthesia for preventing chronic pain after surgery	7
CD005059	Epidural pain relief versus systemic opioid-based pain relief for abdominal aortic surgery	6
CD007274	Sedative techniques for endoscopic retrograde cholangiopancreatography	6
CD008935	Adrenaline auto-injectors for the treatment of anaphylaxis with and without cardiovascular collapse in the community	5
CD004084	Central venous access sites for the prevention of venous thrombosis, stenosis and infection	5
CD004082	Perioperative increase in global blood flow to explicit defined goals and outcomes following surgery	5
CD007596	Glucocorticoids for the treatment of anaphylaxis	4

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

Reviews published by the Anaesthesia Group were accessed in full-text format on average 684 times during 2013 (104 articles accessed 71,107 times). This is an increase of 2% on the 2012 figure of 671 (99 articles accessed 66,457 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.

CD Number	Review Title	Full Text Accesses
CD004128	Hypothermia for neuroprotection in adults after cardiopulmonary resuscitation	4,385
CD006058	Incentive spirometry for prevention of postoperative pulmonary complications in upper abdominal surgery	2,220
CD003408	Pulmonary artery catheters for adult patients in intensive care	2,068
CD003844	Lung protective ventilation strategy for the acute respiratory distress syndrome	1,812
CD003709	Vasopressors for hypotensive shock	1,655

CD004085	High-frequency ventilation versus conventional ventilation for treatment of acute lung injury and acute respiratory distress syndrome	1,512
CD004125	Drugs for preventing postoperative nausea and vomiting	1,511
CD004088	Patient controlled intravenous opioid analgesia versus continuous epidural analgesia for pain after intra-abdominal surgery	1,474
CD006908	Music interventions for preoperative anxiety	1,336
CD004084	Central venous access sites for the prevention of venous thrombosis, stenosis and infection	1,310

## The different review types registered by CARG

The majority of our published reviews are intervention reviews. However, we also have Diagnostic Test Accuracy (DTA) reviews and an overview as well as one published qualitative protocol. We are honoured to have been chosen to create and publish a protocol for 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 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 (CARG editor and Director, Lancaster Patient Safety Research Unit). CARG provides editorial support for these reviews.

In 2014, the NIHR/Cochrane team published four new reviews, one updated reviews and four new protocols. The new NIHR/Cochrane published reviews 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
- Alderson P, Campbell G, Smith AF, Warttig S, Nicholson A, Lewis SR. Thermal insulation for preventing inadvertent perioperative hypothermia. Cochrane Database of Systematic Reviews 2014, Issue 6. Art. No.: CD009908. DOI: 10.1002/14651858.CD009908.pub2
- Lewis SR, Nicholson A, Smith AF, Alderson P. Physician anaesthetists versus non-physician providers of anaesthesia for surgical patients. Cochrane Database of Systematic Reviews 2014, Issue 7. Art. No.: CD010357. DOI: 10.1002/14651858.CD010357.pub2
- Warttig S, Alderson P, Campbell G, Smith AF. Interventions for treating inadvertent postoperative hypothermia. Cochrane Database of Systematic Reviews 2014, Issue 11. Art. No.: CD009892. DOI: 10.1002/14651858.CD009892.pub2

The new NIHR/Cochrane published update is:

- Pedersen T, Nicholson A, Hovhannisyanyan K, Møller AM, Smith AF, Lewis SR. Pulse oximetry for perioperative monitoring. Cochrane Database of Systematic Reviews 2014, Issue 3. Art. No.: CD002013. DOI: 10.1002/14651858.CD002013.pub3

And the new NIHR/Cochrane published protocols are:

- Nicholson A, Hockenhull J, Greenhalgh J, Cook TM, Smith AF, Lewis SR. Nitrous oxide-based versus nitrous oxide-free general anaesthesia and accidental awareness during general anaesthesia in surgical patients. Cochrane Database of Systematic Reviews 2014, Issue 3. Art. No.: CD011052. DOI: 10.1002/14651858.CD011052
- Lewis SR, Nicholson A, Smith AF, Alderson P. Alpha-2 adrenergic agonists for the prevention of shivering following general anaesthesia. Cochrane Database of Systematic Reviews 2014, Issue 5. Art. No.: CD011107. DOI: 10.1002/14651858.CD011107
- Lewis SR, Nicholson A, Cook TM, Smith AF, Parker J, Butler A. Videolaryngoscopy versus direct laryngoscopy for adult surgical patients requiring tracheal intubation for general anaesthesia. Cochrane Database of Systematic Reviews 2014, Issue 5. Art. No.: CD011136. DOI: 10.1002/14651858.CD011136
- Nicholson A, Lewis SR, Alderson P, Smith AF, Coldwell CH, Pace NL. Nurse-led service versus doctor-led service for preoperative assessment in elective surgical patients. Cochrane Database of Systematic Reviews 2014, Issue 12. Art. No.: CD011173. DOI: 10.1002/14651858.CD011173.pub2

## 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. Those standards are sent out to authors and editors at all stages of the editorial process and to peer reviewers when they are sent a manuscript to review.

## 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. That screening was ongoing throughout 2014. The team 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. The screening project has identified ways in which all Groups can improve their practice.

## How we contribute to Cochrane

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

### *Conferences and Meetings:*

1. In December 2014 Ann Møller attended a training event in Paris, “Including non-randomized studies of interventions in a Cochrane Systematic Review and applying a Cochrane Risk of Bias Assessment Tool for Non-Randomized Studies (ACROBAT-NRS)”
2. Our first Diagnostic Test Assessment review (Computed tomography (CT) angiography for confirmation of the clinical diagnosis of brain death. Cochrane Database of Systematic Reviews 2014, Issue 3. Art. No.: CD009694. DOI: 10.1002/14651858.CD009694.pub2) prompted the World Health Organization (WHO) to invite two editors (Andy Smith and Nicola Petrucci) to perform a scoping review and take part in a WHO panel on the diagnosis of brain death.

## CARG Publications



Georgina Imberger has been involved as a doctoral student in the Cochrane Anaesthesia Review Group and the Copenhagen Trials Unit since 2011. Georgina defended her PhD thesis in October 2014. The title of the thesis is “Multiplicity and sparse data in systematic reviews of anaesthesiological interventions: a cause of increased risk of random error and lack of reliability of conclusions?”

Some CARG reviews were also co-published or abstracted in other journals during 2014.

1. Guay J1, Choi PT, Suresh S, Albert N, Kopp S, Pace NL. Neuraxial anesthesia for the prevention of postoperative mortality and major morbidity: an overview of Cochrane systematic reviews. *Anesthesia and Analgesia*. 2014 Sep;119(3):716-25.

CARG editors published the following articles in 2014

- 1 Hovhannisyan K, Cracknell J, Afzali M, Møller AMM. Anaesthesiology and the Cochrane Collaboration. *NAForum. Tidsskrift for Norsk Anestesiologisk Forening* Vol 27; 2014, nr 4, 13-14
- 2 Hilton J, Stewart G, Cracknell J, Jackson L, Abaring T. Feedback on Cochrane Reviews: how much is there and what happens to it? Poster: 22nd Cochrane Colloquium, Hyderabad (2014)
- 3 Møller AM. Digging for evidence: Is the answer available? *Trends in Anaesthesia and Critical Care* 2014; 4(5): 133-17
- 4 Stephan Kettner. Not too little, not too much: delivering the right amount of anaesthesia during surgery [editorial]. *Cochrane Database of Systematic Reviews* 2014;(June): 10.1002/14651858.ED000084

## **CARG website**

The CARG 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
- Available titles

## **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 300). Sadly we do not have the resources to offer unlimited TSC support to all authors. All authors seeking TSC help must contact our TSC 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 37,000 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.

## Consumer representation in CARG reviews

We have a small but active consumer panel consisting of: Ann Fonfa, Anne Lyddiatt, Patricia Tong, Janet Wale (consumer editor) and Durhane Wong-Rieger. We would welcome more new consumers to help us improve our plain language summaries.

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 achieved the following goals in 2014

- We aimed to publish 20 reviews and 15 protocols. In fact we published 34 new reviews, 9 updated reviews and 24 new protocols
- We recruited a new statistical editor (we would always welcome more)

## Our goals for 2015

- To continuously improve the quality and the clinical relevance of CARG reviews 'fewer, better reviews'
- To recruit more editors
- To publish at least 20 reviews and 15 protocols
- To hold an editors' meeting
- To have a major update to our website
- To establish our presence on the Social Networks

## Our Funders

- Region Hovedstaden
- Læge Sofus Friis Legat
- Wedellsborgs Fond



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