



THE COCHRANE ANAESTHESIA REVIEW GROUP

Annual report 2011



Rigshospitalet

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Preface

Welcome to the 2011 CARG annual report.

This has been a particularly 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 instead of quarterly. This frequency of publication has brought new challenges, such as an increased number of deadlines, but also advantages such as more frequent publications and a shorter delay between approval of a protocol or review for publication and its appearance on-line. We published 4 new reviews, 7 updated reviews and 21 protocols in 2011. The total number of CARG reviews and protocols in *The Cochrane Library* is now 74 reviews and 76 protocols.

In 2011 we started to use workflows to help organize our work. This electronic system will speed up both communication between the Editorial Base and authors and publications. The workflow system helps us track where each protocol and review is in the editorial process, communicate directly with authors, peers and editors and to store all files. Like any new system it will take a while to get used to but the advantages are beginning to show.

We continued, in 2011, to receive many expressions of interest from developing country authors in registering titles in anaesthesia, emergency medicine and intensive care. In 2012 we will hold a CARG editorial meeting. At time of press the location is still unconfirmed. If possible we hope to combine this meeting with master classes and workshops. However that depends on the location.

We attended the Cochrane Colloquium in Madrid, Spain and held very successful Editorial Board and CARG contributors' meetings.

There have been changes to the group. CARG's associated PhD student successfully defended his thesis and has now joined us as an editor. In addition we have a new Emergency Medicine Editor. All of these changes and others are detailed further on in this addition of the annual report.

We would like to thank CARG's worldwide contributors 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 2011. 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 2012

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 evaluating outcomes in:

- Anaesthesia
- Perioperative medicine
- Intensive care medicine
- Emergency medicine
- Prehospital 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 Panum Institute, Rigshospitalet, Copenhagen, Denmark.

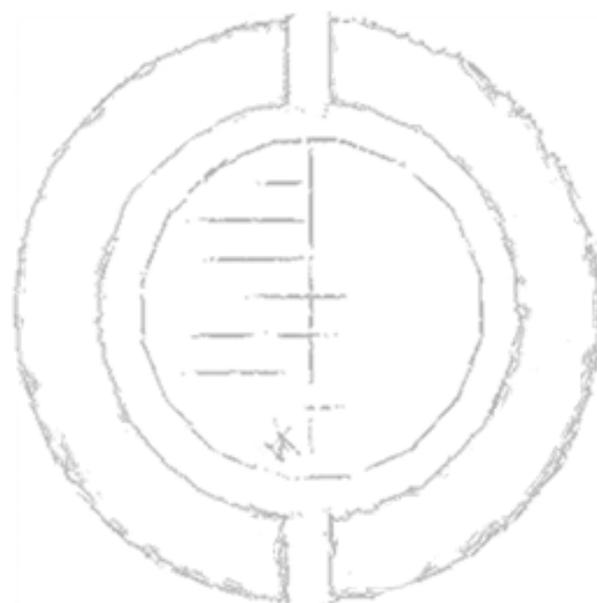
Ann M Møller, MD, DMSc, Associate Professor of Anaesthesiology
Co-ordinating Editor

Nathan Pace MD, MSTAT Professor of Anesthesiology
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



CARG Editors

In 2011 Martha Beatriz Delgado Ramirez resigned as a CARG editor.

Two new editors, Arash Afshari and Ronan O'Sullivan, joined CARG Editorial Board in 2011. Arash has been affiliated with CARG during the last 3 years as a PhD student. He is working as a paediatric Anaesthetist in Copenhagen and also has a part time research position at the University of Geneva, Switzerland, Department of Infectious Disease Control. Ronan has been affiliated with CARG (and other review groups) for several years as an author and reviewer. He works as a Consultant in Paediatric Emergency Medicine at Ireland's largest tertiary children's hospital, clinical trials and health services research. They will both be a great asset to our team.

- Arash Afshari, Denmark and Switzerland
- Michael Bennett, Australia
- John Carlisle, UK (Feedback Editor)
- Harald Herkner, Austria
- Stephan Kettner, Austria
- Anna Lee, Hong Kong
- Ann M. Møller, Denmark
- Mark Neuman, USA
- Ronan O'Sullivan, Ireland
- 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
- Mathew Zacharias, New Zealand

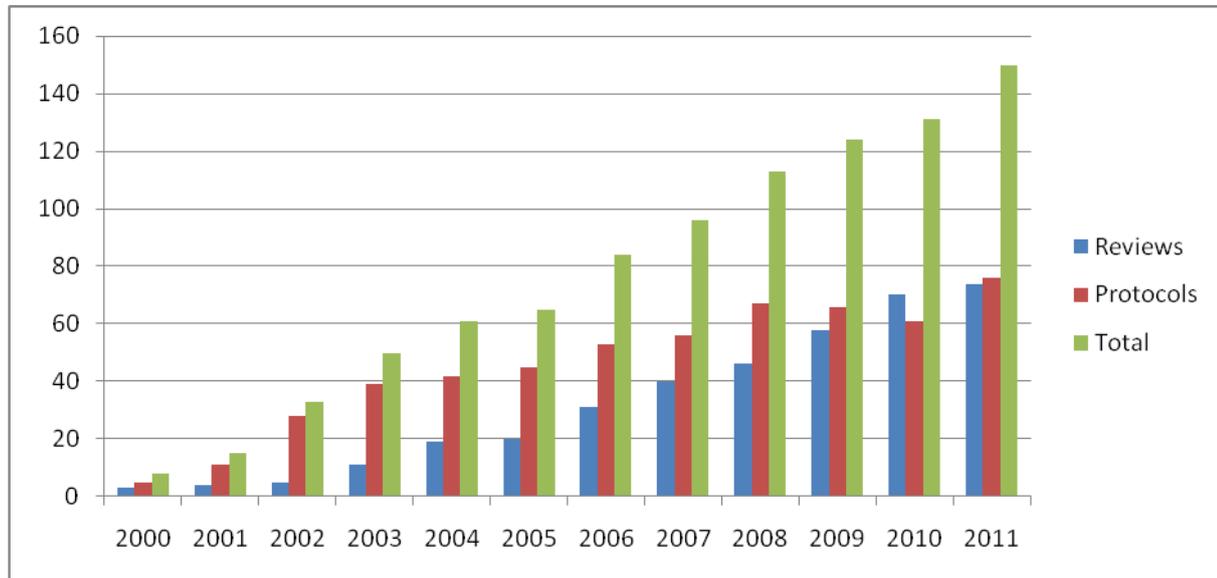
CARG Members

We have a broad membership of individuals, many of whom are active and contribute to our work by performing systematic reviews, editing, peer refereeing, handsearching, 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*, 2011

We published 4 new reviews, 7 updated reviews and 21 protocols in 2011.



The Cochrane Anaesthesia Review Group's publication in *The Cochrane Library* 2000 to 2011
Source: *The Cochrane Information Management System*

New reviews

Afshari A, Wikkelsø A, Brok J, Møller AM, Wetterslev J. Thrombelastography (TEG) or thromboelastometry (ROTEM) to monitor haemotherapy versus usual care in patients with massive transfusion. *Cochrane Database of Systematic Reviews* 2011, Issue 3. Art. No.: CD007871. DOI: 10.1002/14651858.CD007871.pub2.

Wakai A, O'Sullivan R, McCabe A. Intra-articular lignocaine versus intravenous analgesia with or without sedation for manual reduction of acute anterior shoulder dislocation in adults. *Cochrane Database of Systematic Reviews* 2011, Issue 4. Art. No.: CD004919. DOI: 10.1002/14651858.CD004919.pub2.

Eidelman A, Weiss JM, Baldwin CL, Enu IK, McNicol ED, Carr DB. Topical anaesthetics for repair of dermal laceration. *Cochrane Database of Systematic Reviews* 2011, Issue 6. Art. No.: CD005364. DOI: 10.1002/14651858.CD005364.pub2.

Milani WRO, Antibas PL, Prado GF. Cooling for cerebral protection during brain surgery. *Cochrane Database of Systematic Reviews* 2011, Issue 10. Art. No.: CD006638. DOI: 10.1002/14651858.CD006638.pub2.

Updated reviews

Sheikh A, Shehata YA, Brown SGA, Simons FER. Adrenaline (epinephrine) for the treatment of anaphylaxis with and without shock. *Cochrane Database of Systematic Reviews* 2008, Issue 4. Art. No.: CD006312. DOI: 10.1002/14651858.CD006312.pub2.

Sheikh A, ten Broek VM, Brown SGA, Simons FER. H1-antihistamines for the treatment of anaphylaxis with and without shock. Cochrane Database of Systematic Reviews 2007, Issue 1. Art. No.: CD006160. DOI: 10.1002/14651858.CD006160.pub2.

Martí-Carvajal AJ, Solà I, Lathyris D, Cardona AF. Human recombinant activated protein C for severe sepsis. Cochrane Database of Systematic Reviews 2011, Issue 4. Art. No.: CD004388. DOI: 10.1002/14651858.CD004388.pub4.

Alhassan MB, Kyari F, Ejere HOD. Peribulbar versus retrobulbar anaesthesia for cataract surgery. Cochrane Database of Systematic Reviews 2008, Issue 3. Art. No.: CD004083. DOI: 10.1002/14651858.CD004083.pub2.

Havel C, Arrich J, Losert H, Gamper G, Müllner M, Herkner H. Vasopressors for hypotensive shock. Cochrane Database of Systematic Reviews 2011, Issue 5. Art. No.: CD003709. DOI: 10.1002/14651858.CD003709.pub3.

Barbosa FT, Jucá MJ, Castro AA, Cavalcante JC. Neuraxial anaesthesia for lower-limb revascularization. Cochrane Database of Systematic Reviews 2010, Issue 1. Art. No.: CD007083. DOI: 10.1002/14651858.CD007083.pub2.

Chin KJ, Handoll HHG. Single, double or multiple-injection techniques for axillary brachial plexus block for hand, wrist or forearm surgery in adults. Cochrane Database of Systematic Reviews 2011, Issue 7. Art. No.: CD003842. DOI: 10.1002/14651858.CD003842.pub3.

New protocols

Sheikh A, Simons FER, Worth A. Adrenaline auto-injectors for the treatment of anaphylaxis with and without cardiovascular collapse in the community (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 1. Art. No.: CD008935. DOI: 10.1002/14651858.CD008935.

Antibas PL, El Dib RP, Bassi A, Fausto de Moraes J. Air versus saline in the loss of resistance technique for the identification of the epidural space (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 1. Art. No.: CD008938. DOI: 10.1002/14651858.CD008938.

Ireland CJ, Chapman TM, Herbison GP, Zacharias M. Continuous positive airway pressure (CPAP) in the postoperative period for the prevention of postoperative morbidity and mortality following major abdominal surgery (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 1. Art. No.: CD008930. DOI: 10.1002/14651858.CD008930.

Yang K, Jia WQ, Tian J, Ma B, Liu Y, Jia RH, Zhang P, Luo XF. Nitrous oxide-based techniques versus nitrous oxide-free techniques for general anaesthesia (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 2. Art. No.: CD008984. DOI: 10.1002/14651858.CD008984.

Urrútia G, Roqué i Figuls M, Campos JM, Paniagua P, Cibrian Sánchez S, Maestre L, Álvarez C, Gempeler FE, Alonso-Coello P. Active warming systems for preventing inadvertent perioperative hypothermia in adults (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 3. Art. No.: CD009016. DOI: 10.1002/14651858.CD009016.

Ortiz AC, Atallah ÁN, da Silva EMK. Intravenous versus inhalational anaesthesia for paediatric outpatient surgery (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 3. Art. No.: CD009015. DOI: 10.1002/14651858.CD009015.

Qamarul Hoda M, Samad K, Ullah H. ProSeal versus Classic laryngeal mask airway (LMA) for positive pressure ventilation in adult patients undergoing elective surgery (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 3. Art. No.: CD009026. DOI: 10.1002/14651858.CD009026

Murray M, O'Halloran P, Chisakuta A, Cardwell CR, Blackwood B. Protocolized versus non-protocolized weaning for reducing the duration of invasive mechanical ventilation in critically ill paediatric patients (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 4. Art. No.: CD009082. DOI: 10.1002/14651858.CD009082.

Santa Cruz R, Rojas JI, Nervi R, Heredia R, Ciapponi A. High versus low positive end-expiratory pressures (PEEP) levels for mechanically ventilated adult patients with acute lung injury and acute respiratory distress syndrome (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 5. Art. No.: CD009098. DOI: 10.1002/14651858.CD009098.

Faria DDAS, da Silva EMK, Atallah ÁN, Vital FMR. Noninvasive positive pressure ventilation for upper abdominal surgery (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 5. Art. No.: CD009134. DOI: 10.1002/14651858.CD009134.

Yeung JHY, Gates S, Naidu BV, Leuwer M, Gao Smith F. Paravertebral block versus thoracic epidural for patients undergoing thoracotomy (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 5. Art. No.: CD009121. DOI: 10.1002/14651858.CD009121.

Burry L, Rose L, McCullagh I, Ferguson ND, Ferguson D, Mehta S. Daily sedation interruption versus no daily sedation interruption for critically ill adult patients requiring invasive mechanical ventilation (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 6. Art. No.: CD009176. DOI: 10.1002/14651858.CD009176.

Smith MD, McCall J, Plank L, Herbison GP, Soop M, Nygren J. Preoperative carbohydrate treatment for enhancing recovery after elective surgery (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 6. Art. No.: CD009161. DOI: 10.1002/14651858.CD009161.

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 (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 7. Art. No.: CD009235. DOI: 10.1002/14651858.CD009235.

Zou Z, Yuan HB, Chen XY, Liu GJ, Shi XY. Perioperative angiotensin-converting enzyme inhibitors or angiotensin II type 1 receptor blockers for preventing surgery-related mortality and morbidity (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 7. Art. No.: CD009210. DOI: 10.1002/14651858.CD009210.

Lundstrøm LH, Strande S, Møller AM, Wetterslev J. Use versus avoidance of neuromuscular blocking agent for improving conditions during tracheal intubation or direct laryngoscopy in adults and adolescents (Protocol). Cochrane Database of

Systematic Reviews 2011, Issue 7. Art. No.: CD009237. DOI: 10.1002/14651858.CD009237.

Tokmaji G, Vermeulen H, Müller MCA, Kwakman PHS, Schultz MJ, Zaat SAJ. Silver coated endotracheal tubes for prevention of ventilator-associated pneumonia in critically ill patients (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 7. Art. No.: CD009201. DOI: 10.1002/14651858.CD009201.

Prabhakar H, Ali Z, Kalaivani M, Singh GP. Pharmacological and non-pharmacological interventions for reducing rocuronium bromide induced pain on injection in children and adults (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 10. Art. No.: CD009346. DOI: 10.1002/14651858.CD009346.

Scholefield B, Morris K, Duncan H, Davies P, Gao Smith F, Khan K. Hypothermia for neuroprotection in children after cardiopulmonary arrest (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 11. Art. No.: CD009442. DOI: 10.1002/14651858.CD009442.

Morão S, Ratilal BO, Santos H, Sampaio C. Midazolam for sedation before procedures (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 12. Art. No.: CD009491. DOI: 10.1002/14651858.CD009491

Dalziel SR, Jordan V, Herd D, Reed PW. Vapocoolants for pain treatment during intravenous cannulation (Protocol). Cochrane Database of Systematic Reviews 2011, Issue 12. Art. No.: CD009484. DOI: 10.1002/14651858.CD009484.

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 who contributed to the editorial process of a protocol or review published in 2011:

Neill Adhikari, Arash Afshari, Djillali Annane, Miguel Arango, Jasmin Arrich, Jane Ballantyne, Sujesh Bansal, Egidio Barbi, Karen Burns, John Burton, Rodrigo Cavallazzi, Fred Cheney, Peter Choi, Marc Davison, Daniel De Backer, Steven Deem, Wulf Dietrich, Donna Gillies, Mark Hamilton, Nicholas Hart, Dean Hess, Georgie Imberger, Jørgen Ingerslev, John P Kress, David Leaper, Leonard Leibovici, Francis Leclerc, Jerrold Lerman, Kate Leslie, Marc Licker, Olle Ljungqvist, Andrew William McIlvaine, Emmanuel Marret, Moore, Neil S Morton, Paul Myles, Rick Nelson, Mark Neuman, Ewan McNicol, Jonas Nygren, Ronan O'Sullivan, Jeffrey J Pasternak, Paolo Pelosi, Stephen Priestley, Richard Pumphrey, Felix Ram, Sujanthi Rajaram, Bernardo Ratilal, Louise Rose, Hugh A Sampson, Reza Shariat Moharari, Shahla Siddiqui, Scott Strassels, Benny Sørensen, Alexis Topjian, Marc Van de Velde, Shekhar T Venkataraman, Miguel Villasis-Kever, Jean-Louis Vincent, Marjolein de Wit, Helen Worthington, Diane Yorke, William Zempsky.

Publishing agreement with *Anesthesia and Analgesia* (A&A)

The Cochrane Anaesthesia Review Group has a publishing agreement with A&A. All newly published CARG reviews can be submitted to A&A if the authors wish. (Please be aware that authors do not have to submit their abstracts to A&A, they are entitled to

seek publication in a journal of their choice. (Each individual republication is of course subject to Cochrane Library approval). Authors are made aware that the editors' of A&A may either decide to publish their Cochrane abstract in a new Cochrane Corner or the full review. (If the editor in chief accepts the full review then it will need to be edited in accordance with A&A's style guidelines and will enter A&A's editorial process.)

Impact Factor

Note that 2010 impact factors are actually published in 2011; they cannot be calculated until all of the 2010 publications have been processed by the indexing agency; similarly Wiley are able to inform us in 2011 which of our 2010 publications were most assessed or cited.

The impact factor of the *CDSR* for 2010 rose to 6.186.. The Impact Factor increased by 9.4%. In the last 4 years the Impact Factor for the Cochrane Database of Systematic Reviews (CDSR) has increased by an average of 10% year on year. The CDSR is now ranked in the top 10 (of 151) in the Medicine, General & Internal category. The impact factor for CARG for 2009 was 4.654 (26 publications cited 121 times). A review published by the Anaesthesia Group in 2008 or 2009 was cited, on average, 4.654 times in 2010.

Diagnostic test accuracy (DTA) reviews

We now have four registered DTA titles of which one has been published, two are in the editorial process and one at title stage.

Lectures, Conferences and Meetings

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

Conferences and Meetings

- 19th Cochrane Colloquium Madrid, Spain (October 2011)

Cochrane Appointments 2011

- Nathan Pace was appointed to the Co-Ordinating Editors' Executive
- Jane Cracknell was appointed to the Handbook Advisory Editorial Panel
- Karen Hovhannisyanyan was appointed to the RevMan Advisory Committee

Cochrane Anaesthesia News

Cochrane Anaesthesia News, the CARG Newsletter, is published on the CARG website once a year and distributed to CARG members and other interested parties worldwide.

CARG website

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

The website 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

Specialized Register (SR-ANAESTH)

The CARG maintains a register of more than 33,000 RCTs and CCTs related to: anaesthesia, perioperative medicine, intensive care medicine, pre-hospital medicine, resuscitation and emergency medicine. The register is maintained on ProCite software, and searches for trials are executed 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, the Specialized Register, the Cochrane CENTRAL Register of Controlled Trials and The National Library of Medicine, CARG's HS-ANAESTH results have been submitted to NECC@Pcentral.

We currently have two active handsearchers. We are looking for new handsearchers to help us increase our handsearch activities.

Consumer representation in CARG reviews

We now have an active consumer panel consisting of: Suzanne Cunliffe, Ann Fonfa, Clare Jeffrey, Tracey Lloyd, Anne Lyddiatt, Anne Peticola, Janet Wale and Durhane Wong-Rieger.

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.

We achieved the following goals in 2011

- We recruited another anaesthesia editor (we also recruited an emergency medicine editor)
- We published 11 reviews (4 new and 7 updated) and 21 protocols
- We started planning for the editors' meeting in 2012

Our goals for 2012

- To continuously improve the quality and the clinical relevance of CARG reviews
- To hold a successful 2012 CARG editors' meeting
- To publish 10 reviews and 20 protocols

Funders

- Region Hovedstaden
- Sofus Carl Emil Friis og Hustru Olga Doris Friis' Legat
- Wedell-Wedellsborg Fond
- Familien Hede Nielsens Fond
- Jakob Madsen Fond

Budget

Budget (in Danish Kroner)	Funds
Income	1.236.000
Total Expenditures	1.131.000
Balance	105.000



CARG Team after the successful board meeting, café in Madrid



CARG Annual Report is published by the Cochrane Anaesthesia Review Group (CARG). It is distributed by CARG worldwide. CARG is a part of The Cochrane Collaboration (UK registered Charity No. 1045921) For more information about CARG's International Newsletter please contact us Tel: (0045) 35 45 73 24 • Fax: (0045) 35 45 74 54