

**THE COCHRANE
ANAESTHESIA
REVIEW GROUP**
Annual report 2007

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Rigshospitalet

Contents

Preface.....	3
The Cochrane Anaesthesia Review Group (CARG).....	4
CARG Editorial Office.....	4
CARG Editors	5
CARG Members.....	5
Publications in <i>The Cochrane Library</i> , 2007.....	5
Publishing agreement with Anesthesia and Analgesia (A&A).....	8
RevMan 5	8
Lectures, Conferences and Meetings.....	9
Lectures	9
Conferences and Meetings.....	9
CARG Articles.....	9
Cochrane Anaesthesia News.....	10
Website	10
Specialized Register (SR-ANAESTH).....	10
Handsearching	10
Consumer representation in CARG reviews.....	11
CARG's goals for 2008.....	11
Funders	11
Budget.....	11

Preface

Working with CARG in 2007 has been just as fruitful and fun as in previous years. As you can see from the graph on page six we have once again increased the number of published systematic reviews and protocols for systematic reviews. CARG has contributors from all over the world who have put a great deal of effort into producing systematic reviews of high scientific standard.

Let me once more take the opportunity to thank you all for the good work you have put into this review production. Without authors, editors, translators, consumers and everyone else, there would be no CARG. The work of CARG is important in ensuring that patients worldwide receive evidence-based treatments and health care. CARG's mission is to contribute to the best effective treatment and care of patients within the field of anaesthesia, intensive care and emergency medicine.

Last year CARG moved to the Panum Institute in Copenhagen. Being close to other research units such as the Nordic Cochrane Centre and the Copenhagen Trial Unit has been stimulating and will, I am sure, improve the quality of CARG publications.

Once again, CARG has been subject to changes in the editorial office.

Tom Pedersen chose to step down as Co-ordinating editor, due to his increasing workload as director of one of the largest medical centres at Rigshospitalet in Copenhagen. Fortunately, Tom will remain with the group and will act as treasurer and editorial advisor. Thank you very much, Tom, for the time and energy you have put into CARG so far and for staying with us.

Peter Choi has resigned as an editor, also due to increasing workload. Anne Roelsgaard has left the group to explore other issues and Nete Villebro has stopped working as a consumer representative. Thank you to all of them for all the work and enthusiasm they put into CARG.

Fortunately, we have a new person to welcome to the Group. Annette van Hauen has moved from another position to become part-time secretary with CARG. We look forward to working with you Annette.

Although CARG has been evolving throughout 2007, we still have some goals to fulfil. In 2007 we recruited two PhD students to join the group. We would like to welcome Arash Afshari from Denmark and Georgina Imberger from Australia, who are both medical doctors, working towards specializing in anaesthesia. Arash and Georgina will undertake scientific work for CARG in 2008.

Finally, I wish to thank our funders, our main funder "Region Hovedstaden" as well as the Danielsen Foundation, who have supported us in 2007.

Ann M. Møller

**Co-ordinating Editor
Copenhagen, February 2008**

The Cochrane Anaesthesia Review Group (CARG)

CARG conducts systematic reviews of randomized controlled trials (RCTs) and other controlled Clinical Trials (CCTs) of interventions evaluating outcomes in:

- Anaesthesia
- Perioperative medicine
- Intensive care medicine
- Emergency medicine
- Prehospital medicine
- Resuscitation

The Group avoids duplication of work by collaborating closely 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. The Cochrane Child Health Field provides peers for all reviews that include children. The Cochrane Anaesthesia Review Group is committed to collaborate on topics that are on the borderline between Groups, both in performing the reviews as well as in the editorial process. If a review potentially overlaps with another Cochrane Group, that Group is asked to contribute to the 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
Co-ordinating Editor

Jane Cracknell, RN, BA, MSc
Co-ordinator & Managing Editor

Karen Hovhannisyan, MD, MSc
Trials Search Co-ordinator

Annette van Hauen
Secretary

Tom Pedersen, MD, DMSc
Editorial advisor and treasurer



CARG Editors

- Jane Ballantyne, USA
- Michael Bennett, Australia
- John Carlisle, UK (Criticisms Editor)
- Martha Delgado, Colombia
- Harald Herkner, Austria
- Anna Lee, China
- Ann M. Møller, Denmark
- Nathan Pace, USA (Statistical Editor)
- Tom Pedersen, Denmark
- Nicola Petrucci, Italy
- Andrew Smith, UK
- Marialena Trivella, (Statistical Editor) UK
- Mathew Zacharias, New Zealand

CARG Members

CARG has a broad membership of individuals, many of whom are active and contribute to the work of the CARG 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 the CARG's rapid growth.

Publications in *The Cochrane Library*, 2007

New reviews

Bennett MH, Lehm JP, Mitchell SJ, Wasiak J. Recompression and adjunctive therapy for decompression illness. *Cochrane Database of Systematic Reviews* 2007, Issue 2. Art. No.: CD005277. DOI: 10.1002/14651858.CD005277.pub2

Davison M, Padroni S, Bunce C, Rüschen H. Sub-Tenon's anaesthesia versus topical anaesthesia for cataract surgery. *Cochrane Database of Systematic Reviews* 2007, Issue 3. Art. No.: CD006291. DOI: 10.1002/14651858.CD006291.pub2

Ezra DG, Allan BD. Topical anaesthesia alone versus topical anaesthesia with intracameral lidocaine for phacoemulsification. *Cochrane Database of Systematic Reviews* 2007, Issue 3. Art. No.: CD005276. DOI: 10.1002/14651858.CD005276.pub2

Hamilton HC, Foxcroft DR. Central venous access sites for the prevention of venous thrombosis, stenosis and infection in patients requiring long-term intravenous therapy. *Cochrane Database of Systematic Reviews* 2007, Issue 3. Art. No.: CD004084. DOI: 10.1002/14651858.CD004084.pub2

Martí-Carvajal A, Salanti G, Cardona AF. Human recombinant activated protein C for severe sepsis. *Cochrane Database of Systematic Reviews* 2008, Issue 1. Art. No.: CD004388. DOI: 10.1002/14651858.CD004388.pub3.

Punjasawadwong Y, Boonjeungmonkol N, Phongchiewboon A. Bispectral index for improving anaesthetic delivery and postoperative recovery. *Cochrane Database of*

Systematic Reviews 2007, Issue 4. Art. No.: CD003843. DOI: 10.1002/14651858.CD003843.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.

Subirana M, Solà I, Benito S. Closed tracheal suction systems versus open tracheal suction systems for mechanically ventilated adult patients. *Cochrane Database of Systematic Reviews* 2007, Issue 4. Art. No.: CD004581. DOI: 10.1002/14651858.CD004581.pub2

Wakai A, O'Sullivan RG, McCabe G. Simple aspiration versus intercostal tube drainage for primary spontaneous pneumothorax in adults. *Cochrane Database of Systematic Reviews* 2007, Issue 1. Art. No.: CD004479. DOI: 10.1002/14651858.CD004479.pub2

Updated and Conclusions Changed reviews

Petrucci N, Iacovelli W. Lung protective ventilation strategy for the acute respiratory distress syndrome. *Cochrane Database of Systematic Reviews* 2007, Issue 3. Art. No.: CD003844. DOI: 10.1002/14651858.CD003844.pub3

New protocols

Bassi A, Milani WR, El Dib RP, Atallah AN, Matos D. Intravenous versus inhalation anaesthesia for one-lung ventilation. (Protocol) *Cochrane Database of Systematic Reviews* 2007, Issue 1. Art. No.: CD006313. DOI: 10.1002/14651858.CD006313

Bilotta F, Gelb AW, Soriano S, Wang Q, Paoloni F, Rosa G. Pharmacologic therapies for perioperative cerebral protection against neurologic or neurocognitive deficits. (Protocol) *Cochrane Database of Systematic Reviews* 2007, Issue 2. Art. No.: CD006450. DOI: 10.1002/14651858.CD006450

Boonmak P, Boonmak S, Krisanaprakornkit W, Pattanittum P. High concentration versus low concentration sevoflurane for anaesthesia induction. (Protocol) *Cochrane Database of Systematic Reviews* 2007, Issue 4. Art. No.: CD006837. DOI: 10.1002/14651858.CD006837

Boonmak S, Boonmak P, Laopaiboon M. Deliberate hypotension with propofol under anaesthesia for functional endoscopic sinus surgery (FESS). (Protocol) *Cochrane Database of Systematic Reviews* 2007, Issue 3. Art. No.: CD006623. DOI: 10.1002/14651858.CD006623

Cordero Escobar I, Espinaco Valdés J, Gutierrez Rojas AR, Jimenez Paneca RE, Parisi López N. Nondepolarizing muscle relaxants for surgery in myasthenic patients. (Protocol) *Cochrane Database of Systematic Reviews* 2007, Issue 3. Art. No.: CD006582. DOI: 10.1002/14651858.CD006582

Cyna AM, Middleton P, Holt E. Non-pharmacological interventions for induction of anaesthesia in children. (Protocol) *Cochrane Database of Systematic Reviews* 2007, Issue 2. Art. No.: CD006447. DOI: 10.1002/14651858.CD006447

Hodgson CL, Bradley S, Davies AR, Holland AE, Keating JL, Smirneos L, Tuxen DV. Recruitment manoeuvres for adults receiving mechanical ventilation with acute lung

injury. (Protocol) *Cochrane Database of Systematic Reviews* 2007, Issue 3. Art. No.: CD006667. DOI: 10.1002/14651858.CD006667

Khalaiwi K, Al-Harbi F, Altamimi SA, Qashqari S. Anaesthesia for cardioversion. (Protocol) *Cochrane Database of Systematic Reviews* 2007, Issue 1. Art. No.: CD006326. DOI: 10.1002/14651858.CD006326

Milani WRO, Prado GFD, Saconato H, Antibas PL. Cooling for cerebral protection for brain surgery. (Protocol) *Cochrane Database of Systematic Reviews* 2007, Issue 3. Art. No.: CD006638. DOI: 10.1002/14651858.CD006638.

Shekh A, Shehata Y, Brown SGA, Simons FER. Adrenaline for the treatment of anaphylaxis with and without shock. (Protocol) *Cochrane Database of Systematic Reviews* 2007, Issue 1. Art. No.: CD006312. DOI: 10.1002/14651858.CD006312

St George G, Hussain S, Meechan JG, Moles DR, Needleman I. Injectable local anaesthetic agents for operative dental anaesthesia. (Protocol) *Cochrane Database of Systematic Reviews* 2007, Issue 2. Art. No.: CD006487. DOI: 10.1002/14651858.CD006487

Svircevic V, Passier M, Nierich AP, Kalkman CJ, van Dijk D, Van der Heijden G. Epidural analgesia for cardiac surgery. (Protocol) *Cochrane Database of Systematic Reviews* 2007, Issue 3. Art. No.: CD006715. DOI: 10.1002/14651858.CD006715

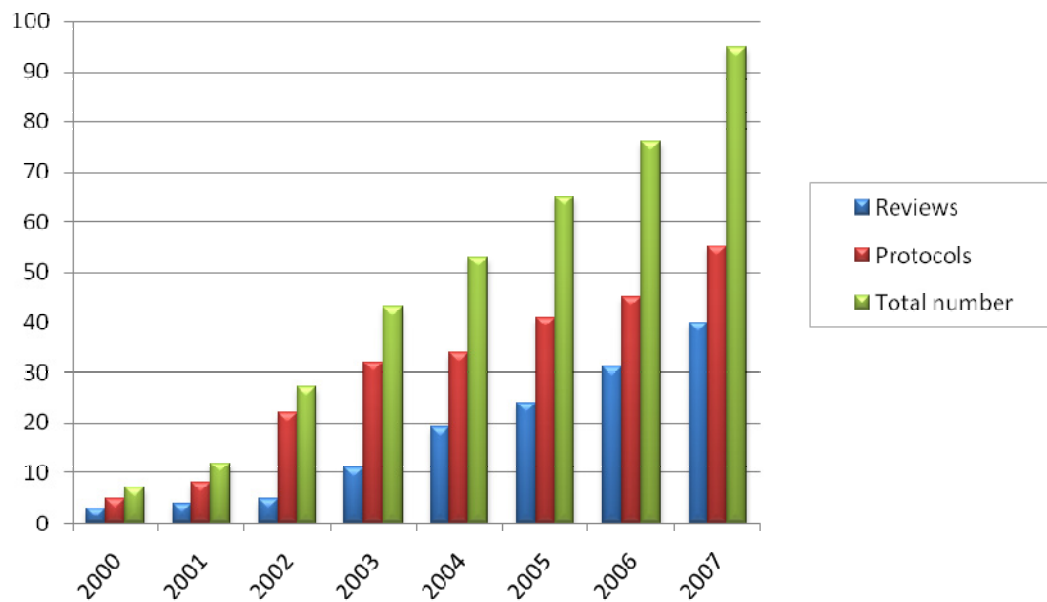
Szakmany T, Hauser B, Matejovic M, Radermacher P. N-acetylcysteine for sepsis and systemic inflammatory response in adults. (Protocol) *Cochrane Database of Systematic Reviews* 2007, Issue 3. Art. No.: CD006616. DOI: 10.1002/14651858.CD006616

Thackrey M, Arora P, Cepeda MS, Hudcova J, Schumann R. Adjusting the pH of lidocaine for reducing pain on injection. (Protocol) *Cochrane Database of Systematic Reviews* 2007, Issue 3. Art. No.: CD006581. DOI: 10.1002/14651858.CD006581
Torres D, Lacassie HJ, Baudoin J. Laryngeal mask airway versus endotracheal tube in laparoscopic gynaecological surgery in adults. (Protocol) *Cochrane Database of Systematic Reviews* 2007, Issue 2. Art. No.: CD006511. DOI: 10.1002/14651858.CD006511

Vidal L, Borok S, Gafter-Gvili A, Fraser A, Leibovici L, Paul M. Aminoglycosides as a single antibiotic versus other (non-aminoglycosides) antibiotics for the treatment of patients with infection. (Protocol) *Cochrane Database of Systematic Reviews* 2007, Issue 2. Art. No.: CD006485. DOI: 10.1002/14651858.CD006485

Walker KJ, McGrattan K, Aas-Eng K, Smith AF. Ultrasound guidance for peripheral nerve blockade. (Protocol) *Cochrane Database of Systematic Reviews* 2007, Issue 2. Art. No.: CD006459. DOI: 10.1002/14651858.CD006459.

Williams CECS, Ashley PF, Moles D, Parry J. Sedation versus general anaesthesia for provision of dental treatment in under 18 year olds. (Protocol) *Cochrane Database of Systematic Reviews* 2007, Issue 1. Art. No.: CD006334. DOI: 10.1002/14651858.CD006334



The Cochrane Anaesthesia Review Group's publication in *The Cochrane Library* 2000 to 2007
 Source: *The Cochrane Information Management System*

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 will be submitted to A&A. 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.)

RevMan 5

CARG is proud to be one of five Cochrane Review Groups (CRGs) piloting RevMan 5 from December 2007 to March 2008. The five Pilot CRGs (Acute Respiratory Infections, Anaesthesia, Methodology, Neonatal, and Pregnancy and Childbirth Group) will begin using RevMan 5 ahead of the official Cochrane Collaboration wide release of the software scheduled for March 2008.

RevMan 5 represents a major advance for the Collaboration's processes and output. It will be more user friendly, improve version control and allows authors to share their reviews more easily with their review team and editors. It is also designed to improve the quality of Cochrane reviews by reflecting advances in the methodology of Cochrane systematic reviews which helps to make the review process more transparent and review findings more accessible.

RevMan 5 will offer authors new features such as summary of findings and risk of bias tables, Tau-squared statistics etc.

We do not (as yet) require CARG authors to use all these new features. Authors should be encouraged to use them but it is not mandatory. We will expect all authors to use the new features from 2009.

Lectures, Conferences and Meetings

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

Lectures

- Prevention and surgery. Dansk Selskab for Dagkirurgi. Fredericia Messehall, 13.3.2007
- Getting Research into Practice. Møller AM The International Anesthesia Research Society (IARS). 81th Clinical and Scientific Congress. Orlando, Florida, USA 23-28 Marts 2007.
- Evidence based medicine and Clinical Practice Guidelines. Møller AM. SSAI 2007, Gothenburg.
- Perioperative Smoking Intervention. Møller AM. Der Hauptstadtkongress für Anästhesiologie und Intensivtherapie (HAI 2007). Berlin 13-15 September 2007.
- Getting research into practice. Møller AM. DASAIMs Årsmøde, København, november 2007.
- The impact of evidence-based medicine on health economics. Tom Pedersen. IARS 81th Clinical and Scientific Congress Orlando, USA, March 24, 2007.
- Benefits and Pitfalls in Evidence-based Medicine. Tom Pedersen Euroanaesthesia. The European Anaesthesiology Congress, Munich, Germany, June 9, 2007.

Conferences and Meetings

- Cochrane Continental European Entities Meeting in Oslo, May 2007
- Cochrane Diagnostic Reviews Training Meeting in Amsterdam, October 2007
- The International Anesthesia Research Society (IARS). 81th Clinical and Scientific Congress. Orlando, Florida, USA, 23-28 Marts 2007.
- 29th Annual meeting of the Scandinavian Society of Anaesthesia and Intensive Care (SSAI). Gothenburg, Sweden, 5-9 September 2007.
- Der Hauptstadtkongress für Anästhesiologie und Intensivtherapie (HAI 2007). Berlin, Germany, 13-15 September 2007.
- DASAIMs Annual meeting. København, Denmark, 8-10 November 2007.

CARG Articles

- Hove LD, Steinmetz J, Christoffersen JK, Møller AM, Nielsen J, Schmidt H. Analysis of Deaths Related to Anesthesia in the Period 1996-2004 from Closed

Claims Registered by the Danish Patient Insurance Association. *Anesthesiology* 2007; 106(4):675-680.

- Afshari A, Wetterslev J, Brok J, Møller AM. AT III in critically ill patients. A systematic review and meta-analysis. *BMJ*. 2007 Dec 15; 335 (7632): 1248-51.

Cochrane Anaesthesia News

Cochrane Anaesthesia News, the CARG Newsletter, is published annually. It is printed and distributed to CARG members and other interested parties worldwide. It is also published on the CARG website. In 2002 The Danish Royal Library acknowledged CARG News as a publication and the newsletter was conferred an ISSN number:

ISSN: 1602-6349

Keytitle: Cochrane Anaesthesia News

Website

The CARG new web site was launched in February 2006. The template for the Web site was provided by the Cochrane Collaboration.

The website www.carg.cochrane.org contains information about:

- The CARG editors and CARG editorial office
- The CARG activities
- 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 27,200 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@P.Central. We currently have three active handsearchers. We are looking for new handsearchers to help us increase our handsearch activities.

Consumer representation in CARG reviews

The Cochrane Consumer Network has been actively involved in commenting on CARG protocols and reviews. The goal of the consumer involvement is to clarify the results of the review in lay text.

CARG's goals for 2008

- To further disseminate the knowledge of evidence-based medicine within institutions and individuals.
- To initiate research in evidence-based medicine and anaesthesia by introducing two PhD students to the group.
- To publish a further 7 to 8 reviews and 15 protocols
- To continue to improve the editorial process, to further disseminate knowledge of evidence-based medicine with other organizations and individuals.
- To improve the involvement of developing countries.
- To improve our successful co-operation with *Anesthesia and Analgesia*.
- To recruit and involve more new consumers in the editorial process.
- To recruit and involve more handsearchers in CARG handsearching activities.
- To keep CARG reviews updated
- To offer a mentoring system for new editors.
- To continuously improve the quality and the clinical relevance of CARG reviews

Funders

- Region Hovedstaten
- Danielsen Foundation

Budget

Budget (in Danish Kroner)	Funds
Income RegionH	1.010.000
Private Funds	135.000
Total	1.145.000
Total Expenditures	903.481
Balance	241.519

