**Lunchtime Drop-in Sessions**

*All sessions last one hour*

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<td>Fri 26th</td>
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Contents

Updates ...................................................................................................................................................... 4
The Association of Anaesthetists of Great Britain and Ireland (AAGBI) ................................................. 4
NICE National Institute for Health and care Excellence ........................................................................... 4
The Cochrane Library of Systematic Reviews ....................................................................................... 5

Journals: Tables of Contents ..................................................................................................................... 5
Anaesthesia .............................................................................................................................................. 5
Anesthesia & Analgesia ............................................................................................................................ 6
May 2017; Volume 124, Issue 5 .............................................................................................................. 6
Anesthesiology ....................................................................................................................................... 9
June 2017; Volume 126, Issue 6 ............................................................................................................ 9
British Journal of Anaesthesia ............................................................................................................... 12
May 2017; Volume 118, Issue 5 ............................................................................................................ 12
Current Opinion in Anaesthesiology .................................................................................................... 13
June 2017; Volume 30, Issue 3 ............................................................................................................. 13

Latest Evidence: Database Articles ....................................................................................................... 16

Exercise: Study Design Timeframes ....................................................................................................... 27
The Library ............................................................................................................................................... 28

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Updates

The Association of Anaesthetists of Great Britain and Ireland (AAGBI)

Guidelines available on Anaesthesia early view

AAGBI safer pre-hospital anaesthesia 2017 >

Latest News

Study reveals how Lifebox pulse oximeters lead to patient safety improvement 25 April 2017

Joint professional guidance on the use of general anaesthesia in young children 18 April 2017

Taking revalidation forwards: improving the process of relicensing for doctors 13 April 2017

AAGBI response to The Long-term Sustainability of the NHS 05 April 2017

The AAGBI calls for a change to the culture around night shift working 16 March 2017

NICE National Institute for Health and care Excellence

Guidelines for the Provision of Emergency Anaesthesia 2017 [PDF] Source: Royal College of Anaesthetists - 08 March 2017

Effect of different types of anesthesia on intraoperative blood glucose of diabetic patients: A PRISMA-compliant systematic review and meta-analysis 01 March 2017

Effectiveness of active and passive warming for the prevention of inadvertent hypothermia in patients receiving neuraxial anaesthesia: A systematic review and meta-analysis of randomized controlled trials 01 May 2017

Investigating the Efficacy of Dexmedetomidine as an Adjuvant to Local Anesthesia in Brachial Plexus Block: A Systematic Review and Meta-Analysis of 18 Randomized Controlled Trials 01 March 2017

Comparison of periarticular anesthesia with liposomal bupivacaine with femoral nerve block for pain control after total knee arthroplasty: A PRISMA-compliant meta-analysis 01 March 2017

15.2 Local anaesthesia : British National Formulary - BNF - 09 May 2017

15.1 General anaesthesia : British National Formulary - BNF - 09 May 2017

15.2 Local anaesthesia : British National Formulary for Children - BNFc - 09 May 2017

15.1 General anaesthesia : British National Formulary for Children - BNFc - 09 May 2017

Drugs used for intravenous anaesthesia: British National Formulary - BNF - 09 May 2017
The Cochrane Library of Systematic Reviews

Higher versus lower inspiratory oxygen fraction or targets of arterial oxygenation for adult intensive care patients. Online Publication Date: April 2017

Needle gauge and tip designs for preventing post-dural puncture headache (PDPH). Online Publication Date: April 2017

Preventive opioids for postoperative pain. Online Publication Date: April 2017

Procalcitonin, C-reactive protein, and presepsin for the diagnosis of sepsis in adults and children. Online Publication Date: April 2017

Capnography versus standard monitoring for emergency department procedural sedation and analgesia. Online Publication Date: March 2017

Topical anaesthetics for pain control during repair of dermal laceration. Online Publication Date: February 2017

Journals: Tables of Contents

Click on the hyperlinked title (+ Ctrl) for contents. If you require any of the articles in full please email: library@uhbristol.nhs.uk

Anaesthesia
June 2017; Volume 72, Issue 6

Editorials

The effective introduction of Lifebox pulse oximetry to Malawi (pages 675–677)

Current practice for awake fibreoptic intubation - some unanswered questions (pages 678–681)

Should patients be advised not to drive for 4 days after isoflurane anaesthesia? (pages 682–685)

Original Articles

Lifebox pulse oximeter implementation in Malawi: evaluation of educational outcomes and impact on oxygen desaturation episodes during anaesthesia (pages 686–693)

A prospective cohort study of awake fibreoptic intubation practice at a tertiary centre (pages 694–703)

Long-term outcomes and cost effectiveness of high-dose dexamethasone for cardiac surgery: a randomised trial (pages 704–713)
A pilot study of ultrasound evaluation of gastric emptying in patients with end-stage renal failure: a comparison with healthy controls (pages 714–718)

Evaluation of a flexible bronchoscope prototype designed for bronchoscopy during mechanical ventilation: a proof-of-concept study (pages 719–728)

A randomised trial of peri-operative positive airway pressure for postoperative delirium in patients at risk for obstructive sleep apnoea after regional anaesthesia with sedation or general anaesthesia for joint arthroplasty (pages 729–736)

Pain Assessment in INTensive care (PAINT): an observational study of physician-documented pain assessment in 45 intensive care units in the United Kingdom (pages 737–748)

Flow characteristics of Luer and non-Luer spinal needles (pages 749–754)

A national survey of neurological monitoring practice after obstetric regional anaesthesia in the UK (pages 755–759)

The accuracy of timed maximum local anaesthetic dose calculations with an electronic calculator, nomogram, and pen and paper (pages 760–764)

Review Article

Rocuronium vs. succinylcholine for rapid sequence intubation: a Cochrane systematic review (pages 765–777) ☛ CPD available at http://www.learnataagbi.org Abstract

Statistically Speaking: methodological madness

Inter-rater agreement–Agreeing to disagree, again! (pages 778–780)

Case Report

Intra-oral ignition of monopolar diathermy during transnasal humidified rapid-insufflation ventilatory exchange (THRIVE) (pages 781–783)

Anesthesia & Analgesia

May 2017; Volume 124, Issue 5

Infographics

Tipping the Scales for Cancer Surgery Outcomes: Anesthetic Influences on Cancer Progression

Personalized Intrathecal Drug Delivery: Models, Targets, and Approaches

Editorial

Can the Perioperative Anesthesia Care of Patients With Cancer Affect Their Long-term Oncological Outcomes?

Plasma Transfusion as Bleeding Prophylaxis in the Critically Ill

The PLAIN Truth: Caring for the Amish: What Every Anesthesiologist Should Know
Neuraxial Labor Analgesia: Does It Influence the Outcomes of Labor?

Anesthesiology and New Models of Perioperative Care: What Will Help Move the Needle?

Women, Minorities, and Leadership in Anesthesiology: Take the Pledge

The Law of Unintended Consequences Can Never Be Repealed: The Hazards of Random Urine Drug Screening of Anesthesia Providers

Neuromuscular Monitoring as the Art of Probability

Modeling Spinal Intrathecal Drug Distribution: The Challenge of Defining and Predicting Cerebrospinal Fluid Dynamics

Surveying the Literature

Surveying the Literature: Synopsis of Recent Key Publications

Cardiovascular Anesthesiology

Perioperative Care of the Patient With the Total Artificial Heart

Creation and Validation of an Automated Algorithm to Determine Postoperative Ventilator Requirements After Cardiac Surgery

Hemostasis

Recombinant Factor VIIa Is Associated With Increased Thrombotic Complications in Pediatric Cardiac Surgery Patients

Perioperative Echocardiography and Cardiovascular Education

Sinus of Valsalva Aneurysm Rupture Misdiagnosed as a Ventricular Septal Defect

Generative Retrieval Improves Learning and Retention of Cardiac Anatomy Using Transesophageal Echocardiography

Ambulatory Anesthesiology and Perioperative Management

Succinylcholine for Emergency Airway Rescue in Class B Ambulatory Facilities: The Society for Ambulatory Anesthesia Position Statement

The Effect of Implementation of Preoperative and Postoperative Care Elements of a Perioperative Surgical Home Model on Outcomes in Patients Undergoing Hip Arthroplasty or Knee...

Topical Ropivacaine in Prevention of Post-Tonsillectomy Pain in Adults

Anesthetic Clinical Pharmacology

The Effect of Deep Versus Moderate Neuromuscular Block on Surgical Conditions and Postoperative Respiratory Function in Bariatric Laparoscopic Surgery: A Randomized, Double Blind...


Preclinical Pharmacology

Inhaled Remimazolam Potentiates Inhaled Remifentanil in Rodents
Technology, Computing, and Simulation

Drug Infusion Systems: Technologies, Performance, and Pitfalls

Higher Fresh Gas Flow Rates Decrease Tidal Volume During Pressure Control Ventilation

Patient Safety

Development of a Pediatric Risk Assessment Score to Predict Perioperative Mortality in Children Undergoing Noncardiac Surgery

In Brief

A Predictive Model for Extended Postanesthesia Care Unit Length of Stay in Outpatient Surgeries

Abstract

Caring for the Amish: What Every Anesthesiologist Should Know

Critical Care and Resuscitation

Systematic Quality Assessment of Published Antishivering Protocols

Posttransfusion Increase of Hematocrit per se Does Not Improve Circulatory Oxygen Delivery due to Increased Blood Viscosity

Sevoflurane Posttreatment Attenuates Lung Injury Induced by Oleic Acid in Dogs

Trauma

How Long Is Too Long? The Prespiked Intravenous Debate

Obstetric Anesthesiology

Effects of Epidural Labor Analgesia With Low Concentrations of Local Anesthetics on Obstetric Outcomes: A Systematic Review and Meta-analysis of Randomized Controlled Trials

A Role for Adrenergic Receptors in the Uterotonic Effects of Ergometrine in Isolated Human Term Nonlaboring Myometrium

Pediatric Anesthesiology

Blood Bupivacaine Concentrations After a Combined Single-Shot Sciatic Block and a Continuous Femoral Nerve Block in Pediatric Patients: A Prospective Observational Study

A High Preoperative Pain and Symptom Profile Predicts Worse Pain Outcomes for Children After Spine Fusion Surgery

The Effect of Sedation on Cortical Activation: A Randomized Study Comparing the Effects of Sedation With Midazolam, Propofol, and Dexmedetomidine on Auditory Processing

Healthcare Economics, Policy, and Organization

Diversity in the American Society of Anesthesiologists Leadership

Assessing the Impact of the Anesthesia Medication Template on Medication Errors During Anesthesia: A Prospective Study
Respiration and Sleep Medicine

Sleep-Disordered Breathing, Postoperative Delirium, and Cognitive Impairment

Blood Management

Prophylactic Plasma Transfusion Is Not Associated With Decreased Red Blood Cell Requirements in Critically Ill Patients

Predictive Modeling of Massive Transfusion Requirements During Liver Transplantation and Its Potential to Reduce Utilization of Blood Bank Resources

Geriatric Anesthesia

The Association of Frailty With Outcomes and Resource Use After Emergency General Surgery: A Population-Based Cohort Study

Medical Education

Anesthesiologists and Disaster Medicine: A Needs Assessment for Education and Training and Reported Willingness to Respond

Regional Anesthesia and Acute Pain Medicine

Relationship Between Central Obesity and Spread of Spinal Anesthesia in Female Patients

Total Spinal Anesthesia Failure: Have You Assessed the Sensory Anesthesia in Sacral Dermatomes?

Chronic Pain Medicine

Assessing the Agreement Between Radiologic and Clinical Measurements of Lumbar and Cervical Epidural Depths in Patients Undergoing Prone Interlaminar Epidural Steroid Injection

Computational and In Vitro Experimental Investigation of Intrathecal Drug Distribution: Parametric Study of the Effect of Injection Volume, Cerebrospinal Fluid Pulsatility, and...

Pain and Analgesic Mechanisms

Perioperative Anesthesia Care and Tumor Progression

General Articles

In the Beginning—There Is the Introduction—and Your Study Hypothesis

The Open Mind

The Need for Mandatory Random Drug Testing in Anesthesia Providers

It Takes a Village to Deliver Effective and Efficient Care: Team-Based Performance

Anesthesiology

June 2017; Volume 126, Issue 6
This Month in: Anesthesiology

Science, Medicine, and the Anesthesiologist

Infographics in Anesthesiology

To Move, or Not to Move: Accelerating PACU Flow After Spinal Anesthetics

Anesthesiology CME Program

Instructions for Obtaining Anesthesiology Continuing Medical Education (CME) Credit

Editorial Views

In Memoriam: Jean Mantz, 1960 to 2017

Remifentanil Dosing at Extremes of Body Weight

Lost in Translation: The 2016 John W. Severinghaus Lecture on Translational Research

Perioperative Medicine Clinical Science

An Allometric Model of Remifentanil Pharmacokinetics and Pharmacodynamics

Anesthesiology Reflections from the Wood Library-Museum

Two Cents’ Worth from “Pain Killer” Makers Perry Davis & Son

Perioperative Medicine Clinical Science

Disposition of Remifentanil in Obesity: A New Pharmacokinetic Model Incorporating the Influence of Body Mass

Effect of Dexmedetomidine and Propofol on Basal Ganglia Activity in Parkinson Disease: A Controlled Clinical Trial

Anesthesiology Reflections from the Wood Library-Museum

Extending the Anesthetic Duration of Nitrous Oxide with Valerian, an Herbal Sedative

Perioperative Medicine Clinical Science

Safety Aspects of Postanesthesia Care Unit Discharge without Motor Function Assessment after Spinal Anesthesia: A Randomized, Multicenter, Semiblinded, Noninferiority, Controlled Trial

Risk of Epidural Hematoma after Neuraxial Techniques in Thrombocytopenic Parturients: A Report from the Multicenter Perioperative Outcomes Group

Anesthesiology Reflections from the Wood Library-Museum

Tolling the Bell-cap-sic Bell Against Pain: A Belladonna, Capsaicin, and Aconite Plaster

Perioperative Medicine Clinical Science

Brachial Arterial Pressure Monitoring during Cardiac Surgery Rarely Causes Complications

Anesthesiology Reflections from the Wood Library-Museum
Nitrous Oxide from a Peach of a Specialist: J. Warren Worcester, M.D.

Perioperative Medicine Basic Science

Growth Arrest and DNA-damage-inducible Protein 45β-mediated DNA Demethylation of Voltage-dependent T-type Calcium Channel 3.2 Subunit Enhances Neuropathic Alldynia after Nerve Injury in rats

Effect of Thoracic Epidural Anesthesia on Ventricular Excitability in a Porcine Model

Anesthesiology Reflections from the Wood Library-Museum

Kadavy’s “Kan Klamp”: Alliteration and Economy from an “Ether-can Attachment Dropper”

Critical Care Medicine Clinical Science

Prevalence and Impact on Weaning of Pleural Effusion at the Time of Liberation from Mechanical Ventilation: A Multicenter Prospective Observational Study

Clinical Judgment Is Not Reliable for Reducing Whole-body Computed Tomography Scanning after Isolated High-energy Blunt Trauma

Critical Care Medicine Basic Science

Up-regulation of Intracellular Calcium Handling Underlies the Recovery of Endotoxemic Cardiomyopathy in Mice

Pain Medicine Clinical Science

A Three-arm Randomized Clinical Trial Comparing Continuous Femoral Plus Single-injection Sciatic Peripheral Nerve Blocks versus Periarticular Injection with Ropivacaine or Liposomal Bupiv...

Pain Medicine Basic Science

Oral Application of Magnesium-l-Threonate Attenuates Vincristine-induced Allodynia and Hyperalgesia by Normalization of Tumor Necrosis Factor-α/Nuclear Factor-κB Signaling

Education Images in Anesthesiology

Images in Anesthesiology: Anomalous Single Coronary Artery from the Pulmonary Artery

Carotid Body Paraganglioma: A Rare Tumor with Serious Anesthetic Challenges

Education

Effectiveness of Written and Oral Specialty Certification Examinations to Predict Actions against the Medical Licenses of Anesthesiologists

Education Clinical Concepts and Commentary

To Stop or Not, That Is the Question: Acute Pain Management for the Patient on Chronic Buprenorphine

Education Review Article

Cerebral Autoregulation-oriented Therapy at the Bedside: A Comprehensive Review

Education Mind to Mind
Our Grief and Loss: The Hazards of Caring for Critically Ill Children

British Journal of Anaesthesia

May 2017; Volume 118, Issue 5

Editorials

Volatile anaesthetics and organ protection in kidney transplantation: finally, a randomized controlled trial!

‘Failed supraglottic airway’: an algorithm for suboptimally placed supraglottic airway devices based on videolaryngoscopy

Critical airways, critical language

Engaging in risky business: is it time to rethink risk tolerance in anaesthesia?

It’s not about the bike: enhancing oxygen delivery

Review Articles

Efficacy and safety of inhaled anaesthetic for postoperative sedation during mechanical ventilation in adult cardiac surgery patients: a systematic review and meta-analysis

Drug safety in paediatric anaesthesia

Neural network imaging to characterize brain injury in cardiac procedures: the emerging utility of connectomics

Cardiovascular

Randomized trial of red cell washing for the prevention of transfusion-associated organ injury in cardiac surgery

Comparison of preoperative and intraoperative assessment of aortic stenosis severity by echocardiography

Pharmacokinetic/pharmacodynamic model for unfractionated heparin dosing during cardiopulmonary bypass

Clinical Practice

Altered preoperative coagulation and fibrinolysis are associated with myocardial injury after non-cardiac surgery

Propofol-based anaesthesia versus sevoflurane-based anaesthesia for living donor kidney transplantation: results of the VAPOR-1 randomized controlled trial

Measuring the anaesthesia clinical learning environment at the department level is feasible and reliable
Total haemoglobin mass, but not haemoglobin concentration, is associated with preoperative cardiopulmonary exercise testing-derived oxygen-consumption variables

Neurosciences And Neuroanaesthesia

Burst-suppression ratio underestimates absolute duration of electroencephalogram suppression compared with visual analysis of intraoperative electroencephalogram

Obstetrics

Patient choice compared with no choice of intrathecal morphine dose for caesarean analgesia: a randomized clinical trial

Efficacy and safety of carbetocin given as an intravenous bolus compared with short infusion for Caesarean section - double-blind, double-dummy, randomized controlled non-inferiority trial

Paediatrics

Effect of caudal block using different volumes of local anaesthetic on optic nerve sheath diameter in children: a prospective, randomized trial

Early or late fresh frozen plasma administration in newborns and small infants undergoing cardiac surgery: the APPEAR randomized trial

Current Opinion in Anaesthesiology

June 2017; Volume 30, Issue 3

Editorial introductions

Obstetric And Gynecological Anesthesia

Quality maternal care: a call for anesthesia leadership and collaboration

Working toward quality in obstetric anesthesia: a business approach

Safety interventions on the labor and delivery unit

Strategies to reduce blood product utilization in obstetric practice

Current applications of big data in obstetric anesthesiology

The use of ultrasound in obstetric anesthesia

Training future anesthesiologists in obstetric care

The use of vasopressors during spinal anaesthesia for caesarean section

Clinical ‘pearls’ of maternal critical care Part 2: sickle-cell disease in pregnancy

Optimizing patients undergoing surgery (OPUS): Part II - still a matter of ‘eminence-based medicine’?

Pediatric Anesthesia

Update in pediatric anesthesiology
Update on developmental anesthesia neurotoxicity

Anesthesia and concussion

Codeine and opioid metabolism: implications and alternatives for pediatric pain management

Pediatric sleep-disordered breathing: an update on diagnostic testing

An update on the perioperative management of children with upper respiratory tract infections

The implications of immunization in the daily practice of pediatric anesthesia

The American College of Surgeons Children’s Surgery Verification and Quality Improvement Program: implications for anesthesiologists

Making the pediatric perioperative surgical home come to life by leveraging existing health information technology
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1. Comparative Evaluation of Anesthetic Efficacy of 2% Lidocaine, 4% Articaine, and 0.5% Bupivacaaine on Inferior Alveolar Nerve Block in Patients with Symptomatic Irreversible Pulpitis: A Prospective, Randomized, Double-blind Clinical Trial.

**Author(s):** Aggarwal, Vivek; Singla, Mamta; Miglani, Sanjay

**Source:** Journal of oral & facial pain and headache; vol. 31 (no. 2); p. 124-128

**Abstract:** AIMSTo compare the anesthetic efficacy of 1.8 mL of 2% lidocaine with 1:200,000 epinephrine, 4% articaine with 1:100,000 epinephrine, and 0.5% bupivacaaine with 1:200,000 epinephrine on producing inferior alveolar nerve block (IANB) in patients with symptomatic irreversible pulpitis [abstract edited]

2. Comparison of periarticular anesthesia with liposomal bupivacaine with femoral nerve block for pain control after total knee arthroplasty: A PRISMA-compliant meta-analysis

**Author(s):** Liu S.-Q.; Chen X.; Yu C.-C.; Weng C.-W.; Wu Y.-Q.; Xiong J.-C.; Xu S.-H.

**Source:** Medicine (United States); 2017; vol. 96 (no. 13)

**Abstract:** Background: Periarticular anesthesia (PAI) with liposomal bupivacaine (LB) and femoral nerve block (FNB) were 2 common type of pain management after total knee arthroplasty (TKA). There is no consensus about PAI with LB shows better clinical outcome than FNB. Thus, we performed a systematic review and meta-analysis to compare the efficacy and safety of PAI with LB and FNB for patients prepared for TK. [abstract edited]

3. Effect of different types of anesthesia on intraoperative blood glucose of diabetic patients: A PRISMA-compliant systematic review and meta-analysis

**Author(s):** Li X.; Wang J.; Chen K.; Li Y.; Wang H.; Mu Y.; Chen Y.

**Source:** Medicine (United States); 2017; vol. 96 (no. 13)

**Abstract:** Background: Systematic review which analyzes the impact of different anesthesia on intraoperative blood glucose levels of diabetes patients. [abstract edited]

4. A Flawed Meta-analysis? Similar Risk of Cardiopulmonary Adverse Events Between Propofol and Traditional Anesthesia for Gastrointestinal Endoscopy

**Author(s):** Hoaglin D.C.

**Source:** Clinical Gastroenterology and Hepatology; 2017

5. Midazolam vs. Meperidine plus Bupivacaine as spinal anaesthesia in woman undergoing caesarean surgery: Clinical trial study

**Author(s):** Zakeri H.; Rajabi M.; Hosseinpour A.; Badpa M.; Abdollahi M.; Salehi S.

**Source:** Biomedical Research (India); 2017; vol. 28 (no. 6); p. 2768-2772
Abstract: Background: The rate of caesarean section has risen from less than 7% in 1970s to more than 25% in 2003. Objective: Due to the side effects of caesarean operation as well as the vital cares needed in this procedure, the raise in the ratio has expressed the technique as a matter of global concern. [abstract edited]

6. Dexmedetomidine prevent postoperative nausea and vomiting on patients during general anesthesia: A PRISMA-compliant meta analysis of randomized controlled trials
Author(s): Jin S.; Liang D.D.; Chen C.; Zhang M.; Wang J.
Source: Medicine (United States); 2017; vol. 96 (no. 1)
Abstract: Background: Postoperative nausea and vomiting (PONV) is a frequent complication in postoperative period. The aim of this article was to evaluate the effect of dexmedetomidine on PONV. [abstract edited]

7. The effects of intravenous dexmedetomidine injections on IOP in general anesthesia intubation: A meta-analysis
Author(s): Zhou C.; Liu Z.; Ruan L.; Zhu Y.
Source: BioMed Research International; 2017; vol. 2017
Available in full text at BioMed Research International - from EBSCOhost
Abstract Objective. The aim of this meta-analysis is to evaluate the effects of dexmedetomidine on intraocular pressure (IOP) in patients with general anesthesia administered via intubation [abstract edited]

8. Cervical plexus anesthesia versus general anesthesia for anterior cervical discectomy and fusion surgery: A randomized clinical trial
Author(s): Wang H.; Ma L.; Yang D.; Wang T.; Ding W.; Wang Q.; Zhang L.
Source: Medicine (United States); 2017; vol. 96 (no. 7)
Abstract: Both general anesthesia (GA) and cervical plexus anesthesia (CPA) can be used for anterior cervical discectomy and fusion (ACDF) surgery. The aim of this study was to evaluate the influence of anesthetic techniques on perioperative mortality and morbidity in patients undergoing cervical surgery. [abstract edited]

9. Comparison of the pro-postoperative analgesia of intraoperative dexmedetomidine with and without loading dose following general anesthesia: A prospective, randomized, controlled clinical trial
Author(s): Fan W.; Zhang J.; Li G.; Zheng Y.; Liu Y.; Yang H.; Sun Y.
Source: Medicine (United States); 2017; vol. 96 (no. 7)
Abstract: Intraoperative dexemdetomidine (DEX) with or without loading dose is well-established to improve postoperative pain control in patient-controlled analgesia (PCA). This study was designed to compare the pro-analgesia effect between the 2 in patients received general anesthesia [abstract edited]
10. Effect of conscious sedation versus general anesthesia on early neurological improvement among patients with ischemic stroke undergoing endovascular thrombectomy: A randomized clinical trial

Author(s): Schoenenberger S.; Uhlmann L.; Hacke W.; Schieber S.; Mundiyapurath S.; Purrucker J.C.; Nagel S.; Klose C.; Pfaff J.; Bendszus M.; Ringleb P.A.; Kieser M.; Mohlenbruch M.A.; Bosen J.

Source: Journal of Neurosurgical Anesthesiology; 2017; vol. 29 (no. 2); p. 178

11. Investigating the efficacy of dexmedetomidine as an adjuvant to local anesthesia in brachial plexus block: a systematic review and meta-analysis of 18 randomized controlled trials

Author(s): Hussain N.; Grzywacz V.P.; Ferreri C.A.; Atrey A.; Banfield L.; Shaparin N.; Vydyanathan A.

Source: Regional Anesthesia and Pain Medicine; 2017; vol. 42 (no. 2); p. 184-196

Abstract: Background and Objectives: Dexmedetomidine has been thought to be an effective adjuvant to local anesthetics in brachial plexus blockade. We sought to clarify the uncertainty that still exists as to its true efficacy. [abstract edited]

12. The comparison of etomidate and propofol anesthesia in patients undergoing gastrointestinal endoscopy: A systematic review and meta-analysis

Author(s): Ye L.; Xiao X.; Zhu L.

Source: Surgical Laparoscopy, Endoscopy and Percutaneous Techniques; 2017; vol. 27 (no. 1); p. 1-7

Abstract: Introduction: Etomidate and propofol played an important role in the sedation of patients undergoing gastrointestinal endoscopy. We conducted a systematic review and meta-analysis to compare their efficacy and safety.[abstract edited]


Author(s): Sadeghi, Afsaneh; Khaleghnejad Tabari, Ahmad; Mahdavi, Alireza; Salarian, Sara; Razavi, Seyyed Sajjad

Source: Neuropsychiatric disease and treatment; 2017; vol. 12; p. 3237-3241

Available in full text at Neuropsychiatric Disease and Treatment - from National Library of Medicine

Abstract: INTRODUCTION Anesthesia induction is a stressful event for children and their parents, and may have potentially harmful consequences on the patient's physiological and mental situation. Stressful anesthesia induction has psychological adverse effects that recur with repeated anesthesia, can lead to increased pediatric discomfort during the recovery period, and may even induce reactionary postoperative behavior. A randomized controlled trial was performed to assess the impact of parental presence during induction of anesthesia (PPIA) on preoperative anxiety of pediatric patients and their parents at three
different times, cooperation of child with anesthesiologist at induction of anesthesia, and parental satisfaction. [abstract edited]

14. Benefit of general anesthesia monitored by bispectral index compared with monitoring guided only by clinical parameters. Systematic review and meta-analysis.  
**Author(s):** Oliveira, Carlos Rogério Degrandi; Bernardo, Wanderley Marques; Nunes, Victor Moisés  
**Source:** Brazilian journal of anesthesiology (Elsevier); 2017; vol. 67 (no. 1); p. 72-84  
**Abstract:** BACKGROUND The bispectral index parameter is used to guide the titration of general anesthesia; however, many studies have shown conflicting results regarding the benefits of bispectral index monitoring. The objective of this systematic review with meta-analysis is to evaluate the clinical impact of monitoring with the bispectral index parameter. [abstract edited]

**Author(s):** Amorim, Marco Aurélio Soares; Govêia, Catia Sousa; Magalhães, Edno; Ladeira, Luís Cláudio Araújo; Moreira, Larissa Govêia; Miranda, Denismar Borges de  
**Source:** Brazilian journal of anesthesiology (Elsevier); 2017; vol. 67 (no. 2); p. 193-198  
**Abstract:** BACKGROUND AND OBJECTIVES Sevoflurane is often used in pediatric anesthesia and is associated with high incidence of psychomotor agitation. In such cases, dexmedetomidine (DEX) has been used, but its benefit and implications remain uncertain. We assessed the effects of DEX on agitation in children undergoing general anesthesia with sevoflurane. [abstract edited]

16. Efficacy of prophylactic doses of intravenous nitroglycerin in preventing myocardial ischemia under general anesthesia: A systematic review and meta-analysis with trial sequential analysis  
**Author(s):** Hoshijima H.; Takeuchi R.; Mieda T.; Iwase Y.; Nagasaka H.; Denawa Y.; Mihara T.; Kuratani N.; Shiga T.; Wajima Z.  
**Source:** Journal of Clinical Anesthesia; Aug 2017; vol. 40 ; p. 16-22  
**Abstract:** Study Objective To evaluate the efficacy of intravenous nitroglycerin (TNG) in preventing intraoperative myocardial ischemia (MI) under general anesthesia. Moreover, we analyzed the hemodynamic changes in heart rate (HR), mean blood pressure (MBP), and pulmonary capillary wedge pressure (PCWP) associated with TNG administration both before and after the induction of anesthesia. [abstract edited]

17. Influence of the perioperative administration of magnesium sulfate on the total dose of anesthetics during general anesthesia. A systematic review and meta-analysis  
**Author(s):** Rodriguez-Rubio L.; del Pozo J.S.G.; Jordan J.; Nava E.  
**Source:** Journal of Clinical Anesthesia; Jun 2017; vol. 39 ; p. 129-138
Abstract: Background Magnesium sulfate displays numerous characteristics that make it a useful drug in anesthesiology (N-methyl-D-aspartate receptor antagonist, vasodilator, antiarrhythmic, inhibitor of catecholamine release and of acetylcholine in the terminal motor plate). The perioperative use of this drug as an adjuvant capable of decreasing the required dose of anesthetics, has been proposed. Objectives To assess the influence of intravenous magnesium sulfate administration during general anesthesia on the overall dose of required anesthetics. [abstract edited]

18. The effect of desflurane versus propofol anesthesia on postoperative delirium in elderly obese patients undergoing total knee replacement: A randomized, controlled, double-blinded clinical trial
Author(s): Tanaka P.; Lemmens H.J.; Goodman S.; Maloney W.; Huddleston J.; Sommer B.R.
Source: Journal of Clinical Anesthesia; Jun 2017; vol. 39; p. 17-22
Abstract: Study objective The goal of this study was to investigate the incidence of delirium, wake-up times and early post-operative cognitive decline in one hundred obese elderly patients undergoing total knee arthroplasty. [abstract edited]

Author(s): Zorrilla-Vaca, Andres; Healy, Ryan J; Wu, Christopher L; Grant, Michael C
Source: Canadian journal of anaesthesia = Journal canadien d’anesthesie; Jun 2017; vol. 64 (no. 6); p. 597-607
Abstract: INTRODUCTION The association between anesthesia depth and mortality is still controversial. There are a number of narrative reviews on this topic that affirm this association, but their conclusions were based only on qualitative analyses. The aim of this meta-analysis of observational studies was to examine the potential association between depth of anesthesia as a low bispectral index (BIS) and mortality using appropriate quantitative methods. [abstract edited]

20. Anaesthesia for electroconvulsive therapy - new tricks for old drugs: a systematic review
Author(s): Stripp T.K.; Olsen N.V.; Jorgensen M.B.
Source: Acta Neuropsychiatrica; May 2017; p. 1-9
Abstract: Objective: The objective of this review is to investigate existing literature in order to delineate whether the use of anaesthesia and timing of seizure induction in a new and optimised way may improve the efficacy of electroconvulsive therapy (ECT). [abstract edited]

21. Commentary on "Regional Versus Local Anaesthesia for Haemodialysis Arteriovenous Fistula Formation: A Systematic Review and Meta-analysis"
Author(s): Tordoir J.H.M.
22. Regional Versus Local Anaesthesia for Haemodialysis Arteriovenous Fistula Formation: A Systematic Review and Meta-Analysis

**Author(s):** Cerneviciute R.; Sahebally S.M.; Ahmed K.; Murphy M.; Mahmood W.; Walsh S.R.

**Source:** European Journal of Vascular and Endovascular Surgery; May 2017; vol. 53 (no. 5); p. 734-742

**Abstract:** Background Arteriovenous fistula (AVF) formation is the most common vascular access procedure for patients requiring haemodialysis. However, it is associated with high failure rates, influenced by vessel diameter and arterial inflow. Mode of anaesthesia may affect these factors, and subsequently AVF maturation rates. Objective To perform a systematic review and meta-analysis to assess the effect of anaesthesia type for autologous primary radiocephalic or brachiocephalic AVF creation on subsequent fistula failure rates. [abstract edited]

23. The application of three-dimensional printing technology in anaesthesia: a systematic review

**Author(s):** Chao I.; Rachbuch C.; Young J.; Coles-Black J.; Chuen J.; Weinberg L.

**Source:** Anaesthesia; May 2017; vol. 72 (no. 5); p. 641-650

**Abstract:** Three-dimensional printing has rapidly become an easily accessible, innovative and versatile technology, with a vast range of applications across a wide range of industries. There has been a recent emergence in the scientific literature relating to its potential application across a multitude of fields within medicine and surgery; however, its use within anaesthesia has yet to be formally explored. [abstract edited]

24. Monitoring the end-tidal concentration of sevoflurane for preventing awareness during anesthesia (MEETS-PANDA): A prospective clinical trial

**Author(s):** Wang J.; Zhang L.; Huang Q.; Wu G.; Weng X.; Lai Z.; Lin P.

**Source:** International Journal of Surgery; May 2017; vol. 41 ; p. 44-49

**Abstract:** Objective It was hypothesized that monitoring end-tidal sevoflurane (ETS) during endoscopic surgery could reduce the incidence of intraoperative awareness in patients undergoing general anesthesia. Herein, the incidence of intraoperative awareness and other correlative factors was recorded and compared. [abstract edited]

25. What is the place of clonidine in anesthesia? Systematic review and meta-analyses of randomized controlled trials

**Author(s):** Sanchez Munoz M.C.; De Kock M.; Forget P.

**Source:** Journal of Clinical Anesthesia; May 2017; vol. 38 ; p. 140-153

**Abstract:** Study objective A place for clonidine has been suggested for many indications in perioperative medicine. The aim of this systematic review and these meta-analyses is to
systematically, and quantitatively, evaluate these potential indications of clonidine.

[abstract edited]

26. Effectiveness of active and passive warming for the prevention of inadvertent hypothermia in patients receiving neuraxial anesthesia: A systematic review and meta-analysis of randomized controlled trials

Author(s): Shaw C.A.; Steelman V.M.; DeBerg J.; Schweizer M.L.
Source: Journal of Clinical Anesthesia; May 2017; vol. 38 ; p. 93-104
Abstract:Objective Perioperative hypothermia is a common complication of anesthesia that can result in negative outcomes. The purpose of this review is to answer the question: Does the type of warming intervention influence the frequency or severity of inadvertent perioperative hypothermia (IPH) in surgical patients receiving neuraxial anesthesia? [abstract edited]

27. Effects of nimodipine on postoperative delirium in elderly under general anesthesia: A prospective, randomized, controlled clinical trial.

Author(s): Li, Ya-Nan; Zhang, Qi; Yin, Chun-Ping; Guo, Yang-Yang; Huo, Shu-Ping; Wang, Liang; Wang, Qiu-Jun
Source: Medicine; May 2017; vol. 96 (no. 19); p. e6849
Abstract:Nimodipine is a clinical commonly used calcium antagonist can lowering the apoptosis rate of hippocampal neuron to reduce the incidence of postoperative cognitive dysfunction (POCD). This study was designed to evaluate the effects of nimodipine on postoperative delirium in elderly under general anesthesia.[abstract edited]

28. Regional versus local anesthesia for arteriovenous fistula creation in end-stage renal disease: a systematic review and meta-analysis.

Author(s): Ismail, Ammar; Ibrahim Abushouk, Abdelrahman; Bekhet, Amira H; Abunar, Osama; Hassan, Omar; Khamis, Ahmed A; Al-Sayed, Mohamed; Elgebaly, Ahmed
Source: The journal of vascular access; May 2017 ; p. 0
Available in full text at Journal of Vascular Access - from EBSCOhost
Abstract:There is a consensus in the literature that regional anesthesia (RA) improves local hemodynamic parameters in comparison to local anesthesia (LA) during arteriovenous fistula (AVF) surgical construction. However, the effects of both techniques on fistula patency and failure rates are still controversial. The aim of this meta-analysis is to synthesize evidence from published randomized trials and observational studies regarding the safety and efficacy of RA versus LA in AVF surgical construction. [abstract edited]

29. Effects of Epidural Labor Analgesia With Low Concentrations of Local Anesthetics on Obstetric Outcomes: A Systematic Review and Meta-analysis of Randomized Controlled Trials.

Author(s): Wang, Ting-Ting; Sun, Shen; Huang, Shao-Qiang
Source: Anesthesia and analgesia; May 2017; vol. 124 (no. 5); p. 1571-1580
Available in full text at Anesthesia and Analgesia - from Ovid

**Abstract:** BACKGROUND Low concentrations of local anesthetics (LCLAs) are increasingly popular for epidural labor analgesia. The effects of epidural analgesia with low concentrations of anesthetics on the duration of the second stage of labor and the instrumental birth rate, however, remain controversial. A systematic review was conducted to compare the effects of epidural analgesia with LCLAs with those of nonepidural analgesia on obstetric outcomes.

**30. Efficacy and safety of inhaled anaesthetic for postoperative sedation during mechanical ventilation in adult cardiac surgery patients: a systematic review and meta-analysis.**

**Author(s):** Spence, J; Belley-Côté, E; Ma, H K; Donald, S; Centofanti, J; Hussain, S; Gupta, S; Devereaux, P J; Whitlock, R

**Source:** British journal of anaesthesia; May 2017; vol. 118 (no. 5); p. 658-669

**Publication Type(s):** Journal Article

**Abstract:** The aim was to evaluate the efficacy and safety of volatile anaesthetic for postoperative sedation in adult cardiac surgery patients through a systematic review and meta-analysis.

**31. Effect of remifentanil for general anaesthesia on parturients and newborns undergoing caesarean section: a meta-analysis.**

**Author(s):** Zhang, Yunhui; Lu, Hongmei; Fu, Zheng; Zhang, Huijun; Li, Ye; Li, Wei; Gao, Jingui

**Source:** Minerva anestesiologica; May 2017

**Abstract:** BACKGROUND The results presented by studies investigating the effect of remifentanil on both parturients and newborns during cesarean section differed significantly. Therefore, we performed a meta-analysis to estimate the effect of remifentanil on these patients.

**32. Letter in response to "Lipid emulsion improves survival in animal models of local anesthetic toxicity: a meta-analysis".**

**Author(s):** Hoegberg, Lotte C G; Hoffman, Robert S; Hayes, Bryan D; Lavergne, Valéry; Gosselin, Sophie

**Source:** Clinical toxicology (Philadelphia, Pa.); May 2017 ; p. 1

**33. Effects of intrathecal dexmedetomidine on shivering after spinal anesthesia for cesarean section: A double-blind randomized clinical trial**

**Author(s):** Nasseri K.; Ghadami N.; Nouri B.

**Source:** Drug Design, Development and Therapy; Apr 2017; vol. 11 ; p. 1107-1113

Available in full text at Drug Design, Development and Therapy - from National Library of Medicine
Abstract: Background: Shivering is among the common troublesome complications of spinal anesthesia (SA), and causes discomfort and discontentment in parturients undergoing cesarean sections (CSs). The aim of this study was to investigate the effects of intrathecal dexmedetomidine in the prevention of shivering in those who underwent CS under SA. [abstract edited]

34. Dexmedetomidine as an additive to spinal anaesthesia in orthopaedic patients undergoing lower limb surgeries: A randomized clinical trial comparing two different doses of dexmedetomidine
Author(s): Rai A.; Bhutia M.P.
Source: Journal of Clinical and Diagnostic Research; Apr 2017; vol. 11 (no. 4)
Abstract: Introduction: Use of dexmedetomidine as an additive to spinal anaesthesia is gaining popularity; but there seems to be no clear consensus on the ideal dose to be used. Because of dose related prolongation of duration of motor blockade along with increase in the incidence of side effects of dexmedetomidine namely hypotension and bradycardia, use of higher doses is not recommended. Aim: To evaluate the efficacy of two different doses of dexmedetomidine (3 micro g and 5 micro g) given in combination with 0.5% hyperbaric bupivacaine via intrathecal route with regard to the quality of anaesthesia namely the time to attain highest sensory and motor blockade, side effects of dexmedetomidine and time to first rescue analgesia. [abstract edited]

35. Effects of ondansetron on attenuating spinal anesthesia-induced hypotension and bradycardia in obstetric and nonobstetric subjects: A systematic review and meta-analysis
Author(s): Tubog T.D.; Kane T.D.; Pugh M.A.
Source: AANA Journal; Apr 2017; vol. 85 (no. 2); p. 113-122
Available in full text at AANA Journal - from ProQuest
Abstract: Hypotension and bradycardia are common adverse effects following spinal anesthesia. Ondansetron has been studied in the attenuation of spinal anesthesia-induced hypotension (SIH) and bradycardia because of its antagonistic effect on the Bezold-Jarisch reflex. The purpose of this systematic review and meta-analysis of randomized controlled trials (RCTs) was to determine the efficacy of intravenous (IV) ondansetron in reducing the incidence of SIH and bradycardia. [abstract edited]

36. Efficacy and Safety of Dexmedetomidine as an Adjuvant in Epidural Analgesia and Anesthesia: A Systematic Review and Meta-analysis of Randomized Controlled Trials
Author(s): Zhang X.; Wang D.; Shi M.; Luo Y.G.
Source: Clinical Drug Investigation; Apr 2017; vol. 37 (no. 4); p. 343-354
Abstract: Background and Objective: Several clinical trials have examined and indicated the usefulness of epidural dexmedetomidine therapy. However, there has been no systematic analysis of the findings of these trials to date. We undertook this systematic review and meta-analysis to investigate the efficacy and safety of epidural dexmedetomidine adjunctive therapy in different surgical procedures. [abstract edited]
37. The feasibility of local anesthesia for the surgical treatment of umbilical hernia: a systematic review of the literature

**Author(s)**: Jairam A.P.; Kaufmann R.; Lange J.F.; Muysoms F.; Jeekel J.

**Source**: Hernia; Apr 2017; vol. 21 (no. 2); p. 223-231

**Abstract**: Background: Yearly approximately 4500 umbilical hernias are repaired in The Netherlands, mostly under general anesthesia. The use of local anesthesia has shown several advantages in groin hernia surgery. Local anesthesia might be useful in the treatment of umbilical hernia as well. However, convincing evidence is lacking. We have conducted a systematic review on safety, feasibility, and advantages of local anesthesia for umbilical hernia repair.[abstract edited]

38. Prophylactic Pentazocine Reduces the Incidence of Pruritus After Cesarean Delivery Under Spinal Anesthesia With Opioids: A Prospective Randomized Clinical Trial.

**Author(s)**: Hirabayashi, Masato; Doi, Katsushi; Imamachi, Noritaka; Kishimoto, Tomomune; Saito, Yoji

**Source**: Anesthesia and analgesia; Apr 2017

Available in full text at Anesthesia and Analgesia - from Ovid

**Abstract**: BACKGROUND The incidence of pruritus after cesarean delivery under spinal anesthesia with opioids is high, ranging from 50% to 100%. Pruritus is difficult to prevent; however, pentazocine has been shown to be an effective treatment. Despite this, the prophylactic effect of pentazocine on pruritus has not been defined. This randomized double-blind trial aimed to evaluate the effect of intraoperative IV pentazocine on the incidence of opioid-induced pruritus within the first 24 hours after administration of neuraxial opioids.[abstract edited]


**Author(s)**: Archer, David P; Walker, Andrew M; McCann, Sarah K; Moser, Joanna J; Appireddy, Ramana M

**Source**: Anesthesiology; Apr 2017; vol. 126 (no. 4); p. 653-665

Available in full text at Anesthesiology - from Ovid

**Abstract**: BACKGROUND Patients undergoing endovascular therapy for acute ischemic stroke may require general anesthesia to undergo the procedure. At present, there is little clinical evidence to guide the choice of anesthetic in this acute setting. The clinical implications of experimental studies demonstrating anesthetic neuroprotection are poorly understood. Here, the authors evaluated the impact of anesthetic treatment on neurologic outcome in experimental stroke.[abstract edited]

40. Effect of anesthesia methods on postoperative major adverse cardiac events and mortality after non-cardiac surgeries: a systematic review and meta-analysis.

**Author(s)**: An, Ran; Pang, Qian-Yun; Chen, Bo; Liu, Hong-Liang

**Source**: Minerva anestesiologica; Apr 2017
Abstract: BACKGROUND Postoperative major adverse cardiac events (MACEs) are the main cause of postoperative mortality, and controversies exist regarding the effects of anesthesia methods on postoperative MACEs and mortality in high-risk cardiac patients after non-cardiac surgeries.


Author(s): Jerath, Angela; Panckhurst, Jonathan; Parotto, Matteo; Lightfoot, Nicholas; Wasowicz, Marcin; Ferguson, Niall D; Steel, Andrew; Beattie, W Scott

Source: Anesthesia and analgesia; Apr 2017; vol. 124 (no. 4); p. 1190-1199

Available in full text at Anesthesia and Analgesia - from Ovid

Abstract: BACKGROUND Inhalation agents are being used in place of intravenous agents to provide sedation in some intensive care units. We performed a systematic review and meta-analysis of prospective randomized controlled trials, which compared the use of volatile agents versus intravenous midazolam or propofol in critical care units.

42. Effects of different fresh gas flows with or without a heat and moisture exchanger on inhaled gas humidity in adults undergoing general anaesthesia: A systematic review and meta-analysis of randomised controlled trials.

Author(s): Braz, José R C; Braz, Mariana G; Hayashi, Yoko; Martins, Regina H G; Betini, Marluci; Braz, Leandro G; El Dib, Regina

Source: European journal of anaesthesiology; Apr 2017

Abstract: BACKGROUND The minimum inhaled gas absolute humidity level is 20 mgH2O l for short-duration use in general anaesthesia and 30 mgH2O l for long-duration use in intensive care to avoid respiratory tract dehydration. OBJECTIVE The aim is to compare the effects of different fresh gas flows (FGFs) through a circle rebreathing system with or without a heat and moisture exchanger (HME) on inhaled gas absolute humidity in adults undergoing general anaesthesia.

43. Comparison of cutting and pencil-point spinal needle in spinal anesthesia regarding postdural puncture headache: A meta-analysis.

Author(s): Xu, Hong; Liu, Yang; Song, WenYe; Kan, ShunLi; Liu, FeiFei; Zhang, Di; Ning, GuangZhi; Feng, ShiQing

Source: Medicine; Apr 2017; vol. 96 (no. 14); p. e6527

Abstract: BACKGROUND Postdural puncture headache (PDPH), mainly resulting from the loss of cerebral spinal fluid (CSF), is a well-known iatrogenic complication of spinal anesthesia and diagnostic lumbar puncture. Spinal needles have been modified to minimize complications. Modifiable risk factors of PDPH mainly included needle size and needle shape. However, whether the incidence of PDPH is significantly different between cutting-point and pencil-point needles was controversial. Then we did a meta-analysis to assess the incidence of PDPH of cutting spinal needle and pencil-point spinal needle.
44. Systematic review of the systemic concentrations of local anaesthetic after transversus abdominis plane block and rectus sheath block.

**Author(s):** Rahiri, J; Tuhoe, J; Svirskis, D; Lightfoot, N J; Lirk, P B; Hill, A G  
**Source:** British journal of anaesthesia; Apr 2017; vol. 118 (no. 4); p. 517-526  
**Abstract:** Background. Safe and efficacious modalities of perioperative analgesia are essential for enhanced recovery after surgery. Truncal nerve blocks are one potential adjunct for analgesia of the abdominal wall, and in recent years their popularity has increased. Transversus abdominis plane block (TAPB) and rectus sheath block (RSB) have been shown to reduce morphine consumption and improve pain relief after abdominal surgery. These blocks typically require large volumes of local anaesthetic (LA). We aimed to synthesize studies evaluating systemic concentrations of LA after perioperative TAP and RSB to enhance our understanding of systemic LA absorption and the risk of systemic toxicity. [abstract edited]

**Exercise: Study Design Timeframes**

Match the study design with the timeframe it covers.

1. Randomised Controlled Trial  
2. Cross-Sectional Study  
3. Case-control Study  
4. Cohort Study  
5. Case Report

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