



Low Flow Anesthesia

Binghe Wang, Leo E. Otterbein



Low Flow Anaesthesia:

Low Flow Anaesthesia Jan A. Baum, Geoffrey Nunn, 1996 In recent years methods of anaesthesia with reduced fresh gas flows and closed rebreathing systems have been viewed with increasing interest However as a great many anaesthetists are not familiar with the techniques of Low Flow Minimal Flow and Closed System anaesthesia some concerns have been expressed about their use Although this alternative approach to anaesthesia may call for a reappraisal of current practice the advantage of economies in the use of gases tightened occupational safety regulations as well as environmental considerations provide compelling reasons for an exploration of these methods Low Flow Anaesthesia the Theory and Practice of Low Flow Minimal Flow and Closed System Anaesthesia is one of the few monographs providing a comprehensive overview of the subject After an initial discussion of theoretical fundamentals the author proceeds to a detailed appraisal of problems arising in clinical practice Different types of modern anaesthetic machines and monitoring systems are examined in detail and the text is rounded off by a look at future developments in the field Originally published in German this updated English edition has been revised in collaboration with a well respected UK consultant anaesthetist and should prove essential reading for all anaesthetists both in training and in practice

Cost Analysis in Applying Low Flow Anesthesia Techniques Brien Macon, 2021 In the world of health care we have continued to struggle to find a balance in cost and practical usage of resources Anesthetic gases serve as an integral part of the surgical procedure and are administered to multiple patient populations Of the anesthetic gases being utilized none is more currently prevalent than sevoflurane Sevoflurane is a more costly agent and is often administered at a fresh gas flow rate of two or greater to avoid the development of compound A toxicity Providers should be aware of the capability to prevent the development of the toxic agent while simultaneously providing care at a more cost effective level to both the patient and the medical institution through lower fresh gas flows given the proper equipment This project analyzes the financial comparison of applying low fresh gas flow LFGF to the widely used setting of high fresh gas flow standard fresh gas flow and showcases the economic benefits the former will bring to the health care system Data was collected from a level one medical institution that has the capability to run low fresh gas flow due to the absorbent Amsorb Plus A comparison between low fresh gas flow and traditional standard flow rates was conducted Two groups of anesthesia providers were formed one only using low fresh gas flow rates and the other using flow rates equal to or greater than two The results showcased an overall 49% decline in cost to the medical facility if low fresh gas flow rates were more commonly utilized Annually anesthesia providers on average cost the facility around 3 300 per person by using flow rates equal to or greater than two In the application of low flow rates providers on average annually cost the facility 1 850 Obtaining these results revealed the huge margin of savings that could be achieved in applying lower flow rates The medical facility would gain savings by implementing resources that already exist to deliver low flow anesthesia with Sevoflurane safely and cost effectively Abstract

Low Flow Anesthesia Using U201cequilibrium Timeu201d and

Three Different Volatile Inhalational Agents- Desflurane, Sevoflurane and Isoflurane-a Randomized Prospective Clinical Study Vashishth Patel, 2017 LOW FLOW ANAESTHESIA USING EQUILIBRATION TIME AND THREE DIFFERENT VOLATILE INHALATIONAL AGENTS DESFLURANE SEVOFLURANE AND ISOFLURANE A RANDOMIZED PROSPECTIVE CLINICAL STUDY

Introduction Low flow anaesthesia involves an initial period of high fresh gas flow FGF followed by low FGF The changeover from high to low flow is usually done at 10 minutes of high flow Presently a new method has come in which equilibration time where the ratio of expired F_e and inspired F_i inhalation agent concentration become 0.8 is used for change over instead of fix time

Methods After ethical committee permission study was conducted on 63 patients of 18-60 years and ASA I-II who were randomized using envelop method into three groups of 21 each Group D patients received Desflurane group S patients received Sevoflurane and group I patients received Isoflurane All the patients received initial high FGF 6 L/min till the equilibration time was achieved and then low FGF 1 L/min was started Parameters monitored were equilibration time vital parameters end tidal CO_2 concentration end tidal N_2O concentration MAC and BIS value Recovery time was noted at end of surgery During postoperative period all patients were enquired about awareness

Results Equilibration time and recovery time was quite early in case of Desflurane followed by Sevoflurane and then by Isoflurane group None of the patient complained of awareness

Conclusion Desflurane and Sevoflurane are better agents for low flow anaesthesia compared to Isoflurane

References 1 Tanuja Malik et al JOACP 2012 volume 28 4 2 M R Nel et al Anaesthesia 1997 52

Understanding Anesthetic Equipment & Procedures Dwarkadas K Baheti, Vandana V Laheri, 2018-03-31 This new edition presents practising and trainee anaesthesiologists with the latest advances and guidelines in their field Beginning with an introduction to the history of anaesthesia basic physics and medical gases the following sections cover the anaesthesia machine airway and monitoring equipment and apparatus for central neuraxial and regional blocks The final chapters discuss interpretation of radiological images simulators in anaesthesia maintenance safety and cleaning and more The second edition has been fully revised to provide up to date information and a clear understanding of practices and techniques for anaesthesia The book features clinical photographs and diagrams and includes two interactive DVD ROMs demonstrating and explain day to day anaesthetic procedures Key points Fully revised new edition presenting latest techniques and information in anaesthesia Covers all different aspects of equipment in depth Includes DVD ROMs demonstrating anaesthetic procedures Previous edition 9789351521242 published in 2014

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optimal use This thoroughly updated edition includes new information on suction devices the magnetic resonance imaging environment temperature monitoring and control double lumen tubes emergency room airway equipment and many other topics Readers will have access to an online quizbank at a companion Website **Clinical Anesthesia** Paul G. Barash,2009 The premier single volume reference in the field of anesthesia Clinical Anesthesia is now in its Sixth Edition with thoroughly updated coverage a new full color design and a revamped art program featuring 880 full color illustrations More than 80 leading experts cover every aspect of contemporary perioperative medicine in one comprehensive clinically focused clear concise and accessible volume Two new editors Michael Cahalan MD and M Christine Stock MD join Drs Barash Cullen and Stoelting for this edition A companion Website will offer the fully searchable text plus access to enhanced podcasts that can be viewed on your desktop or downloaded to most Apple and BlackBerry devices Yearbook of Anesthesiology-7 Raminder Sehgal,Anjan Trikha,2018-07-31 Yearbook of Anesthesiology 7 is an up to date guide to the latest advances in anaesthesiology practice Comprising 25 chapters covering all three specialties associated with anaesthesiology regional and general anaesthesia pain and intensive care this book presents the most recent information in the field in a concise and highly illustrated format The book covers the complete field from techniques and post surgical recovery to pharmacology non technical skills and medicolegal issues This new volume features new chapters on statistics and ethical issues as well as a complete section dedicated to videolaryngoscopy The final chapter of the book Journal Scan covers recent articles published in respected journals accompanied by reviews and interpretations by experts in the field Key points Up to date guide to the latest advances in anaesthesiology In depth coverage of all three subspecialties regional and general anaesthesia pain and intensive care Complete chapter dedicated to videolaryngoscopy Features recent journal articles with reviews and interpretations by experts in the field Low Flow and Closed System Anesthesia J. Antonio Aldrete,1979 **Professional, Ethical, Legal, and Educational Lessons in Medicine** Kirk Lalwani,Ira Todd Cohen,Ellen Y. Choi,Berklee Robins,Jeffrey Kirsch,2024-09-06 With a diverse set of over 70 cases quizzes and a problem based learning approach this volume expertly provides an interactive and in depth learning experience for any medical professional **Anesthesia Equipment** Jan Ehrenwerth, MD,James B. Eisenkraft,James M Berry, MD,2013-04-01 Anesthesia Equipment Principles and Applications 2nd Edition by Dr Jan Ehrenwerth and Dr James B Eisenkraft offers expert highly visual practical guidance on the full range of delivery systems and technology used in practice today It equips you with the objective informed answers you need to ensure optimal patient safety This is a comprehensive up to date reference textbook covering all aspects of physics and equipment for the modern American anaesthetist It may be helpful to those studying for American fellowship examinations but is not suited to preparation for the UK FRCA examinations Reviewed by I Wrench on behalf of the British Journal of Anaesthesia Feb 2014 Make informed decisions by expanding your understanding of the physical principles of equipment the rationale for its use delivery systems for inhalational anesthesia systems monitoring hazards and safety features maintenance and quality

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