

ANESTHESIOLOGY

Perioperative Care of the Patient with Eye Pathologies Undergoing Nonocular Surgery

Steven Roth, M.D., F.A.R.V.O., Heather E. Moss, M.D., Ph.D.,
Thasarat Sutabutr Vajaranant, M.D., M.H.A.,
BobbieJean Sweitzer, M.D., F.A.C.P., S.A.M.B.A.-F., F.A.S.A.
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Perioperative injury to the eye ranges from corneal injuries producing pain and reversible blurred vision to serious disorders of the retina or optic nerve causing permanent blindness. The eye is the most important sensory organ, with up to 50% of cerebral cortical neurons serving visual function.¹ Low vision or blindness are major disabilities accompanied by significant emotional suffering and high cost to the healthcare system.² Accordingly, prevention of vision loss is of paramount concern, and it is critically important that anesthesia providers be competent in prevention, diagnosis, and treatment of vision-impacting complications of nonocular surgery and the important considerations in delivering anesthesia to patients with chronic ophthalmic disease.

Corneal injury from exposure keratopathy is the most common perioperative eye injury, presenting with pain, foreign body sensation in the eye, blurry vision, and photophobia. Its incidence has been dramatically reduced by educating providers in best preventive measures, from 1.20 per 1,000 to 0.09 per 1,000 in one quality improvement study.³ A full-thickness corneal transplant is associated with a risk for 1 yr of incision dehiscence, leading to catastrophic loss of eye contents.⁴ The anesthesia provider needs to protect the eye of such individuals undergoing anesthesia and surgery from even minor trauma or compression.

ABSTRACT

The authors reviewed perioperative ocular complications and implications of ocular diseases during nonocular surgeries. Exposure keratopathy, the most common perioperative eye injury, is preventable. Ischemic optic neuropathy, the leading cause of perioperative blindness, has well-defined risk factors. The incidence of ischemic optic neuropathy after spine fusion, but not cardiac surgery, has been decreasing. Central retinal artery occlusion during spine fusion surgery can be prevented by protecting eyes from compression. Perioperative acute angle closure glaucoma is a vision-threatening emergency that can be successfully treated by rapid reduction of elevated intraocular pressure. Differential diagnoses of visual dysfunction in the perioperative period and treatments are detailed. Although glaucoma is increasingly prevalent and often questions arise concerning perioperative anesthetic management, evidence-based recommendations to guide safe anesthesia care in patients with glaucoma are currently lacking. Patients with low vision present challenges to the anesthesia provider that are becoming more common as the population ages.

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The leading cause of perioperative blindness is ischemic optic neuropathy. There have been significant advances in determining the perioperative risk factors, publication of multispecialty-driven evidence-based advisories, and encouragingly, a dramatic decrease in its incidence in spinal fusion surgery,^{5,6} where the estimated national U.S. incidence was 4.63 per 10,000 spine fusion surgeries in 1998 to 2000 and 0.6 per 10,000 in 2010 to 2012.^{5,7} While some patients have regained vision spontaneously or via various treatment modalities, a major remaining challenge is the lack of any proven treatment. Central retinal artery occlusion and cerebral blindness can produce overlapping signs and symptoms; hence, accurate diagnosis of these entities is essential to drive appropriate therapies.

Idiopathic intracranial hypertension is an elevation in cerebrospinal fluid pressure caused by decreased cerebrospinal fluid absorption or elevated cerebral venous sinus pressures.^{8,9} Its main permanent morbidity is to the visual system, characterized by papilledema associated with vision loss, and sixth nerve palsy causing diplopia.¹⁰ These patients often present for labor analgesia, and commonly questioned is the safety of placing epidural catheters.¹¹ There is, however, currently no evidence to justify the withholding of epidural or spinal analgesia.

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Steven Roth, M.D., F.A.R.V.O.: Department of Anesthesiology, University of Illinois at Chicago, College of Medicine, Chicago, Illinois.

Heather E. Moss, M.D., Ph.D.: Departments of Ophthalmology and Neurology & Neurologic Sciences, Stanford University, Palo Alto, California.

Thasarat Sutabutr Vajaranant, M.D., M.H.A.: Department of Ophthalmology and Visual Science, University of Illinois at Chicago, College of Medicine, Chicago, Illinois.

BobbieJean Sweitzer, M.D., F.A.C.P., S.A.M.B.A.-F., F.A.S.A.: University of Virginia, Charlottesville, Virginia; Perioperative Medicine, Inova Health System, Falls Church, Virginia.

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Perioperative Care Of The Eye Patient

**Michael F. Lubin, Robert B.
Smith, Thomas F. Dodson, Nathan O.
Spell, H. Kenneth Walker**

Perioperative Care Of The Eye Patient:

Perioperative Care of the Eye Patient Gilli Vafidis, Neville Robinson, George M. Hall, 2000-02-29 This concise book written in clear and readable style is directed to nurses ophthalmologists and anaesthetists involved in the management of patients undergoing eye surgery Inpatient and day case perioperative care is outlined The authors extensive combined experience of clinical practice and teaching both in specialist units and general hospitals serves to provide a thoroughly useful guide to patient care in modern surgical practice

Perioperative Care of the Elderly Patient Sheila Ryan Barnett, Sara E. Neves, 2018-01-11 This practical useful guide is for all clinicians involved in perioperative care of the geriatric patient undergoing surgery with anesthesia

Perioperative Management of Patients with Rheumatic Disease Brian F. Mandell, 2012-07-17 Perioperative care of the patient with a multisystem inflammatory rheumatic disease has become increasingly complex and perioperative medicine has evolved into its own subspecialty Physicians who have expertise in managing patients with rheumatic disease infrequently spend significant time also managing patients undergoing surgical procedures and the reverse is equally true Despite the burgeoning literature on the medical management of the surgical patient scant data have been generated regarding patients with complex rheumatic disease Perioperative Management of Patients with Rheumatic Disease fills a conspicuous gap in the literature and aims at providing a paved path for rheumatologists who infrequently manage surgical problems and medical consultants who only seldom encounter patients with rheumatic diseases to tread as they care for patients in the perioperative period The book addresses discrete management issues from the perspective of the medical subspecialist and also offers concise descriptions of surgical procedures Written from the surgical perspective for the internist the surgical procedure chapters include a brief description of relative contraindications time to recovery rehabilitation suggestions and comments regarding common and severe procedure specific postoperative complications

Perioperative Care of the Elderly Gabriella Bettelli, 2017-11-16 This innovative comprehensive book covers the key elements of perioperative management of older patients The book s chapter structure coincides with the clinical path patients tread during their treatment from preoperative evaluation to post hospital care Epidemiological aspects and aging processes are illustrated providing keys to understanding the quick expansion of geriatric surgery and defining the clinical profile of older surgical patients in a cybernetic perspective Preoperative evaluation and preparation for surgery including medication reconciliation and pre habilitation are developed in the light of supporting decision making about surgery in an evidence based and patient focused way Intra and postoperative management are discussed aiming to tailor anesthetic surgical and nursing approaches to specific patients needs in order to prevent both general and age related complications This volume also addresses issues relevant to geriatric surgery from different organizational models to clinical risk management and systems engineering applied to hospital organization

Perioperative Care of the Orthopedic Patient C. Ronald MacKenzie, Charles N. Cornell, Stavros G.

Memtsoudis,2020-03-19 Although a number of comprehensive texts pertaining to perioperative medicine are available this remains the only one that focuses specifically on the patient undergoing orthopedic surgery now in a revised and expanded second edition Beginning with chapters covering preoperative evaluations and general principles and practices of perioperative medicine the book then considers anesthesiologic management in orthopedic surgery and the role of postoperative pain management This is followed by a section on medical management in specific clinical settings discussing patients with connective tissue disease cardiac disease chronic pulmonary and renal diseases diabetes and neurological diseases among others A fourth section covers specific perioperative problems in orthopedic surgery such as care of the elderly patient venous thromboembolism infection nutrition compartment syndrome and bone health Finally the role of allied services quality improvement and ethics are highlighted Selected case studies are included to illustrate real world perioperative issues and management strategies in orthopedic surgery now moved to their respective chapters for ease of use and reference The shaded key points and chapter objectives boxes at the beginning of each chapter and the summary points at the end of each chapter have been retained and updated within a full color interior Written by experts at the top ranked Hospital for Special Surgery in New York Perioperative Care of the Orthopedic Patient 2e will be a comprehensive multidisciplinary manual providing preoperative considerations postoperative complications and guidelines for the anesthetic and medical management of patients undergoing orthopedic surgery It will be an valuable resource for orthopedic surgeons sports medicine specialists and allied professionals involved in orthopedic surgery *Medical Management of the Surgical Patient* Michael F. Lubin,Robert B. Smith,Thomas F. Dodson,Nathan O. Spell,H. Kenneth Walker,2010-02-11 An authoritative account of all aspects of perioperative care for surgical patients [A Textbook of Perioperative Care](#) Kate Woodhead,Paul Wicker,2005-05-18 Woodhead and Wicker s new text will be the foremost reference source for all perioperative practitioners The content mirrors the dynamics of modern perioperative practice by focusing on surgical interventions in all the environments in which it is currently practised including A this book does not attempt to to reflect the needs of all specialties but instead concentrates on the principles of practice applicable to any setting and any specialty It has a very practical focus it aims to be the book that nurses and ODPs reach for in order to answer their practical questions but is not be procedure driven Instead it sets out the principles of perioperative practice from which practitioners will be able to develop their own practice techniques Reflects principles of practice applicable to any perioperative environment Strong practical focus Edited by two of the biggest names in the international perioperative nursing sphere with contributions from other well known and authoritative sources Excellent opportunities to develop links with the National Association of Theatre Nurses and the European Operating Room Association The team of contributors are experienced practitioners working directly with perioperative patients or in perioperative education An original model for ethical practice is proposed the Reid model is the first such ethical model to be proposed for the perioperative environment Includes one of the only chapters in any

perioperative book which specifically focuses on the care of the elderly The research chapter encourages the use of evidence based practice and the development of perioperative research The unique chapter on care of the mentally ill will support practitioners who are not qualified in psychiatry to care for mentally ill patients This is an area where there is a great information deficit Key points listed for each chapter Sections have been completely revised from previous edition key subject areas now stand alone chapters rather than sections within much larger chapters creates ease of access for user Change of editorship Recognises the diversity of perioperative environments much more explicitly than previous edition

Perioperative Care of the Cancer Patient E-Book Carin A. Hagberg, Joseph L Nates, Berhard P Riedel, Vijaya N.R. Gottumukkala, Donal Buggy, 2022-03-26 More than 80% of patients with cancer will need the services of anesthesiology and perioperative medicine intensive care medicine and pain management specialists during their cancer journey for diagnostic therapeutic and symptom management needs as well as for the management of recurrent disease secondary cancers and ongoing non oncologic surgical needs during survivorship Perioperative Care of the Cancer Patient is today s most up to date authoritative comprehensive reference on the acute care of surgical patients with cancer from a team of international experts in this emerging and dynamic specialty Covers current clinical practice and perioperative care guidelines during the entire cancer journey for both adult and pediatric patients Includes a diverse array of topics on cancer care such as cancer epidemiology cancer biology ethics in cancer care delivery value proposition in cancer care opportunities and challenges with research programs in perioperative cancer care application of big data and computational sciences in cancer medicine and care delivery and the MD Anderson Cancer Center Moon Shots Program Discusses newer cancer therapies and their perioperative implications functional assessment and prehabilitation enhanced recovery programs in cancer care challenges with novel cancer therapies in the care of the critically ill cancer patient chronic and interventional pain management in patients with cancer and more An educational resource and clinical reference for surgeons anesthesia practitioners hospitalists internists pain physicians intensivists basic science researchers and all clinicians involved in the acute care of surgical patients with cancer Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices

Preoperative Assessment and Perioperative Management Mark Radford, Clare Evans, Alastair Williamson, 2011 Pre operative assessment of the surgical patient is a key part of the perioperative process However it is one that cannot be separated from the other aspects of perioperative management both clinical and administrative that ensures the safe and effective treatment of surgical patients There are a number of books on the market that examine perioperative management anaesthesia and surgical nursing that are only able to touch on the pre operative assessment process Pre Operative Assessment Perioperative Management sets out to be different by bridging the gap between these texts and the evolving and developing area of practice that pre operative assessment has become in modern healthcare In order to achieve this Pre Operative Assessment Perioperative Management

has set out to deliver the core clinical aspects of practice linked to the education and service development needs of a perioperative service The challenge for such a book is to integrate this knowledge effectively using the best evidence base for use in every day practice The brief to the contributors was to help define pre operative assessment utilising their expertise to draw out some of the leading practices and thoughts of the day They have achieved this ensuring that the reader has access to some of the leading experts in international perioperative practice They have done this in an open and accessible style that will guide the reader through some complex and demanding subjects to enable them to deliver better front line care to surgical patients

Alexander's Care of the Patient in Surgery - E-Book Jane C. Rothrock, 2010-06-09 For more than 65 years Alexander's Care of the Patient in Surgery has been a trusted source for detailed information on perioperative nursing Well known author and educator Jane C Rothrock sets up a solid foundation for practice and offers step by step instructions for over 400 surgical interventions as well as many minimally invasive surgical procedures all backed by the latest research More than 1 000 full color illustrations and photos depict procedures and methods as well as surgical anatomy and instrumentation This edition adds Rapid Response Team boxes with suggested interventions plus coverage of new trends in patient and staff safety the increase in interventional radiology and the growth of outpatient ambulatory surgery Alexander's gives you the tools you need to provide safe cost effective high quality patient care

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Perioperative Care Of The Eye Patient Introduction

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