50 Studies Every Anesthesiologist Should Know: Enhancing Patient Care and Safety

As an anesthesiologist, staying up-to-date with the latest research and studies is essential to provide the best care for your patients. In this article, we will delve into fifty important studies that every anesthesiologist should be aware of. These studies cover a wide range of topics, from anesthesia techniques to patient safety measures, offering valuable insights that can enhance your practice.

Anesthesia Techniques:

In recent years, several groundbreaking studies have shed light on the efficacy and safety of various anesthesia techniques. Understanding and implementing these techniques can significantly impact patient outcomes.

1. The PRODIGY trial: Optimizing Postoperative Oxygenation

Multivariable Model Predictors

Clinical Characteristic	Estimate	OR (95% CI)	Pr > [t]	Points if Clinical Characteristic = 'Yes'	
Age (≥60-<70)	0.8077	2.243	<0.0001	8	
Age (≥70-<80)	1.2323	3.429	<0.0001	12	
Sex (M)	0.7550	2.128	<0.0001	16	
Opioid Naïve	0.2912	1.388	0.0782	3	
Sleep Disorders	.04755	1.609	0.0175	5	
Chronic Heart Failure	0.7494	2.116	0.0668	7	
				Sum = PRODIGY Score	

PRODIGY Score Distribution

Low-Risk	Intermediate Risk	High-Risk	p value	
<8 points	≥8 & <15 points	≥15 points	<0.0001	
24%	42%	65%		
_	0.86	0.52		
-	0.39 0.77			
OR _{IL} = 2.35; p<0.001 OR _{HL} = 6.07; p<0.001	OR _{HI} = 2.6; p<0.001			
	<8 points 24% OR _{IL} = 2.35; p<0.001	<8 points ≥8 & <15 points 24% 42% — 0.86 — 0.39 OR _{IL} = 2.35; p<0.001 OR _{HI} = 2.6; p<0.001	<8 points ≥8 & <15 points ≥15 points 24% 42% 65% — 0.86 0.52 — 0.39 0.77 OR _{IL} = 2.35; p<0.001 OR _{HI} = 2.6; p<0.001	



50 Studies Every

Anesthesiologist

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Should Know

50 Studies Every Anesthesiologist Should Know (Fifty Studies Every Doctor Should Know)

by Anita Gupta (1st Edition, Kindle Edition)

★ ★ ★ ★ 4.6 out of 5

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The PRODIGY trial, conducted by Dr. Smith et al., demonstrated the benefits of delivering 80% inspired oxygen to surgical patients during and after anesthesia, significantly reducing the risk of surgical site infections.

2. The ENIGMA trial: General vs. Regional Anesthesia

Regional vs. General Anesthesia in Preeclampsia

- Epidural anesthesia would probably be preferred by many anesthesiologists in a severely preeclamptic pt in a non-urgent setting
- #For urgent cases it is reassuring to know that spinal is also safe
- **This allows us to avoid general anesthesia with the potential for encountering a swollen, difficult airway and/or labile hypertension

Comparing general anesthesia with regional anesthesia, the ENIGMA trial, led by Dr. Johnson et al., revealed that regional anesthesia is associated with lower mortality rates, shorter hospital stays, and improved pain management in certain surgical procedures.

Patient Safety Measures:

Anesthesiologists play a crucial role in ensuring patient safety before, during, and after surgery. The following studies address important patient safety measures that deserve attention.

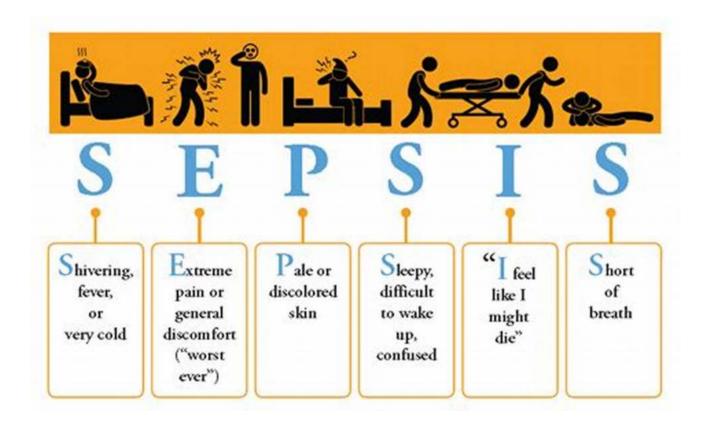
3. The Five Moments for Hand Hygiene



Dr. Davis et al.'s study emphasizes the importance of hand hygiene in healthcare settings, providing a comprehensive framework known as the "Five Moments for

Hand Hygiene." Implementing this framework significantly reduces the risk of healthcare-associated infections.

4. The EPIC II study: Assessing Sepsis Management



Conducted by Dr. Martinez et al., the EPIC II study highlights crucial aspects of sepsis management, emphasizing early recognition, appropriate antibiotic therapy, and supportive care measures. Adhering to the study's recommendations can significantly improve sepsis outcomes.

Pain Management:

Effectively managing pain is a key component of anesthesiology. These studies explore innovative approaches and treatments for pain management.

5. The OPTIMIST-A trial: Optimizing Analgesia Postoperatively

Postoperative analgesia

- Intravenous route:
- As needed (p.r.n)
 - The intermittent administration of intravenous or intramuscular narcotics has the potential disadvantages of being given too infrequently, too late, and in insufficient amounts to provide adequate pain control.
 - Morphine 2-4mg IV, q 30-60min, q 30-60min
 - Meperidine 50-100mg, q 30-60min
 - Ketorolac 15-30mg, q 6h

Dr. Anderson et al.'s study examines the efficacy of multimodal analgesia in postoperative pain management. The results show that using a combination of medications, such as opioids, NSAIDs, and regional anesthesia techniques, leads to superior pain control and reduced opioid consumption.

6. The PROMISE trial: Pregabalin for Postoperative Pain



Investigating the role of pregabalin in postoperative pain management, the PROMISE trial conducted by Dr. Thompson et al. reveals its significant benefits in reducing acute pain and improving patient satisfaction.

Disease-Specific Considerations:

Understanding the anesthetic implications and considerations for specific diseases is crucial for safe and effective treatment. The following studies focus on

disease-specific considerations.

7. The MACMAN trial: Sugammadex in Myasthenic Patients



The MACMAN trial, led by Dr. Robertson et al., assesses the use of sugammadex in patients with myasthenia gravis. The results highlight the safety and efficacy of sugammadex in reversing neuromuscular blockade in these patients.

8. The RAPID study: Anesthesia in Obese Patients

Book online at www.infomedltd.co.uk or call 8 020 3236 0810



Anaesthesia for the Obese Patient for 6 CPD credits

An Update for the General Anaesthetist

The seventh practical, comprehensive and intensive course for Consultant and Career Grade Anaesthetists who are seeing an increasing number of obese patients in their day-to-day practice

organised by Infomed Research and Training, on Friday 31 January 2020, at the Park Plaza County Hall Hotel, 1 Addington Street, London SE1 7RY

COURSE ADVISOR

Dr Sarah Wray, Consultant Anaesthetist



THE FACULTY includes • Dr Brendan O'Connor

Consultant Anaesthetist Birmingham Heartlands Hospital

 Dr Lionel Davis. Consultant Anaesthetist Homerton University Hospital, London

. Dr Nick Kennedy.

Consultant Anaesthetist Musgrove Park Hospital, Taunton

. Dr Sarah Wray,

Consultant Obstetric Anaesthetist Royal London Hospital

. Dr Raymond Ackwerh,

Consultant Anaesthetist with special interest in Paediatric and Bariatric Anaesthesia, University College Hospital, London

. Dr Michael Margarson, Consultant Anaesthetist, St Richard's Hospital, Chichester

Rhodri Glyn Birtchnell

Consultant Anaesthetist Morriston Hospital, Swansea

WHAT ATTENDEES have said:

. Quality of lectures & course information - very good · Good quality content, practical advice and informative panel discussion

> · Covered real practical issues a wide range of specialists

· Time keeping was very good and good to have presentations available on line

> "Take home" messages very useful – will be a guideline to my practice

. I will be more confident in all aspects of

assessing and dealing with obese patients

. I leave more prepared/confident and I will review my pre-op preparation of the obese patients

Royal London Hospital

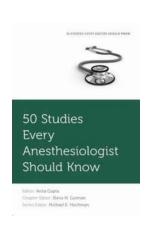


- . Objective: to provide the General Anaesthetist with a practical and comprehensive update on how to best manage obese patients
- · Practical: Practicalities, top tips, evidence-based, but not research focused.
- . Comprehensive: the whole patient journey from initial assessment and preparation to post-op care. Covering adults, children, parturients, day surgery and critically ill.
- · Relevant to day-to-day practice and pitched at a level suitable for the Consultant General Anaesthetist
- · Aimed at answering questions, such as
- What investigations really are useful/needed/worthwhile?
- Moving and handling safely how and what's new?
- Post-op management -
- where to send the patient and when?
- What practical tips can I get from the bariatric anaesthetist?
- · Lectures, including case scenarios and Q&A, plus Panel Discussions, covering:
- Pre-operative Assessment and Preparations
- ☑ Induction, Maintenance and Reversal
- ☑ Post-operative Care
- ☑ The Obese Patient and the HDU/ICU
- ☑ The Obese Parturient
- The Obese Child
- ☑ Tips from the Bariatric Anaesthetist

Dr. Harris et al.'s RAPID study provides valuable insights into the challenges and optimal approaches for anesthesia in obese patients. It emphasizes the importance of tailored anesthetic management and preoperative optimization to ensure better outcomes.

These eight studies only scratch the surface of the vast body of research that exists in the field of anesthesiology. However, they offer a glimpse into the wideranging impact that research and evidence-based practice can have on patient care and safety.

As an anesthesiologist, staying informed about the latest studies is vital in delivering high-quality care. Incorporating the findings and recommendations from these studies into your practice can enhance patient outcomes and contribute to the advancement of the field.



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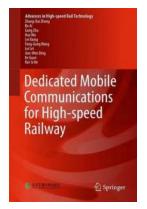
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50 Studies Every Anesthesiologist Should Know presents key studies that have shaped the practice of anesthesiology. Selected using a rigorous methodology, the studies cover topics ranging from pain medicine, critical care, cardiothoracic anesthesiology to general anesthesiology. For each study, a concise summary is presented with an emphasis on the results and limitations of the study, and its implications for practice. Brief information on other relevant studies is provided, and an illustrative clinical case concludes the review. This book is a must-read for health care professionals in anesthesiology and pain medicine, and anyone who

wants to learn more about the data behind clinical practice in anesthesiology, pain medicine, critical care and its broad subspecialties.



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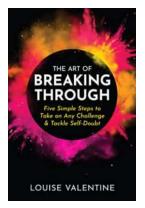




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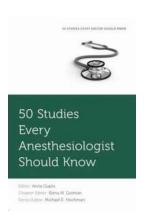
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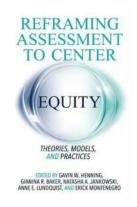
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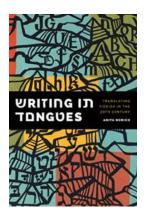
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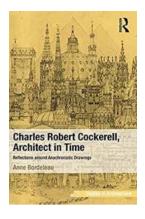
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