

**Robert E. Christensen**  
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**Department of Anesthesiology**  
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## Summary

As an academic pediatric anesthesiologist, I have more than a decade of experience providing care for patients, with a particular interest in non-operating room anesthesia such as sedation for radiation therapy and voiding cystourethrogram. My research focuses on pediatric perioperative cardiac arrest, so I have reviewed hundreds of cases from various national databases. I regularly teach our fellows, residents, medical students and other learners.

## Education and Training

### Education

08/1996-04/2000	BS, University of Michigan, Ann Arbor, MI
08/1998-06/1999	University of Seville, Seville, Spain
08/2000-06/2004	MD, University of Michigan, Ann Arbor, MI

### Residency and Fellowship

07/2004-06/2005	Internship, Transitional Year, Oakwood Hospital, Dearborn, MI
07/2005-06/2008	Residency, Anesthesiology, University of Michigan, Ann Arbor, MI
07/2008-06/2009	Fellowship, Pediatric Anesthesiology, University of Michigan, Ann Arbor, MI

## Certification And Licensure

### Certification

2009-present	American Board of Anesthesiology (General/Primary Certificate) - Anesthesiology #44500
2013-present	American Board of Anesthesiology (Subspecialty Certification) - Pediatric Anesthesiology
2004-present	Pediatric Advanced Life Support and Advanced Cardiac Life Support

### Licensure

2008-present	DEA Registration
2008-present	State of Michigan, Controlled Substance
2008-present	State of Michigan, Medical License

## Academic Appointments

### Academic Appointments

07/2009-03/2012	Clinical Lecturer of Anesthesiology, University of Michigan, Ann Arbor, MI
04/2012-08/2018	Clinical Assistant Professor of Anesthesiology, University of Michigan, Ann Arbor, MI
09/2018-present	Clinical Associate Professor of Anesthesiology, University of Michigan, Ann Arbor, MI

## Clinical Interests

- Pediatric Anesthesia
- Non-operating Room Anesthesia

## Research Interests

- Pediatric Perioperative Cardiac Arrest

## Honors and Awards

### International

2019 SPA Spring 2019 Editors Best Picks: Pediatric Perioperative Cardiac Arrest, Death in the Off Hours: A Report From Wake Up Safe, The Pediatric Quality Improvement Initiative

### Institutional

1997 University of Michigan, Undergraduate Degree - class honors  
1998 University of Michigan, Undergraduate Degree - class honors  
2000 University of Michigan, Student Biomedical Research Fellowship  
2000 University of Michigan, Undergraduate Degree - class honors  
2000 University of Michigan, Undergraduate Degree - graduated with high distinction  
2001 University of Michigan, Student Biomedical Research Fellowship  
2004 University of Michigan, Department of Anesthesiology - Robert B. Sweet Award

## Memberships in Professional Societies

2004-present Member, American Society of Anesthesiologists  
2004-present Member, Michigan Society of Anesthesiologists  
2005-present Member, International Anesthesia Research Society  
2009-present Member, Society of Pediatric Anesthesia  
2016-2018 Member, Society for Non-Operating Room Intervention and Anesthesia  
2016-present Member, Academy of Medical Educators, University of Michigan Medical School  
2018-present Elected Member, Association of University Anesthesiologists

## Editorial Positions, Boards, and Peer-Review Service

### Journal Reviewer

2010-present Reviewer, Anesthesia and Analgesia (Ad Hoc)  
2010-present Reviewer, British Journal of Anesthesia (Ad Hoc)  
2016-present Reviewer, Journal of Anesthesiology Research and Practice (Ad Hoc)  
2016-present Reviewer, Journal of Clinical Anesthesia (Ad Hoc)  
2016-present Reviewer, Orphan Anesthesia (Ad Hoc)  
2016-present Reviewer, Pediatrics - The Journal of the American Academy of Pediatrics (Ad Hoc)  
2019-present Pediatric Anesthesia (Ad Hoc)  
2019-present Pediatric Radiology (Ad Hoc)  
2020-present Anesthesiology (Ad Hoc)

## Teaching Activity

### Institutional

2009-present Medical Student Lectures  
2009-present Pediatric Anesthesiology Fellowship Lecture Series  
2009-present Pediatric Anesthesia Morning Lecture Series -Residents and Medical Students

2009-present Anesthesiology Resident Tutorials

### **Dissertation Committees**

2009 Thomas Ferris, Tactile Interface, University of Michigan, Engineering, Committee Member

## **Committee and Administrative Services**

### **International**

2009-2011 Society for Pediatric Anesthesia- Education Committee, Member  
2010-2011 Society for Pediatric Anesthesia- Membership Committee, Member  
2016-2018 Society for Non-OR Intervention and Anesthesiologists, Pediatric Section Head

### **National**

2011-present Wake Up Safe: The Pediatric Anesthesia Quality Improvement Initiative, Member  
2017-present ASPIRE Pediatric Anesthesiology Subgroup, Member  
2017-present American Board of Anesthesiology, Question Writer

### **Institutional**

2008-present Centricity Development, Manager  
2009-2011 C.S. Mott PACU Clinical Practice Committee, Member  
2009-2011 PACU Centricity Committee, Member  
2009-present Anesthesia Clinical Research Committee, Member  
2010-2011 Pediatric Regional Anesthesia, Member  
2013-present MiChart Provider Superuser/Pediatric Liaison, Member  
2014-present Radiation Oncology, Clinical Liaison  
2015-2016 Perioperative Practice Guideline Development for Spinal Muscular Atrophy Patients, Member  
2015-present Clinical Pathway Development for Voiding Cystourethrogram, Member  
2016-present Quality Assurance Committee, Member  
2020-present Fellow Scholarship Oversight Committee, Member

## **Volunteer Service**

### **Volunteer**

2007 Medical Volunteer, Project Shunt, Guatemala, Providing anesthesia for children in need of neurosurgery

## **Visiting Professorships and Extramural Invited Presentations**

### **Extramural Invited Presentations**

1. Cardiovascular and Anesthesia (Two Part Video Conference), St. Paul's Hospital Millennium Medical College, February 2017, Addis Ababa, Ethiopia

### **Other**

1. Anesthetic Neurotoxicity in Pediatrics, 89th Annual Spring Postgraduate Conference, May 2013, Kellogg Eye Center Ann Arbor Michigan

### **Seminars**

1. Congenital Heart Disease: A Practical Review of Anesthesia for Non-Cardiac Surgery, Practical Updates in Anesthesiology, University of Michigan, February 1998, Puerto Vallarta, Mexico
2. Team STEPPS: An Evidence-Based Teamwork System to Improve Communication and Teamwork Skills, Practical Updates in Anesthesiology, University of Michigan, February 2010, Puerto Vallarta, Mexico

## Bibliography

### Peer-Reviewed Journals and Publications

1. **Christensen RE**, Feters MD, Green LA: Opening the black box: cognitive strategies in family practice. *Annals of family medicine* 3(2): 144-50, 2005. PM15798041
2. Doherty TM, Voepel-Lewis T, **Christensen RE**, Malviya S: Postoperative opioid usage in children receiving Remifentanyl vs. sufentanyl *Acute Pain* 11(3): 107-11, 2009.
3. **Christensen RE**, Reynolds PI, Bukowski BK, Malviya S: Anaesthetic management and outcomes in patients with surgically corrected D-transposition of the great arteries undergoing non-cardiac surgery. *Br J Anaesth* 104(1): 12-5, 2010. PM19933174
4. Pearce B, **Christensen R**, Voepel-Lewis T: Perioperative Hypothermia in the Pediatric Population: Prevalence, Risk Factors and Outcomes *J Anesth Clin Res* 1: 102, 2010.
5. Chiravuri SD, Riegger LQ, **Christensen R**, Butler RR, Malviya S, Tait AR, Voepel-Lewis T: Factors associated with acute kidney injury or failure in children undergoing cardiopulmonary bypass: a case-controlled study. *Paediatr Anaesth* 21(8): 880-6, 2011. PM21306475
6. Nafiu OO, Burke CC, Gupta R, **Christensen R**, Reynolds PI, Malviya S: Association of neck circumference with perioperative adverse respiratory events in children. *Pediatrics* 127(5): e1198-205, 2011. PM21464187
7. Tallman K, Ramachandran SK, **Christensen R**, O'Brien D: Cardiac arrest in the PACU: an analysis of evolving challenges for perianesthesia nursing. *J Perianesth Nurs* 26(1): 4-8, 2011. PM21276543
8. **Christensen RE**, Gholami AS, Reynolds PI, Malviya S: Anaesthetic management and outcomes after noncardiac surgery in patients with hypoplastic left heart syndrome: a retrospective review. *Euro J Anaesthesiol* 29(9): 425-30, 2012. PM22717725
9. **Christensen R**, Voepel-Lewis T, Lewis I, Ramachandran SK, Malviya S, American Heart Association's Get With The Guidelines®-Resuscitation (formerly the National Registry of Cardiopulmonary Resuscitation) investigators: Pediatric cardiopulmonary arrest in the postanesthesia care unit: analysis of data from the American Heart Association Get With The Guidelines® -Resuscitation registry. *Paediatr Anaesth* 23(6): 517-23, 2013. PM23551906
10. Tait AR, Voepel-Lewis T, **Christensen R**, O'Brien LM: The STBUR questionnaire for predicting perioperative respiratory adverse events in children at risk for sleep-disordered breathing. *Paediatr Anaesth* 23(6): 510-6, 2013. PM23551934
11. Ramachandran SK, Mhyre J, Kheterpal S, **Christensen RE**, Tallman K, Morris M, Chan PS, American Heart Association's Get With The Guidelines-Resuscitation Investigators: Predictors of survival from perioperative cardiopulmonary arrests: a retrospective analysis of 2,524 events from the Get With The Guidelines-Resuscitation registry. *Anesthesiology* 119(6): 1322-1339, 2013. PM23838723
12. Mathis MR, Haydar B, Taylor EL, Morris M, Malviya SV, **Christensen RE**, Ramachandran SK, Kheterpal S: Failure of the Laryngeal Mask Airway Unique™ and Classic™ in the pediatric surgical patient: a study of clinical predictors and outcomes. *Anesthesiology* 119(6): 1284-1295, 2013. PM24126262
13. Shah GS, **Christensen RE**, Wagner DS, Pearce BK, Sweeney J, Tait AR: Retrospective evaluation of antimicrobial prophylaxis in prevention of surgical site infection in the pediatric population *Paediatr Anaesth* 24(9): 994-998, 2014. PM24823901
14. Mollard BJ, Smith EA, Lai ME, Phan T, **Christensen RE**, Dillman JR: MR enterography under the age of

10 years: a single institutional experience. *Pediatr Radiol* 46(1): 43-9, 2016. PM26224108

15. Bai W, Golmirzaie K, Burke C, Van Veen T, **Christensen R**, Voepel-Lewis T, Malviya S: Evaluation of emergency pediatric tracheal intubation by pediatric anesthesiologists on inpatient units and the emergency department. *Paediatr Anaesth* 26(4): 384-91, 2016. PM26738465
16. **Christensen RE**, Haydar B, Voepel-Lewis TD: Pediatric Cardiopulmonary Arrest in the Postanesthesia Care Unit, Rare but Preventable: Analysis of Data From Wake Up Safe, The Pediatric Anesthesia Quality Improvement Initiative. *Anesth Analg* 124(4): 1231-1236, 2017. PM28166099
17. **Robert Christensen**: Respiratory Outcomes in Preterm Infants: From Infancy through Adulthood *Anesth Analg* 125(5): 1811, 2017. PM28799969
18. **Christensen R**, Voepel-Lewis T: When the Worst Happens: Cardiac Arrest in the Pediatric PACU. *J Perianesth Nurs* 32(4): 382-384, 2017. PM28739074
19. **Christensen RE**, Lee AC, Gowen MS, Rettiganti MR, Deshpande JK, Morray JP: Pediatric Perioperative Cardiac Arrest, Death in the Off Hours: A Report From Wake Up Safe, The Pediatric Quality Improvement Initiative. *Anesth Analg* 127(2): 472-477, 2018. PM29677059
20. **Christensen RE**, Nause-Osthoff RC, Waldman JC, Spratt DE, Hearn JWD: Adverse events in radiation oncology: A case series from wake up safe, the pediatric anesthesia quality improvement initiative. *Paediatr Anaesth* 29(3): 265-270, 2019. PM30580487
21. Baetzel A, Brown DJ, Koppera P, Rentz A, Thompson A, **Christensen R**: Adultification of Black Children in Pediatric Anesthesia. *Anesth Analg* 129(4): 1118-23, 2019. PM31295177
22. Haydar B, Baetzel A, Stewart M, Voepel-Lewis T, Malviya S, **Christensen R**: Complications Associated With the Anesthesia Transport of Pediatric Patients: An Analysis of the Wake Up Safe Database. *Anesth Analg* 131(1): 245-254, 2020. PM31569160
23. Haydar B, Baetzel A, Elliott A, MacEachern M, Kamal A, **Christensen R**: Adverse Events During Intrahospital Transport of Critically Ill Children: A Systematic Review. *Anesth Analg* 131(4): 1135-1145, 2020. PM31856008
24. **Robert Christensen** Bishr Haydar Shobha Malviya: Managing the Post-COVID-19 Pediatric Surgical Surge - Opportunities and Challenges *J Clin Anesth* 67: 110016. PMC7383138
25. **Christensen R**, Haydar B, Leis A, Mentz G, Reynolds P: Anesthesiologist-Related Factors Associated with Risk-Adjusted Pediatric Anesthesia-Related Cardiopulmonary Arrest: A Retrospective Two Level Analysis. *Paediatr Anaesth* 31(12): 1282-1289, 2021. PM34328691

## Non-Peer-Reviewed Journals and Publications

1. Shah GS, **Christensen RE**, Tait AR: Response to Dr. Murphy and Dr. Ferguson regarding comment on our paper: Retrospective evaluation of antimicrobial prophylaxis in prevention of surgical site infection in the pediatric population *Paediatr Anaesth* 25(2): 218, 2015. PM25580660
2. **Robert Christensen, MD** Terri Voepel-Lewis, PhD, RN: When the Worst Happens: Cardiac Arrest in the Pediatric PACU *J Perianesth Nurs*. 32(4): 382-384, 2017. PM28739074

## Other Media

### Editorial comment

1. **Christensen R**: Anesthesiology Recruiting: Dispatches from the Interview Trail - Is Anesthesiology Becoming More Competitive?, ASA Newsletter, 2004.

### Letter to editor

1. Tait AR, Voepel-Lewis T, **Christensen R**, O'Brien LM: Comment on 'Utility of screening questionnaire, obesity, neck circumference, and sleep polysomnography to predict sleep-disordered breathing in children and adolescents', *Paediatr Anaesth*, 26(8):858, 2016.