

**DANIEL T. REDFORD, M.D.**  
**Associate Professor, Clinical Anesthesiology**  
**Cardiothoracic Anesthesia**  
**Department of Anesthesiology**  
**The University of Arizona College of Medicine**  
**Tucson, AZ**

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**EDUCATION**

6/1976	B.A. Chemistry/Biology Metropolitan State College Denver, CO
12/1982	M.D. University of Guadalajara Guadalajara, Mexico
7/1985	Pathway (2-year program) University of Maryland School of Medicine Baltimore, MD
7/1985	Transitional Internship South Baltimore General Hospital Baltimore , MD
7/1986	PG Internship-1 OB/GYN St. Luke's Hospital Bethlehem, PA
1/1988-1/1990	Anesthesia Residency Illinois Masonic Medical Center Chicago, IL
1/1990-1/1991	Cardiothoracic Anesthesia Fellowship Illinois Masonic Medical Center Chicago, IL

**CERTIFICATION**

10/1996-Present	Diplomate, American Board of Anesthesiology
2014-Present	The National Board of Echocardiography- Examination of Special Competence in Advanced Perioperative Transesophageal Echocardiography

**LICENSURE**

5/1989-1/2002 Washington State Medical Board  
10/1989-Present Colorado State Medical Board  
1/1990-Present Arizona State Medical Board

**PROFESSIONAL EXPERIENCE**

1986-1987 Emergency Room Physician/Primary Health Care  
Church Hospital  
Baltimore, MD  
  
1991-1992 Locum Tenens Anesthesiologist  
Independent Contractor  
Multiple hospitals confined to Western Washington State  
  
1992-1995 Staff Anesthesiologist  
St. Clare Hospital  
Tacoma, WA  
  
1995-2001 Staff Anesthesiologist  
Madigan Army Medical Center  
Tacoma, WA  
  
2001-2007 Assistant Professor of Clinical Anesthesiology  
University of Arizona College of Medicine  
Tucson, AZ  
  
2007-Present Associate Professor of Clinical Anesthesiology  
University of Arizona College of Medicine  
Tucson, AZ  
  
2015-Present Medical Director, Certified Registered Nurse Anesthetists  
University of Arizona College of Medicine  
Tucson, AZ

**HONORS & AWARDS**

2004-2005 Certificate of Appreciation, Resident Award for Teaching  
Department of Anesthesiology  
University of Arizona College of  
  
2006-2007 Clinical Teaching Award, Resident Award for Teaching  
Department of Anesthesiology,  
University of Arizona College of Medicine  
Tucson, AZ

**PROFESSIONAL SOCIETIES**

1/1987	American Society of Anesthesiology
6/2001	Arizona State Society of Anesthesiology
12/2002	International Anesthesia Research Society
12/2002	Society for Technology in Anesthesia
3/2001	Society of Cardiovascular Anesthesiologists
7/2012	American Society of Echocardiography

**SERVICE/OUTREACH**

**LOCAL**

2003-Present	Anesthesiology Consultant to the Arizona State Board of Medical Examiners
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**NATIONAL**

1998-2001	Anesthesiology Consultant to the US Assistant Attorney General
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**DEPARTMENTAL**

2001-2002	Anesthesia Record Review Committee, Member Department of Anesthesiology University of Arizona College of Medicine Tucson, AZ
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2001-2012	Acute Pain Committee, Member Department of Anesthesiology University of Arizona College of Medicine Tucson, AZ
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2001-Present	Anesthesiology Quality Assurance Committee, Member Department of Anesthesiology University of Arizona College of Medicine Tucson, AZ
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- 2002-Present      Cardiac Team  
Department of Anesthesiology  
University of Arizona College of Medicine  
Tucson, AZ
- 2002-Present      Pediatric Cardiac Team  
Department of Anesthesiology  
University of Arizona College of Medicine  
Tucson, AZ
- 2002-Present      Pediatric Anesthesiology Team  
Department of Anesthesiology  
University of Arizona College of Medicine  
Tucson, AZ
- 2006-Present      Anesthesia Clinical Competency Committee  
Department of Anesthesiology  
University of Arizona College of Medicine  
Tucson, AZ

**COLLEGE OF MEDICINE**

- 2001-Present      Faculty Preceptor to 2<sup>nd</sup> and 4<sup>th</sup> Year Medical Students  
University of Arizona College of Medicine  
Tucson, AZ
- 2003-Present      Member  
University of Arizona Sarver Heart Center  
Tucson, AZ

**UNIVERSITY MEDICAL CENTER**

- 2003-Present      Medical Staff Appeals Committee  
University Medical Center  
Tucson, AZ
- 2007-Present      Quality Assurance Committee  
University Medical Center  
Tucson, AZ
- 2007-Present      Blood Utilization Committee  
University Medical Center  
Tucson, AZ
- 2007-Present      Hospital Product Standardization Committee  
University Medical Center  
Tucson, AZ

2008-Present            Chairperson, Blood Utilization Committee  
University Medical Center  
Tucson, AZ

**MADIGAN ARMY MEDICAL CENTER**

1996-2001            Cardiothoracic Anesthesiology Team  
Madigan Army Medical Center  
Tacoma, WA

1996-2001            Neurosurgery Team  
Madigan Army Medical Center  
Tacoma, WA

1996-2001            Vascular Team  
Madigan Army Medical Center  
Tacoma, WA

1997-1999            Quality Assurance/Quality Improvement Committee, Member  
Madigan Army Medical Center  
Tacoma, WA

**SPECIAL TRAINING**

1988-1990            Pediatric Anesthesia  
Clinical Director Arthur Klowden, MD  
Shriners Hospital for Crippled Children  
Chicago, IL

1990                    Chronic/Acute Pain Treatment  
Clinical Director Howard Moritz, MD  
Illinois Masonic Medical Center  
Chicago IL

1990                    Flexible Fiberoptic Laryngoscopy & Bronchoscopy  
Clinical Director Edward Czinn, MD  
Illinois Masonic Medical Center  
Chicago, IL

1991                    Pediatric Anesthesia  
Clinical Director Frank Seleny, MD  
Children's Memorial Hospital  
Chicago, IL

1996                    Transesophageal Echocardiography  
Joseph Scaniffe, MD  
Credentialed at Madigan Army Medical Center  
Tacoma, WA

- 2002 Pediatric Cardiothoracic Anesthesia Training  
Professor & Department Chair-Wayne Jacobsen, MD  
Professor-Martin Allard, MBChB, FRCA, MD  
Professor & President of Group-Robert Martin, MD  
Loma Linda University  
Loma Linda, CA
- 2003 SCA 6<sup>th</sup> Annual Comprehensive Review & TEE Update  
San Diego, CA
- 2003 SCA Surgical Anatomy Wet Lab & Basic TEE  
San Diego, CA

## **EDITORIAL ACTIVITIES**

- 2004-Present Anesthesia & Analgesia Reviewer

## **PUBLICATIONS**

### **JOURNAL ARTICLES**

1. Alwardt CM, **Redford DT**, Larson DF: General Anesthesia in Cardiac Surgery: A Review of Drugs and Practices. *J Extra Corpor Technol* 2005;37:227-35. PMID:16117465.
2. **Redford DT**, Kim AS, Barber BJ, Copeland JG: Transesophageal Echocardiography For Intraoperative Evaluation and Resection of a Large Anterior Mediastinal Mass. (Echo Round) *Anesth Analg* 2006; 103(3):578-79. Doi: 10.1213/01.ane.0000226095.59926.94.
3. Najmaii S, **Redford DT**, Larson DF: Hyperglycemia as an Effect of Cardiopulmonary Bypass: Intra-operative Glucose Management. *J Extra Corpor Technol* 2006;38:168-73. PMID:16921693.
4. Barker SJ, Curry J, **Redford DT**, Morgan S: Measurement of Carboxyhemoglobin and Methemoglobin by Pulse Oximetry: a Human Volunteer Study. *Anesthesiology* 2006; 105:892-97. PMID:17065881.
5. Bartley AN, **Redford DT**, Berg MP: Transfusion Protocol for Implantation and Explanation of Cardiac Devices in an Academic Medical Center. *ASAIO May/June* 2007; 53(3):320-23. Doi: 10.1097/MAT.0b013e318034095c.
6. Urban K, **Redford DT**, Larson DF: Insulin Binding to the Cardiopulmonary Bypass Biomaterials. *Perfusion* 2007; 22(3):207-10. PMID:18018401.
7. **Redford DT**, Quigley TW, Gandy KL, Barber BJ: Transesophageal Echocardiography for the Intraoperative Evaluation and Management of a Left

Ventricular Vegetation. *Anesth Analg* 2008; 106(6):1636-38.  
Doi:10.1213/ane.0b013e31817320de2.

8. Gentry-Smetana S, Moore D, **Redford DT**, Larson DF: Direct Effects of Volatile Anesthetics on Cardiac Function. *Perfusion* 2008; 23(1):43-7. PMID:18788217.

9. Patino M, **Redford DT**, Quigley TW, Mahmoud M, Kurth CD and Szmuk P: Accuracy of Acoustic Respiration Rate Monitoring in Pediatric Patients. *Pediatric Anesthesia* 2013; 23:1166-73. Doi:10.1111/pan.12254. PMID:24033591.

10. Swyers T, **Redford D**, Larson DF: Volatile Anesthetic-induced Preconditioning. *Perfusion* 2014 Jan; 29(1):10-5. Doi:10.0077/0267659113503975. PMID:24002781.

11. Baraniuk S, Tilley BC, del Junco DJ, Fox EE, van Belle G, Wade CE, Podbielski JM, Beeler AM, Hess JR, Bulger EM, Schreiber MA, Inaba K, Fabian TC, Kerby JD, Cohen MJ, Miller CN, Rizoli S, Scalea TM, O'Keeffe T, Brasel KJ, Cotton BA, Muskat P, Holcomb JB; **PROPPR Study Group**: Pragmatic Randomized Optimal Platelet and Plasma Ratios (PROPPR) Trial: Design, rationale and implementation. *Injury*. 2014 Sep;45(9):1287-95. Doi: 10.1016/j.injury.2014.06.001. Epub 2014 Jun 10. PMID: 24996573. PMCID: PMC4137482.

12. **Redford DT**, Thompson JL, McCulloch JC, Nielsen VG: Left Atrial Myxoma Presenting as Pulmonary Embolism: Potential Role of Heme Oxygenase-1. *Blood Coagul Fibrinolysis*. 2014 Sep; 25(6): 621-4. Doi: 10.197/MBC.0000000000000097. PMID: 24553061.

13. **Redford DT**, Paidy S, Kashif F: Absolute and trend accuracy of a new regional oximeter in healthy volunteers during controlled hypoxia. *Anesth Analg*. 2014 Dec;119(6):1315-9. Doi: 10.1213/ANE.0000000000000474. PMID: 25405692. PMCID: PMC4342321.

14. Typpo KV, Larmonier CB, Deschenes J, **Redford DT**, Kiela PR, Ghishan FK: Clinical characteristics associated with postoperative intestinal epithelial barrier dysfunction in children with congenital heart disease. *Pediatr Crit Care Med*. 2015 Jan;16(1):37-44. Doi: 10.1097/PCC.0000000000000256. PMID: 25162512.

15. Holcomb JB, Tilley BC, Baraniuk S, Fox EE, Wade CE, Podbielski JM, del Junco DJ, Brasel KJ, Bulger EM, Callcut RA, Cohen MJ, Cotton BA, Fabian TC, Inaba K, Kerby JD, Muskat P, O'Keeffe T, Rizoli S, Robinson BR, Scalea TM, Schreiber MA, Stein DM, Weinberg JA, Callum JL, Hess JR, Matijevic N, Miller CN, Pittet JF, Hoyt DB, Pearson GD, Leroux B, van Belle G: Transfusion of plasma, platelets and red blood cells in a 1:1:1 vs a 1:1:2 ratio and mortality in patients with severe trauma: the PROPPR randomized clinical trial. **PROPPR Study Group**. *JAMA* 2015 Feb; 313(5):471-82. Doi:10.1001/jama.2015.12. PMID: 25647203.

16. Novak DJ, Bai Y, Cooke RK, Marques MB, Fontaine MJ, Gottschall JL, Carey PM, Scanlan RM, Fiebig EW, Shulman IA, Nelson JM, Flax S, Duncan V, Daniel-Johnson JA, Callum JL, Holcomb JB, Fox EE, Baraniuk S, Tilley BC, Schreiber MA, Inaba K, Rizoli S, Podbielski JM, Cotton BA, Hess JR; **PROPPR Study Group**:

Making thawed universal donor plasma available rapidly for massively bleeding trauma patients: Experience from the Pragmatic, Randomized Optimal Platelets and Plasma Ratios (PROPPR) trial. *Transfusion*. 2015 Jun;55(6):1331-9. Doi: 10.1111/trf.13098. PMID: 25823522. PMCID: PMC4469576.

17. **Redford DT**: In Response. *Anesth Analg*. 2015 Aug;121(2):576-7. Doi: 10.1213/ANE.0000000000000745. PMID: 26197382.

18. **Redford DT**, Paidy SR, Steinbrenner EB, Nielsen VG: Effects of Profound Hypoxemia on Coagulation and Fibrinolysis in Normal Individuals. *Blood Coagul Fibrinolysis*. 2016 Mar; 27(2): 228-31. Doi: 10.1097/MBC.0000000000000400. PMID: 26340460.

19. Nielsen G, **Redford DT**, Boyle PK: Effect of Iron and Carbon Monoxide on Fibrinogenase-like Degradation of Plasmatic Coagulation by Venoms of Six Agkistrodon Species. *Basic and Clinical Pharmacology and Toxicology*. 2015 Oct. Doi: 10.1111/bcpt.12504. PMID: 26467642.

20. Nielsen VG, Boyer LV, Matika RW, Amos Q, **Redford DT**: Iron and Carbon Monoxide Attenuate Crotalus Atrox Venom-enhanced Tissue-type Plasminogen Activator-initiated Fibrinolysis. *Blood Coagul Fibrinolysis*. 2015 Nov; 26: **Epub ahead of print**. Doi: 10.1097/MBC.0000000000000439. PMID: 26575490.

21. Undurraga Perl VJ, Leroux B, Cook MR, Watson J, Fair K, Martin DT, Kerby JD, Williams C, Inaba K, Wade CE, Cotton BA, Del Junco DJ, Fox EE, Scalea TM, Tilley BC, Holcomb JB, Schreiber MA, **PROPPR Study Group**: Damage-control resuscitation and emergency laparotomy: Findings from the PROPPR study. *J Trauma Acute Care Surg*. 2016 Apr; 80(4): 568-74; discussion 574-5. Doi: 10.1097/TA.0000000000000960. PMID: 26808304.

22. **Redford DT**, Nielsen VG. Effect of Iron and Carbon Monoxide on Fibrinogenase-like Degradation of Plasmatic Coagulation by Venoms of Four Crotalus Species. *Blood Coagulation and Fibrinolysis*. *Blood Coagul Fibrinolysis*. 2016 Feb 2. **Epub ahead of print**. PMID: 26845427.

23. **Redford DT**: In Response. *Anesth Analg*. 2016 Mar; 122(3): 920-1. Doi: 10.1213/ANE.00000000000001016. PMID: 26891406.

24. Nielsen VG, Boyler LV, **Redford DT**, Ford P: Thrombelastographic Characterization of the Thrombin-Like Activity of Crotalus Simus and Bothrops Asper Venoms. *Blood Coagul Fibrinolysis*. 2016 June 16. **Epub ahead of print**. PMID: 27314863.

## BOOK REVIEW

1. **Redford D**: Understanding Ultrasound Physics. Edelman, SK, Woodlands, Texas, ESP. Inc., 2004. ISBN 0-9626444-4-7, *Anesth Analg* 2006;102(1):337.



**ABSTRACTS**

1. Tebich S, Loeb R, **Redford D**: Acrotherm Warming System Maintains Patient's Temperature For Up To Ninety Minutes. *Anesthesiology* 2002; 97(3A):A507.
2. **Redford DT**, Lichtenthal P, Barker SJ: Evaluation of The Nares As A Site For Oximetry Monitoring In Intraoperative Surgical Patients. *Anesth Analg* 2004; 98; S-94.
3. **Redford DT**, Lichtenthal P, Barker SJ: Intraoperative Perfusion Changes at Two Pulse Oximetry Monitoring Sites: The Digit Vs. The Nare. *Anesth Analg* 2004; 98; S-93.
4. **Redford DT**, Lichtenthal P, Barker SJ: Evaluation of Ear Transmission and Forehead Reflectance Oximetry In Intraoperative Surgical Patients. *Anesth Analg* 2004; 98; S-92.
5. **Redford D**, Lichtenthal P, Barker S: A Clinical Comparison of Pulse Oximeter Sensor Sites in the Pediatric Surgical Patient: Ear, Nose, Lip, and Forehead. *Anesthesiology* 2004; 101:A595.
6. **Redford D**, Lichtenthal P, Barker S: Evaluation of 2 Forehead Reflectance Oximeters in Pediatric Intraoperative Surgical Patients. *Anesthesiology* 2004; 101:A593.
7. **Redford D**, Lichtenthal P, Barker S: An Intraoperative Comparison of Ear Transmission and Forehead Reflectance Oximetry in Pediatric Surgical Patients. *Anesthesiology* 2004; 101:A579.
8. **Redford DT**, Lichtenthal PR, Barker SJ: Impact of Headbands on Performance of 2 Forehead Reflectance Oximeters on Difficult to Monitor Surgical Patients. *Anesth Analg* 2005; 100; S214.
9. **Redford DT**, Lichtenthal PR, Barker SJ: Evaluation of Alternative Pulse Oximeter Monitoring Sites for the Difficult to Monitor Surgical Patient. *Anesth Analg* 2005; 100; S213.
10. **Redford DT**, Azar AE, Barker SJ: Evaluation of a New Combined SPO<sub>2</sub>/PTCCO<sub>2</sub> Ear Sensor (Tosca) at 42°C and 44°C in Cardiac Surgical Patients. *Anesth Analg* 2006; 102; S-169.
11. **Redford DT**, Azar AE, Barker SJ: Evaluation of a New Combined SPO<sub>2</sub>/PTCCO<sub>2</sub> Ear Sensor (Tosca) for Ventilatory Weaning in the Postoperative Management of the Cardiac ICU Patient. *Anesth Analg* 2006; 102; S-147.
12. Urban K, **Redford DT**, Larson DF: Insulin Binding to the Cardiopulmonary Bypass Biomaterials. *American Academy of Cardiovascular Perfusion*.
13. Copeland JG, Smith RG, Nolan P, Covington D, Gandy K, **Redford DT**: Bridge to Recovery with Pulsatile Pump Support in Children Under Three Years of Age. *Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion*, Hershey, Pennsylvania, May 17-19, 2007.

14. Urban K, **Redford DT**, Larson DF: Insulin Binding to the Cardiopulmonary Bypass Biomaterials. American Academy of Cardiovascular Perfusion 2007; 22:207.
15. Gentry-Smetana S, Moore D, **Redford DT**, Larson DF: Direct Effects of Volatile Anesthetics on Cardiac Function. American Academy of Cardiovascular Perfusion 2008; 23:43.
16. Taylor N, **Redford D**, Palmer C: Treatment of Massive Pulmonary Thromboembolism in a Parturient with Factor V Leiden Deficiency. WARC 2008.
17. O'Mara B, **Redford D**: A 10-year-old With An Acquired LV Pseudoaneurysm. WARC 2008.
18. Warner TA, Lichtenthal PR, Morgan SE, **Redford DT**: Central Line Securing Devices: Has Progress Been Made? WARC 2008.
19. Saucedo S, **Redford DT**: Transesophageal Echocardiogram Images of Pulmonary Hypertension and Right-Sided Heart Failure in a Patient with Schistosomiasis. Western Anesthesia Resident Conference, Palm Springs, California 2009.
20. Bhamidipaty SV, Mistry AC, **Redford DT**. Cardiac Output Impedance Monitoring. Poster Presentation: Western Anesthesia Resident Conference, Palm Springs, California 2009.
21. Merrill D, **Redford DT**: Airway Management in an Infant with 15q26 Syndrome. Western Anesthesia Resident Conference, Anaheim, California 2010.
22. McLean H, **Redford DT**: Anesthetic Considerations for a Right-sided Congenital Diaphragmatic Hernia in a Neonate. Western Anesthesia Resident Conference, Anaheim, California 2010.
23. Felema G, **Redford DT**: Evaluation of Coronary Sinus Flow During Antegrade Cardioplegia. Western Anesthesia Resident Conference, Tucson, Arizona 2011.
24. Patino M, **Redford D**, Szmuk P, Quigley TW: Accuracy of Acoustic Respiration Rate Monitoring in Pediatric Patients. American Society of Anesthesiologists 2012 Annual Meeting Anesthesiology Journal Symposium.

25. **Redford D**, Paidy S, Kashif F: Absolute and Trend Accuracy of Masimo O<sub>3</sub> Regional Oximetry in Healthy Volunteers During Controlled Hypoxia. Society for Technology in Anesthesia 2013.
26. Kettelle C, Nogami W, **Redford D**: MAC Presenting as a Mediastinal Mass in an 8 Month Old Infant. Western Anesthesia Resident Conference, Albuquerque, NM 2013.

#### **DEPARTMENTAL PUBLICATIONS**

1. Interscalene Block, A Practical Approach; Acute and Post-operative Pain Management Easy Reference Guide, 2002.
2. Airway Anatomy, Nervous Innervation, and Clinical Approach to Anesthetizing for Awake Intubation; Acute and Post-operative Pain Management Easy Reference Guide, 2002.
3. University of Arizona, Anesthesiology Residency TEE Image Acquisition Quick Reference, 2003.
4. University of Arizona, Department of Anesthesiology Cardiac Resident Manual, 2005.

#### **RESEARCH WORK IN PROGRESS**

- 2012-Present Data collection of non-invasive cerebral oximetry sensors. Sponsored by Masimo, PI
- 2013-Present Clinical investigation of the Perceval S Suture-less Heart Valve Sub-Investigator
- 2014-Present Prospective observation study to characterize usability and reliability of Masimo O<sub>3</sub> tissue oxygenation monitoring during clinical use. Sponsored by Masimo, PI
- 2016-Present Evaluation of second Esmarch application on intravenous regional anesthesia effectiveness  
Co-Investigator

#### **RESEARCH COMPLETED**

- 2/01-1/06 An Observational, Repeated Analysis of Different Manufactured Pulse Oximeters in Patients Undergoing Cardiac Surgery Under Cardiopulmonary Bypass (Study Devices: Masimo SET, Hewlett Packard, Datex Ohmeda, Nellcor, Novemetrix, Marquette, BCI, Nonin, Space Labs, CSI, Criticare) Sponsored by Masimo, Co-PI, 20% effort.

- 5/03-4/07 Comparison Study Between Multiple Marketed Pulse Oximeters and the Masimo Met in Subjects Undergoing Surgery. Sponsored by Masimo, Co-PI, 20% effort.
- 7/03-7/06 Evaluation of a Continuous Non-Invasive Blood Pressure System in Direct Comparison to a Radial Artery Line Reference. Sponsored by Medwave Corp., PI, 20% effort.
- 9/03-8/07 Comparison of a Noninvasive Transcutaneous Carbon Dioxide Tension Sensor and Combined Pulse Oximeter (TOSCA©BY LINDE) to Blood Samples. Sponsored by Masimo, PI, 20% effort.
- 3/05-2/07 The Evaluation of SpMet and SpO<sub>2</sub> Accuracy During Normoxia and Hypoxic Conditions. Sponsored by Masimo, Co-PI, 20% effort.
- 7/12-6/15 PROPPR- Pragmatic, Randomized Optimal Platelet and Plasma Ratios. Sponsored by the National Heart Lung and Blood Institute, the U.S. Department of Defense (DOD), the Defence Research and Development Canada and the Resuscitation Outcomes Consortium. \$1.7M.

## **SCHOLARLY PRESENTATIONS**

### **NATIONAL POSTER PRESENTATIONS**

- 2015 Smith D, **Redford D**: Anesthetic Considerations for Removal of Large Intravascular Uterine Leiomyoma  
Western Anesthesia Resident's Conference Annual Meeting (WARC)  
Seattle, WA

### **INVITED LECTURES**

- 1989 Anesthetic Implications of the Sitting Position Craniotomy  
Anesthesiology Grand Rounds  
Illinois Masonic Medical Center  
Chicago, IL
- 1990 Anesthetic Implications for Congenital Diaphragmatic Hernia Repair  
Anesthesiology Grand Rounds  
Children's Memorial Hospital  
Chicago, IL
- 1992-1995 Extensive Airway Management Training  
Paramedic Students Training Airway Management Training Courses  
Tacoma, WA
- 1999 Airway Implications of a Modified Williams Airway  
Anesthesiology Grand Rounds  
Madigan Army Medical Center

Tacoma, WA

- 2000      Fiberoptic Placement of a Double Lumen Endotracheal Tube in the  
            Difficult Airway in an Awake Patient  
            Cardiothoracic and Anesthesiology Grand Rounds  
            Madigan Army Medical Center  
            Tacoma, WA
  
- 2001      Pre-operative Evaluation of the Pediatric Patient  
            Residency Program  
            University of Arizona College of Medicine  
            Tucson, AZ
  
- 2001      Airway Lecture  
            Residency Program  
            University of Arizona College of Medicine  
            Tucson, AZ
  
- 2002      Airway Management (Miller Review),  
            Anesthesiology Residency Program  
            University of Arizona College of Medicine  
            Tucson, AZ
  
- 2002      Anesthesia Record Oversight  
            Anesthesiology Grand Rounds  
            University of Arizona College of Medicine  
            Tucson, AZ
  
- 2003      The Comprehensive TEE Intraoperative Examination  
            Perfusion Graduate Program/Anesthesiology Residency Program  
            Sarver Heart Center  
            Tucson, AZ
  
- 2003      ASA Algorithm for the Difficult Airway  
            Anesthesiology Residency Program  
            University of Arizona College of Medicine  
            Tucson, AZ
  
- 2003      Emergency Airway Management  
            Department of Internal Medicine  
            University of Arizona College of Medicine  
            Tucson, AZ
  
- 2003      Mitral Valve Insufficiency  
            Anesthesiology Residency Program  
            University of Arizona College of Medicine  
            Tucson, AZ

- 2004 Evaluation of 2 Forehead Reflectance Oximeters in Intraoperative Surgical Patients, Research Session  
Society for Technology in Anesthesia Annual Meeting  
Tampa, FL
- 2004 Emergency Airway Management  
2<sup>nd</sup> Year Medical Students  
University of Arizona College of Medicine  
Tucson, AZ
- 2004 Advances in Pulse Oximetry  
Department of Anesthesiology Grand Rounds  
University of Missouri  
Columbia, MO
- 2004 Advances in Pulse Oximetry  
American Society of Anesthesiology Technologists & Technicians  
Annual Meeting of the American Society of Anesthesiologists  
Las Vegas, NV
- 2005 Anesthetic Considerations for Lung Transplantation Lecture  
Anesthesiology Residency Program  
University of Arizona College of Medicine  
Tucson, AZ
- 2005 TEE Educational Lecture  
Anesthesiology Residency Program  
University of Arizona College of Medicine  
Tucson, AZ
- 2006 Blood and Blood Products Lecture  
Anesthesiology Residency Program  
University of Arizona College of Medicine  
Tucson, AZ
- 2007 The Comprehensive Intraoperative TEE Examination  
Dept. of Cardiothoracic Surgical Attending Faculty/Fellowship Program  
University of Arizona College of Medicine  
Tucson, AZ
- 2008 Anesthetic Considerations for Lung Transplantation Lecture  
Anesthesiology Residency Program  
University of Arizona College of Medicine  
Tucson, AZ
- 2008 Anesthetic Considerations for the Patient with Coronary Artery Disease  
Anesthesiology Residency Program  
University of Arizona College of Medicine  
Tucson, AZ

- 05/2008      TEE Educational Lecture  
Anesthesiology Residency Program  
University of Arizona College of Medicine  
Tucson, AZ
  
- 07/2009.      Transesophageal Echocardiography  
Morning Conference, Dept. of CT Surgery  
University of Arizona  
Tucson, AZ
  
- 05/2010      ECHO Rounds  
Anesthesiology Residency Program  
University of Arizona College of Medicine  
Tucson, AZ
  
- 06/2010      ECHO Rounds  
Anesthesiology Residency Program  
University of Arizona College of Medicine  
Tucson, AZ
  
- 05/2011      Management of Lung Disease  
Anesthesiology Residency Program  
University of Arizona College of Medicine  
Tucson, AZ
  
- 05/2012      Congenital Heart Disease  
Anesthesiology Residency Program  
University of Arizona College of Medicine  
Tucson, AZ
  
- 01/2015      Anesthetic Considerations of Rheumatoid Arthritis  
Anesthesiology Residency Program  
University of Arizona College of Medicine  
Tucson, AZ
  
- 02/2015      Pharmacology of Inotropes: Dobutamine, Milrinone, ect.  
Anesthesiology Residency Program  
University of Arizona College of Medicine  
Tucson, AZ
  
- 05/2015      Basic Review: Cardiac Physiology-Preload, Afterload, Contractility  
Anesthesiology Residency Program  
University of Arizona College of Medicine  
Tucson, AZ

- 7/2015 Pathophysiology of Diastolic Dysfunction  
Anesthesiology Residency Program  
University of Arizona College of Medicine  
Tucson, AZ
- 9/2015 What the Anesthesiologist Wants the Blood Bank to Know  
American Society of Clinical Pathologists  
Long Beach, CA
- 8/2016 Pharmacology: Ketamine  
Anesthesiology Residency Program  
University of Arizona College of Medicine  
Tucson, AZ

**PAPERS PRESENTED AT MEETINGS:**

1. Redford DT: Evaluation of 2 Forehead Reflectance Oximeters In Intraoperative Surgical Patients. Society for Technology in Anesthesia Annual Meeting, Santa Fe, New Mexico, January 14-17, 2004.
2. Redford DT: Intraoperative Perfusion Changes at Two Pulse Oximetry Monitoring Sites: The Digit Vs. The Nare. International Anesthesia Research Society 78<sup>th</sup> Clinical and Scientific Congress, Tampa, Florida, March 27-31, 2004.
3. Redford DT: Evaluation of The Nares As A Site For Oximetry Monitoring In Intraoperative Surgical Patients. International Anesthesia Research Society 78<sup>th</sup> Clinical and Scientific Congress, Tampa, Florida, March 27-31, 2004.
4. Redford DT: Evaluation of Ear Transmission and Forehead Reflectance Oximetry In Intraoperative Surgical Patients, International Anesthesia Research Society 78<sup>th</sup> Clinical and Scientific Congress, Tampa, Florida, March 27-31, 2004.
5. Redford DT: Evaluation of 4 New Monitoring Sites for Pulse Oximetry in Intraoperative Surgical Patients, 13th World Congress of Anaesthesiologists, Paris, France, April, 2004.
6. Redford DT: An Intraoperative Comparison of Ear Transmission and Forehead Reflectance Oximetry in Pediatric Surgical Patients. Annual Meeting of the American Society of Anesthesiologists, Las Vegas, Nevada, October 22-26, 2004.
7. Redford DT: A Clinical Comparison of Pulse Oximeter Sensor Sites in the Pediatric Surgical Patient: Ear, Nose, Lip, and Forehead. Annual Meeting of the American Society of Anesthesiologists, Las Vegas, Nevada, October 22-26, 2004.



8. Redford DT: Evaluation of 2 Forehead Reflectance Oximeters in Pediatric Intraoperative Surgical Patients. Annual Meeting of the American Society of Anesthesiologists, Las Vegas, Nevada, October 22-26, 2004.
9. Redford DT: Evaluation of the Tongue and Hard Palate as Alternative Sites for the Reflectance Pulse Oximetry Monitoring in Difficult to Monitor Surgical Patients. Society for Technology in Anesthesia & International Meeting on Medical Simulation, Miami, Florida, January 13-15, 2005.
10. Redford DT: Evaluation of Alternative Pulse Oximeter Monitoring Sites for the Difficult to Monitor Surgical Patient. International Anesthesia Research Society, Honolulu, Hawaii, March 11-15, 2005.
11. Redford DT: Impact of Headbands on Performance of 2 Forehead Reflectance Oximeters on Difficult to Monitor Surgical Patients. International Anesthesia Research Society, Honolulu, Hawaii, March 11-15, 2005.

## **COMMUNITY SERVICE & OTHER ACTIVITIES**

- |           |  |
|-----------|--|
| 2004-2008 | Elementary School Mentor/Lecturer<br>Harelson Elementary School<br>Tucson, Arizona |
| 2005      | “Fixing the Broken Heart”<br>Harelson Elementary School<br>Tucson, Arizona         |

## **PROFESSIONAL DEVELOPMENT**

- |      |  |
|------|--|
| 2014 | Society of Cardiovascular Anesthesiology Annual Meeting<br>New Orleans, LA |
| 2015 | American Society of Clinical Pathology Annual Meeting<br>Long Beach, CA    |

## **LIST OF COLLABORATORS**

### **Amos Q**

Iron and Carbon Monoxide Attenuate Crotalus Atrox Venom-enhanced Tissue-type Plasminogen Activator-initiated Fibrinolysis. Blood Coagulation and Fibrinolysis. 2015 Nov; 26: Epub ahead of print. Doi: 10.1097/MBC.0000000000000439. PMID: 26575490.

### **Bai Y**

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**Bulger EM**

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**Cook MR**

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#### **Daniel-Johnson JA**

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#### **del Junco DJ**

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#### **Deschenes J**

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#### **Duncan V**

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#### **Fabian TC**

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**Fontaine MJ**

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**Gottschall JL**

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**Hess JR**

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**Inaba K**

Pragmatic Randomized Optimal Platelet and Plasma Ratios (PROPPR) Trial: Design, rationale and implementation. *Injury*. 2014 Sep;45(9):1287-95. Doi: 10.1016/j.injury.2014.06.001. Epub 2014 Jun 10. PMID: 24996573. PMCID: PMC4137482.

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**Kashif F**

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**Kiela PR**

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**Kurth CD**

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**Patino M**

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