

Curriculum Vitae

Johnathan Edwards M.D.

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Medical Doctor / Anesthesiologist / Physiologist / Sports Medicine

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Professional Summary

Skilled anesthesiologist and researcher with 25 years of exemplary service in the medical field. Committed to providing excellent care and service to patients as well as performing research, teaching medical students, residents, and nurses good quality surgical anesthesia care. My interests are in physiology of the brain, Post COVID rehabilitation, sports medicine, and nutrigenomics.

Board Certifications

American Board of Anesthesia - 2005 to present

EDUCATION

PhD candidate (September 2020 – present). Professor Veronique Billat.

Anesthesia Residency (July 2000 — June 2003): University of South Florida 12901 Bruce B. Downs Blvd, Tampa, Florida 33612

Research Fellow Neurologie (October 1999 — July 2000) : Institut National de la Sante et de la Recherche Médicale, Faculté de Médecine, Laennec, - L'Hôpital Pierre Wertheimer Neurologique et Neurochirurgical. 69008, Lyon, France

PM&R Residency (July 1998 - June 1999): Physical Medicine and Rehabilitation — University of Utah 50 North Medical drive, Salt Lake City, Utah 84132.

Internal Medicine Internship (July 1997 - June 1998): Internal Medicine — University of Nevada, Reno 100 Medical plaza, West Sahara Drive, Las Vegas, NV 89102.

Medical School (August 1993 - May 1997): Eastern Virginia Medical School, 700 Olney road, P.O. box 1980; Norfolk, VA 23501 Doctor of Medicine - May 1997.

University of California at Davis, Davis, CA 95616 Bachelor of Science - Physiology July 1991 - April 1993.

Victor Valley College, 22432 Bear Valley road, Victorville, CA 92344 Associate degree of Chemistry
September 1987 - May 1991.

PUBLICATIONS

Castaignède, L.; Veny, F.; Edwards, J.; Billat, V. The Carbon Footprint of Marathon Runners: Training and Racing. *Int. J. Environ. Res. Public Health* 2021, 18, 2769. <https://doi.org/10.3390/ijerph18052769>

Molinari C, Edwards JJ, Billat V. (2020). Maximal Time Spent at VO₂max from Sprint to the Marathon. *International Journal of Environmental Research and Public Health*. 17. 9250. 10.3390/ijerph17249250

Edwards JJ, Soto R, Bedford R. Bispectral Index Values are Higher during Halothane vs. Sevoflurane anesthesia in children, but not infants. *Acta Anaesthesiol Scand*. 2005 Sep;49(8):1084-7.

Edwards JJ, Soto R, Thrush DM, Bedford R. Bispectral Index Scale Is Higher for Halothane Than Sevoflurane during intraoperative anesthesia. *Anesthesiology* December 2003;99(6):1453-5.

Edwards JJ, Samuels D, Fu E. Forearm compartment syndrome from intravenous mannitol extravasation during general anesthesia: a case report. *Anesthesia & Analgesia*, January 2003; 96(1): 245-6.

Edwards JJ, Bosek V. Extravasation injury secondary to phenytoin. *Anesthesia & Analgesia*, March 2002; 94:672-3.

Edwards JJ, Bosek V. Drug extravasation injury in the practice of anesthesia. *Current Reviews in Clinical Anesthesia*. Jan 29, 2004; 13 (24): 143-151.

Davis BA and Edwards JJ. Isolated Subscapularis Tear in a Recreational Athlete Due to Minimal Trauma: A Case Report. *Arch Phys Med Rehab* 2001; 82:1740-1743.

Abstracts / Mentions

Edwards JJ, Soto R, Rice LJ, Bedford R. Bispectral Index Scale (BIS™) Values are Higher during Halothane than Sevoflurane in Pediatric Patients. *ASA Annual Meeting Abstracts* 99(3A), A326.

Anatomic Examination of Human Dura Mater Following 17 Gauge Tuohy Needle Puncture. Edwards JJ, Dwornik J, Muffly K, Schultetus R. *ASA Annual Meeting Abstracts* 99(3A), A1215.

Edwards JJ, Soto R, Thrush DM, Bedford R. Bispectral Index Scale Is Higher for Halothane Than Sevoflurane at Equipotent MAC. *Anesthesiology* 2002;97:A-290.

Edwards JJ, Gherzi-Egea JF, Strazielle, Fu E, et al. Experimental modeling of superoxide production and permeability of the choroid plexus: an important site for CNS drug transport. *Anesthesia & Analgesia* Feb 2001;92:S174.

Edwards JJ, Gherzi-Egea JF, Strazielle N, et al. Superoxide production at the blood cerebral spinal fluid barrier mediated by the reductive metabolism of xenobiotics. Focus on choroid plexus, May 2000; 1A: 56.

Gherzi-Egea JF, Strazielle N, Edwards JJ, et al. Are blood-brain interfaces efficient in protecting the brain from reactive molecules. *Biological Reactive Intermediates VI; Chemical and Biological Mechanisms in susceptibility to and prevention of environmental disease*. Snyder et al.

Edwards JJ, Jaffe MJ and Davis BA. Shoulder pain — cross trainer. *Med Sci Sports Exerc (Abs)* 1999; 31(53): 3142.

Jaffe MJ, Edwards JJ and Davis BA. Back and leg pain - soccer. *Med Sci Sports Exerc (Abs)* 1999; 31(6S): S245.

Kayota S, Bevins S, Edwards JJ. Pediatric Brain Tumors and outcome. Dept. of Physical Medicine & Rehabilitation, Eastern Virginia Medical school, 1997.

Guhi K, Muiugeta S, Tedeschi B, Shenoy SR, Maa MT, Hawkins N, Hsu CT, Edwards JJ, Goode GE and Aravich PF. Stress Inducible 70kDa Heat Shock Protein (FISP72) Expression in Gastric Mucosa of an animal model of Anorexia Nervosa and Gastric Stress Ulcers. Eastern Virginia Medical School, Society for Neuroscience 1997; 23:253.

Endoscopic Fascia Release for Forearm Chronic Exertional Compartment Syndrome: Case Report and Surgical Technique. Cobb TK et al. *Hand* 2017.

Books

The Science of the Marathon and the Art of Variable Pace Running. Billat V., Edwards J. 2020. https://www.amazon.com/dp/B08HHTCC1J/ref=dp-kindle-redirect?_encoding=UTF8&btkr=1

Management of Reverse Shoulder Arthroplasty – Book Chapter: Petroff E, Edwards, J. (2018). Reverse Shoulder Arthroplasty: How to Prevent Failure. 10.1007/978-3-662-56504-9-23.

Chasing Dakar – Edwards J, Harden S. 2006 <https://www.amazon.com/Chasing-Dakar-riders-adventure-preparation/dp/0978709403>

PRESENTATIONS

American Society of Anesthesiologists, 55th Clinical and scientific congress, Orlando, FL Bispectral Index Score (BIS) is higher for halothane than sevoflurane at equipotent MAC. October 15th, 2002.

American Society of Anesthesiologists, 56th Clinical and scientific congress, San Francisco, CA. Anatomic Examination of Human Dura Mater Following 17 Gauge Tuohy Needle Puncture. Edwards JJ, Dwornik J, Muffly K, Schultetus R. ASA Annual Meeting Abstracts 99(3A), A1215.

American College of Sports Medicine, 46th Annual Meeting, Scathe, WA, isolated Non-Traumatic Subscapularis tear in a Recreational Athlete, Edwards JJ, Jaffe MJ and Davis BA, June 3, 1999 University of Utah, Department of Physical Medicine and Rehabilitation, Salt Lake City, UT.

Gulf Atlantic Resident Research Conference, 29th Annual Meeting, Atlanta, GA. Compartment syndrome secondary to mannitol — clinical report. Edwards JJ, Fu, E. and Halothane elevates the BIS — original research, Edwards JJ, Bedford R. April 19th, 2002.

Gulf Atlantic Resident Research Conference, 28th Annual Meeting, Galveston, TX. Extravasation injury secondary to phenytoin — clinical report. Edwards JJ, Bosek V. April 27th, 2001.

International Anesthesia Research Society, 75th Clinical and scientific congress, Ft. Lauderdale, FL Experimental modeling of superoxide production and permeability of the choroid plexus: an important site for CNS drug transport March 17th, 2001.

Society of Pediatric Anesthesia, Winter 2003, Fort Myers, FL. Bispectral Index Scale (BIS™) Values are Higher during Halothane than Sevoflurane in Pediatric Patients. Original research.

ASA legislative conference 2002. FSA branch. Capitol Hill, Washington D.C.

University of South Florida Grand Rounds: Anesthesia for the pregnant patient undergoing non-obstetric surgery. February 15th

2001 Grand Rounds: Mannitol extravasation, February 8th

2001 Grand Rounds: Intravenous medication mishaps, May 18th, 2001

Grand Rounds: Malignant hyperthermia, September 27th, 2000

L'universit e Claude Bernard 1st annual meeting, Focus on Choroid Plexus, Lyon, France, Edwards JJ, Gherzi-Egea JF, Strazielle, et al. Superoxide production at the blood cerebral spinal fluid barrier mediated by the reductive metabolism of xenobiotics. May 1 —5, 1999 (presented in French and English).

Chairman's Grand Rounds: Medical aspects of Stretching, an update, May 10th, 1999.

Myopathies Congenital and metabolic causes November 13th, 1998 University of Nevada, Division of Internal Medicine, Las Vegas, NV.

Morning Rounds: Raynaud's Phenomena — Diagnosis and Treatment. September 12th, 1998 Eastern Virginia Medical School, Department of Physical Medicine and Rehabilitation, Muscle fatigue during exercise in the Delorme and Oxford techniques. EVMS Research Day, Spring 1996.

Magazine Articles

Road Bike Action Magazine – Assistant Editor 2007 to present. (www.roadbikeaction.com)

Edwards J. Motocross over 30. Dirt Rider Magazine 1998; May: - 112-116.

Edwards J. Race Nutrition in motocross. Dirt Rider Magazine 1996; August: 46-48.

Edwards J. Aspirin, Caffeine and Ephedrine. Defense Tactics Newsletter 1995; January: 5-6.

COMMUNITY ACTIVITIES

Oral Board Examiner – Dr. Ho's Anesthesia Oral Board Prep Course

University of South Florida

ASA committee for Ambulatory surgery 2002.

ASA legislative conference on Capitol Hill. Lobbied with the FSA on Medicare and tort reform.

Florida Society of Anesthesiologists (FSA) delegate for USE 2001 — 2003.

Candidate for ASA resident student council for the position of secretary, 2001 ASA conference in New Orleans.

FSA board meetings Contributing author to the monthly departmental publication, 'The Lethean' in which current FSA issues are discussed.

University of Utah

Pre-participation physical examinations for Hunter High School, West Valley, UT, July 21, 1999 and February 1999.

Human Anatomy, teaching assistant for the medical students at University of Utah, 1999.

Pre-participation physical examinations for USA boxing regional amateur tournament, Salt Lake City, UT, May 1999.

University of Nevada at Las Vegas

Assistant to the team physician for Ladies Rebel basketball team 1998

Pre-Participation Examinations for UNLV athletes, April 1998

Medical Physician for Western Athletic Conference basketball tournament, 1998

Eastern Virginia Medical School

Project SMILE for pediatric brain cancer (Students Making it a Little Easier), Co-Director 1996.

EACH Project (Educating Adolescents for Careers in Health).

Villa La Paz clinic for the destitute in Chacalacayo, Peru, May 1997

Vice President for the Student National Medical Association, 1996 Delegate for SNMA annual meeting in Richmond, Virginia and Baltimore, Maryland, 1995, 1996.

CANDI! program volunteer - Children AIDS Network

Surgery Club, 1993 - 1996

University of California at Davis

Camp Counselor at Camp OKIZU for children and their siblings with cancer. 1992, 1993.

Cycling team (road and mountain bike) 1993

Victor Valley College

Tennis and Cross-country running teams 1990 and 1991

General chemistry Lab assistant 1991

Sports medicine history

UFC – Miesha Tate (UFC women’s champion), Gray Maynard, Todd Duffee, Bryan Caraway

Motocross – Zach Osborne, Matt Goerke, Weston Peick, Ricky Brabec, Rick Johnson, please see www.docedwardsfitness.com for full list.

Rally Racing

2004-2007 Dakar Rally team doctor with USA KTM Red Bull team

2008 Dakar Rally team doctor with Robby Gordon Motorsports

2006 Published book called “Chasing Dakar – a guide to rally and adventure racing” (www.docedwardsfitness.com)

Bicycle racing

2004 – Present. Medical doctor for the 4 Days of Dunkirk race in France (warm up for the Tour de France)

2009 – 2012 Team Doctor for Fly V Australia professional team (Director Henk Voegels)

2012 Team doctor for Ag2r professional team during the Tour of California (director Gilles Mas)

2014 Team doctor for pro continental team Champion Systems (director Ed Beamon)

Road Bike Action Magazine – contributing editor. 2007 to present

Monthly column “Ask the Coach”

Several published articles and race reports (see www.roadbikeaction.com)