

Curriculum Vitae

Last Updated: 05/18/2023

PERSONAL DATA

Name: Dustin E. Coyle, M.D.
Birth Place: Salt Lake City, UT
Citizenship: United States

EDUCATION

<u>Years</u>	<u>Degree</u>	<u>Institution (Area of Study)</u>
2002 - 2005	Resident	University of Utah School of Medicine (Anesthesiology) Salt Lake City, UT
2001 - 2002	Intern	Nationwide (Columbus) Children's Hospital/OSU (Pediatrics) Columbus, OH
1997 - 2001	M.D.	University of Utah School of Medicine (Medicine) Salt Lake City, UT
1995 - 1997	B.S.	University of Utah (Biology) Salt Lake City, UT
1993 - 1996	Associates	Salt Lake Community College Murray, UT

BOARD CERTIFICATIONS

04/28/2006 - 12/31/2026 American Board of Anesthesiology, Certified
01/07/2011 - 06/30/2020 National Board of Echocardiography (Perioperative Transesophageal Echocardiography), Testamur

CURRENT LICENSES/CERTIFICATIONS

2020 - Present DEA Certificate (CA) - Physician (MD)
2020 - Present Medical Board of California: State License (CA) - Physician (MD)
2011 - Present Pediatric Advanced Life Support
2010 - Present Advanced Cardiac Life Support
2002 - Present Utah DOPL: State License (UT) - Physician (MD)
2002 - Present Controlled Substance (UT) - Physician (MD)

UNIVERSITY OF UTAH ACADEMIC HISTORY

Anesthesiology, 08/01/2007 - 07/15/2020

07/01/2015 - 07/15/2020 Associate Professor (Clinical)
08/01/2007 - 06/30/2015 Assistant Professor (Clinical)

Anesthesiology, 04/01/2006 - 07/31/2007

04/01/2006 - 07/31/2007 Adjunct Instructor

PROFESSIONAL EXPERIENCE

Full-Time Positions

2021 - 2022	Anesthesiologist, Envision Physician Services, Temecula, CA
2020 - 2021	Anesthesiologist, Anesthesia Consultants of California Medical Group, Escondido, CA
2007 - 2020	Associate Professor, University of Utah Department of Anesthesiology, Salt Lake City, UT
2007 - 2008	Staff Anesthesiologist, Jordan Valley Hospital, Salt Lake City, UT
2006 - 2009	Staff Anesthesiologist, Shriners' Hospital for Children Intermountain, Salt Lake City, UT
2006 - 2007	Adjunct Assistant Professor, University of Utah, Salt Lake City, UT
2005 - 2007	Staff Anesthesiologist/Co-medical Director, SouthTowne Surgery Center, Salt Lake City, UT

Part-Time Positions

2022 - Present	Anesthesiologist, Bay Area Mobile Anesthesia, Sacramento, CA
2022 - Present	Anesthesiologist, Anesthesia Services Medical Group, San Diego, CA
2020 - Present	Owner/operator, PalomarKLN Infusion Center, San Marcos, CA
2010 - 2014	Staff Anesthesiologist, Veteran's Affairs Medical Center, Salt Lake City, UT
2005 - 2006	Staff Anesthesiologist, HealthSouth Surgery Center of Park City, Park City, UT
2005 - 2007	Staff Anesthesiologist, HealthSouth Salt Lake Surgical Center, Salt Lake City, UT

ADMINISTRATIVE EXPERIENCE

Administrative Duties

2009 - 2018	Residency Work Hours Compliance Officer, University of Utah Department of Anesthesiology: Oversaw resident work hour violations and compliance by tracking times and coordinating compliance along side the Residency Program Director and Chairman. During my time in this position, unjustified work hours violations for our department became nearly non-existent.
2005 - 2007	Co-Medical Director, SouthTowne Surgery Center. Oversaw medical decision making for the surgery center, devised and instituted policies and procedures to comply with JCAHO certification.

PROFESSIONAL COMMUNITY ACTIVITIES

2013 - 2014	Physician Lecturer, Kwame Nkrumah University of Science and Technology, Department of Anaesthesiology and Intensive Care, College of Health Sciences, Kumasi, Ghana. Temporarily appointed as adjunct faculty lecturer to allow me to supervise our own residents, who are now able to do international rotations in the healthcare setting at Komfo Anokye Teaching Hospital.
2008	Consultant & Expert Witness, Utah Division of Occupational and Professional Licensing, Prelitigation Panel
2005 - 2014	Volunteer Faculty, Kwame Nkrumah University of Science and Technology, Education Exchange, Komfo Anokye Teaching Hospital, Ghana, West Africa. Helped organize and lecture at an annual anesthesia refresher course for nurse anesthetists, as well as provide clinical service and teaching in the operating rooms, mostly doing anesthesia for pediatric ophthalmology and urology procedures.

UNIVERSITY COMMUNITY ACTIVITIES

University Level

2015 - 2020 Member, Technology Commercialization Office, TVC Engine Committee. Assist in helping commercialize technologies developed at the University of Utah by leading company strategy, exploring investment opportunities, and providing technical guidance and assistance.

University of Utah Health

02/2022-Present Volunteer Anesthesiologist, John A. Moran Eye Center, Anesthesia services for pediatric ophthalmology in Tanzania

College Level

2018 - 2020 Faculty Member, School of Medicine, Faculty Assistance Subcommittee for Educational Technology. Evaluate and recommend technologies that impact teaching and learning at the UUSOM.

2015 - 2020 Committee Member, University of Utah Global Health Alliance, Multi-Professional Collaboration Sub-Committee

2008 Committee Member, Office of Graduate Medical Education, Continuous Education Improvement Committee; represented my department on this committee that was put together to explore options and ideas for implementing the new resident work hours restrictions.

Department Level

2019 - 2020 Member, Anesthesiology, Scheduling Committee. Set rules/guidelines for departmental scheduling requests

2016 - 2020 Mentor, Bioengineering, Mentoring BioDesign team in development of TIVA drip alarm

Programs, Centers & Institutes

2017 - 2019 Mentor, Center for Medical Innovation, Bench-to-Bedside competition. Entered an invention idea in B2B competition; mentoring team of MBA students and bioengineers who are developing a prototype

2014 - 2015 Mentor, Center for Medical Innovation, Bench-to-Bedside competition. Entered an invention idea in B2B competition; mentoring team of medical students and bioengineers who are developing a prototype

CURRENT MEMBERSHIPS IN PROFESSIONAL SOCIETIES

American Society of Anesthesiologists
American Society of Regional Anesthesia
California Society of Anesthesiologists
Society for Pediatric Anesthesia

FUNDING

Past Grants

- 04/23/18 - 06/30/20 Development of a Small, Cost-Effective, Disposable, IV Drip Monitor for Use in the OR
Principal Investigator(s): Dustin E. Coyle
Direct Costs: \$4,500 Total Costs: \$4,500
University of Utah Department of Anesthesiology
Role: Principal Investigator
- 04/22/16 - 02/02/17 Development of a Novel Bite Block for Use in the Operating Room
Principal Investigator(s): Dustin E. Coyle
Direct Costs: \$4,000 Total Costs: \$4,000
University of Utah Department of Anesthesiology
Role: Principal Investigator
- 11/19/14 - 05/31/15 NSF I-corps Seed Grant
Principal Investigator(s): Dustin E. Coyle
Direct Costs: \$3,000 Total Costs: \$3,000
University of Utah Center for Medical Innovation
Role: Principal Investigator
- 03/04/14 - 05/31/15 THE EFFECTS OF VARIOUS MU AGONISTS AND ANTAGONISTS INCLUDING NALBUPHINE ON BREAST CANCER CELLS
Principal Investigator(s): Dustin E. Coyle
Direct Costs: \$3,000 Total Costs: \$3,000
University of Utah Department of Anesthesiology
Role: Principal Investigator

CLINICAL STUDIES

- 2006 - 2007 Sub-Investigator, Physicians's Research Options, LLC (PRO), Post-operative Study to Investigate Emesis (POSTIVE).
- 2006 - 2007 Clinical Sub-Investigator, Physician's Research Options, LLC (PRO), A Phase 3 Open-label, Single-arm Study To Assess the Safety of Aquavan Injection For Minimal to Moderate Sedation in Patients Undergoing Minor Surgical Procedures.
- 2005 - 2007 Clinical Sub-Investigator, Physician's Research Options, LLC (PRO), A Randomized, Double-blind, Parallel Group, Balanced, Stratified, Phase 3 Study to Evaluate the Efficacy and Safety of Single Doses of Palonosetron 0.025mg, 0.05mg, and 0.075mg Versus Placebo in Outpatients to Prevent Post-operative Nausea and Vomiting Following Elective Abdominal or Gynecological Laparoscopic Surgery.

TEACHING RESPONSIBILITIES/ASSIGNMENTS

Course Lectures

- 2018 Preceptor, BIOEN 6110: Biomedical Technology in Anesthesia, University of Utah, Bioengineering, Preceptor for bioengineering student in the OR, introducing them to the OR setting and anesthetic technology and monitoring
- 2014 Facilitator, IPE: Disaster Management - MS2016 IPE Disaster Management, University of Utah, Anesthesiology, MS2016 IPE Disaster Management
- 2014 Instructor, IPE Hospitalized Patient Care, : IPE SIM Hosp Patient UUHSC 6601 - IPE Hospitalized Patient Care
- 2014 Instructor, IPE Hospitalized Patient Care, : IPE SIM Hosp Patient UUHSC 6601 - IPE Hospitalized Patient Care

- 2014 Instructor, UUHSC 5700-003: UUHSC 6701: IPE Simulation of Ambulatory Care, UUHSC 570003: IPE SIM Ambulatory Care - UUHSC 6701: IPE Simulation of Ambulatory Care
- 2014 Instructor, UUHSC 5700-003: UUHSC 6701: IPE Simulation of Ambulatory Care, UUHSC 570003: IPE SIM Ambulatory Care - UUHSC 6701: IPE Simulation of Ambulatory Care
- 2013 Instructor, UUHSC 5700-003: UUHSC 6701: IPE Simulation of Ambulatory Care, UUHSC 570003: IPE SIM Ambulatory Care - UUHSC 6701: IPE Simulation of Ambulatory Care
- 2013 Instructor, UUHSC 5700-003: UUHSC 6701: IPE Simulation of Ambulatory Care, UUHSC 570003: IPE SIM Ambulatory Care - UUHSC 6701: IPE Simulation of Ambulatory Care
- 2013 Instructor, 5600: IPE SIM Hosp Patient - IPE Faculty Facilitator Training, University of Utah, Serving as a group facilitator for simulation and debriefing for medical, nursing, pharmacy, audiology, physical therapy, speech therapy, and occupational therapy students.

Small Group Teaching

- 12/2012-04/2015 Simulation Faculty Facilitator for Interprofessional Education
- 03/31/10 Facilitator for resident teaching session in Department of Anesthesia Patient Simulation Center, "Pediatric Airway Emergencies"
- 05/2008-Present Facilitator for medical student teaching sessions in Department of Anesthesia Patient Simulation Center: Airway adjuncts, central lines, arterial lines, and spinals.
- 04/2008 Facilitator for resident teaching session in Department of Anesthesia Patient Simulation Center, "Pediatric Zebras"
- 04/2008 Facilitator for mock oral board exam for anesthesia residents

Mentoring/Advising

Resident

- 2011 - 2014 Advisor/Mentor, Ben Risenmay, University of Utah, Department of Anesthesiology Faculty Advisor
Trainee's Current Career Activities: Recently graduated anesthesiology resident who went on to private practice
- 2008 - 2011 Advisor/Mentor, Travis Bond, University of Utah, Department of Anesthesiology Faculty Advisor
Trainee's Current Career Activities: Practicing, Board-certified anesthesiologist, Fellowship in Pediatric Anesthesiology at Cincinnati Children's Hospital 2011-12.

Undergraduate

- 2018 Advisor/Mentor, Danielle Pompa, University of Utah, Operating room preceptor for bioengineering student for Biomedical Technology in Anesthesia course.
Trainee's Current Career Activities: Bachelor of Applied Science in Biomedical Engineering program at the University of Utah, Research and Development Intern at Becton Dickinson.

- 2015-2016 Advisor/Mentor, Imaobong Peters, American International University West Africa (Gambia), Advised and mentored international nurse anesthetist student writing dissertation.
Trainee's Current Career Activities: Gambian nurse anesthetist
- 2013-2014 Advisor/Mentor, Isha Gaye, American International University West Africa (Gambia), Advised and mentored international nurse anesthetist student writing dissertation on anesthetic care of the geriatric patient.
Trainee's Current Career Activities: Gambian nurse anesthetist

Didactic Lectures

- 2018 - 2020 Non-Operating Room Anesthesia
2017 - 2020 Office-based Anesthesia
2014 - 2020 IV Anesthetics/Sedatives/Analgesics

Internal Teaching Experience

- 2015 08/27/15 Anesthesiology Research Conference "EEG Effects of Mid and High Dose Ketamine in Humans"
2015 05/07/15 Anesthesiology Research Conference "The direct affects of mu opioid agonists and antagonists, including nalbuphine, on breast cancer cells"

BOOK CHAPTERS

1. **Coyle D**, Dull R (2015). Cytochrome 2B. In Marucci C, Hutchens M, Wittwer ED, Weingarten TN, Sprung J, Nicholson WT, Lalwani K, et al. (Eds.), *A Case Approach to Perioperative Drug-Drug Interactions*. Springer.
2. **Coyle D**, Dull R (2015). P-glycoprotein and OATP. In Marucci C, Hutchens M, Wittwer ED, Weingarten TN, Sprung J, Nicholson WT, Lalwani K, et al. (Eds.), *A Case Approach to Perioperative Drug-Drug Interactions*. Springer.
3. Dustin Coyle (2014). Premedicants. In Ken Johnson (Ed.), *Clinical Pharmacology in Anesthesiology*. McGraw Hill.

ADDITIONAL PUBLICATIONS

Others

1. Dustin Coyle (2012). A Rational, Evidence-based Approach to Non-opioid Anesthesia. *iCollaborative Association of American Medical Colleges (AAMC)*.

PENDING PUBLICATIONS

POSTER PRESENTATIONS

- 2015 Dustin Coyle MD, Jill Shea PHD, Jayant Agarwal MD, Tyler Call MD. *Direct Effects of Various Mu Opioid Agonists and Antagonists, Including Nalbuphine, on Breast Cancer Cells*. Poster session presented at 3rd Global Conference on Perioperative Medicine: Care of the Cancer Patient, Amsterdam, Netherlands.

ORAL PRESENTATIONS

Meeting Presentations

International

- 2010 7th annual refresher course for nurse anesthetists on "Update in Anesthesia", Komfo Anokye Teaching Hospital, Kumasi, Ghana
- 2008 5th annual refresher course for nurse anesthetists on "Updates in Anesthesia", Komfo Anokye Teaching Hospital, Kumasi, Ghana; Presenter "Cardio-cerebral Resuscitation: A New Approach To An Old Topic" and "Anesthesia Monitors and Equipment"
- 2007 4th annual refresher course for nurse anesthetists on "Emergency Anesthesia and Cardiopulmonary Resuscitation", Komfo Anokye Teaching Hospital, Kumasi, Ghana; Presenter "Basic Life Support: A New Approach To An Old Topic" and "Pre-Hospital Treatment of the Trauma Patient"
- 2006 3rd annual refresher course for nurse anesthetists on "Anesthetic Management of Adult and Pediatric Trauma", Komfo Anokye Teaching Hospital, Kumasi, Ghana; Presenter "Pre-Hospital Management of the Trauma Patient" and "Neonatal Resuscitation/Pediatric ACLS"
- 2005 2nd annual refresher course for nurse anesthetists on "Obstetric and Pediatric Anesthesia", Komfo Anokye Teaching Hospital, Kumasi, Ghana; Presenter "Anesthetic Management for Pre-eclampsia and Third Trimester Bleeding", "Preparation, Premedication, and Induction for Pediatric Anesthesia", and "Neonatal Resuscitation"

National
2010

University of Utah Department of Anesthesiology 55th Annual Update in Anesthesiology Postgraduate Review Course; moderator

INTELLECTUAL PROPERTY

Patents

- In Press (In Press). Bite Blocks and Endotracheal Intubation Systems
- In Press , Creech C, Dobson D, McKenzie K, Larsen R, Brown T (In Press). Intravenous Drip Chamber Monitoring Systems
- 05/17/2019 Todd Brown, Dustin Coyle, Colton Creech, Dalton Dobson, Richard Larsen, Kaden McKenzie (Pending). INTRAVENOUS DRIP CHAMBER MONITORING SYSTEMS. United States
- 04/06/2018 Dustin Coyle (Pending). Total intravenous anesthesia drip chamber alarm. United States
- 10/01/2015 Dustin E. Coyle (2015). Bite Blocks and Endotracheal Intubation Systems. United States

Copyrights

- 01/24/2017 Dustin E. Coyle, Phillip M. Parkinson (2017). Self-sealing Face Mask
- 04/20/2015 Dustin E. Coyle (2015). Total Intravenous Anesthesia (TIVA) Drip Chamber Alarm
- 03/25/2014 Dustin E. Coyle (2014). Endotracheal Tube (ETT) with Built-in Bite Block

OTHER SCHOLARLY ACTIVITIES

Additional Research/Scholarship Contributions

2021 - Present	Expert witness
2017 - 2020	Worked with TVC on novel anesthesia facemask modification
2015 - 2020	Started "Today's Question" with anesthesiology residents
2015 - 2020	Worked with TVC on development of intravenous drip alarm
2014 - 2017	Worked with Technology, Venture, & Commercialization Office to develop a novel modification to the endotracheal tube
2012 - 2020	Member of Daybreak surgery center faculty anesthesia team for U. of Utah Department of Anesthesiology; provided opportunity to do more pediatric cases.
2010 - 2020	Member of Moran Eye Center faculty anesthesia team for U. of Utah Department of Anesthesiology; provided opportunity to do more pediatric cases.
2009 - 2020	Self-directed learning: perioperative echocardiography. Learned by reading literature, spending time in echo labs with colleagues, and performing intra-operative echos on patients; passed basic perioperative trans-esophageal echo certification exam.
2007 - Present	Special interest in non-opioid adjuncts for pain management; serve as a resource to colleagues on specific pain adjuncts (ketamine, dexmedetomidine).
2005 - Present	Special interest in Pediatric Anesthesiology; was on teams that did pediatric cases in the burn unit, and radiation oncology.