

CURRICULUM VITAE
JONATHAN M. TAN, M.D., M.P.H., M.B.I., C.M.Q.
MARCH 2021

PERSONAL INFORMATION:

Work

The Children's Hospital of Los Angeles
Dept of Anesthesiology Critical Care Medicine
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Home

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Citizenship: United States of America

EDUCATION AND PROFESSIONAL APPOINTMENTS

EDUCATION:

1999 Regents Diploma with Honors, Syosset High School, Syosset, NY.
2003 B.A. Biology / B.A. Health and Society with Highest Distinction and Honors in Research,
University of Rochester, Rochester, NY.
2005 M.P.H., Health Policy and Administration, Yale University School of Epidemiology and Public
Health, New Haven, CT.
2009 M.D., SUNY Stony Brook School of Medicine, Stony Brook, NY.
2018 M.B.I., Biomedical Informatics, Oregon Health & Science University School of Medicine,
Portland, OR.

POST-GRADUATE TRAINING:

2009-2010 Internship/Clinical Base Year, Department of Anesthesiology, Stony Brook University Medical
Center, Stony Brook, NY.
2010-2012 Resident, Anesthesiology, Department of Anesthesiology, Stony Brook University Medical
Center, Stony Brook, NY.
2012-2013 Chief Resident, Anesthesiology, Department of Anesthesiology, Stony Brook University
Medical Center, Stony Brook, NY.
2013-2014 Fellow, Pediatric Anesthesiology, Department of Anesthesiology, Children's Hospital of
Pittsburgh, University of Pittsburgh Medical Center, Pittsburgh, PA.
2014-2015 The Joseph E. Robert, Jr. Fellowship in Pediatric Surgical Innovation, The Sheikh Zayed
Institute for Pediatric Surgical Innovation, Children's National Health System, Washington, DC.

ACADEMIC APPOINTMENTS:

2009-2013 Clinical Assistant Instructor Department of Anesthesiology, Stony Brook University Medical
Center, Stony Brook, NY.
2014-2015 Research Instructor Department of Pediatrics, George Washington University
School of Medicine and Health Sciences, Washington, DC.

2014-2015	Clinical Associate	Division of Anesthesiology, Sedation and Perioperative Medicine, Children's National Health System, Washington, DC.
2015-2020	Assistant Professor	Department of Anesthesiology and Critical Care, The Children's Hospital of Philadelphia, Philadelphia, PA.
2015-2020	Assistant Professor	Department of Anesthesiology and Critical Care, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA.
2016-2020	Assistant Professor	Department of Biomedical and Health Informatics, The Children's Hospital of Philadelphia, Philadelphia, PA.
2016-2020	Senior Fellow	Leonard Davis Institute for Health Economics, The University of Pennsylvania, Philadelphia, PA.
2016-2020	Senior Fellow	Penn Center for Public Health Initiatives, The University of Pennsylvania, Philadelphia, PA.
2017-2020	Senior Scholar	Penn Center for Perioperative Outcomes and Research Transformation (CPORT), The University of Pennsylvania, Philadelphia, PA.
2020-Present	Assistant Professor	Department of Anesthesiology, Keck School of Medicine at the University of Southern California, Los Angeles, CA.
2020-Present	Assistant Professor	Department of Anesthesiology Critical Care Medicine, Division of Anesthesiology, Children's Hospital Los Angeles, Los Angeles, CA.

CLINICAL APPOINTMENTS:

2009-2013	Clinical Assistant Instructor	Department of Anesthesiology, Stony Brook University Medical Center, Stony Brook, NY.
2014-2015	Attending Pediatric Anesthesiologist	Division of Anesthesiology, Sedation and Perioperative Medicine, Children's National Health System, Washington, DC.
2015-2020	Attending Pediatric Anesthesiologist	Department of Anesthesiology and Critical Care, The Children's Hospital of Philadelphia, Philadelphia, PA.
2015-2020	Attending Pediatric Anesthesiologist	Department of Anesthesiology and Critical Care, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA.
2020-Present	Attending Pediatric Anesthesiologist	Department of Anesthesiology Critical Care Medicine, Division of Anesthesiology, Children's Hospital Los Angeles, Los Angeles, CA.

ADMINISTRATIVE APPOINTMENTS:

2012-2013	Chief Resident	Department of Anesthesiology, Stony Brook University Medical Center, Stony Brook, NY.
2016-2020	Elected Committee Member	Research Council, Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia, Philadelphia, PA.
2018-2020	Committee Member	Quality and Safety Committee, Department Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia, Philadelphia, PA.
2020-Present	Committee Member	Quality Assurance and Quality Improvement Committee, Division of Anesthesiology, Department of Anesthesiology Critical Care Medicine, Children's Hospital Los Angeles, Los Angeles, CA.

2021-Present	Elected Committee Member	Research Oversight Committee, Department of Anesthesiology Critical Care, Children's Hospital Los Angeles, Los Angeles, CA.
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LICENSURE, CERTIFICATIONS

LICENSURE:

5/12/2014-12/31/2016	MD042208, District of Columbia, Expired
4/1/2018-12/31/2018	Republic of Kenya, Expired
5/17/2018-6/30/2021	25MA10352700, New Jersey, Active
6/25/2013-12/31/2020	MD449265, Pennsylvania, Active
8/28/2020-8/31/2022	C17009, California, Active

BOARD CERTIFICATION OR ELIGIBILITY:

2014	Diplomate, American Board of Anesthesiology, Raleigh, NC. – Status: Active
2014	Diplomate, Subspecialty Certification in Pediatric Anesthesiology, American Board of Anesthesiology, Raleigh, NC. – Status: Active
2019	Diplomate, Subspecialty Certification in Clinical Informatics, American Board of Preventive Medicine, Chicago, IL. – Status: Active

SPECIALTY CERTIFICATION:

2015	Certified in Medical Quality, American Board of Medical Quality – Status: Active
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OTHER CERTIFICATIONS OR EXAMINATIONS:

2006-Current	BLS Certification, Expires: 2/2022
2006-Current	ACLS Certification, Expires: 2/2022
2010-Current	PALS Certification, Expires: 2/2022
2012-2014	Neonatal Resuscitation Program, Expired

HONORS, AWARDS:

2000	National Science Foundation Research Experience for Undergraduate Fellowship Award	National Science Foundation, Alexandria, Virginia
2002	Golden Key International Honour Society (and Chapter President)	Golden Key International Honour Society, Atlanta, GA
2003	Phi Beta Kappa Honor Society	The Phi Beta Kappa Society, Washington, DC
2003	Magna Cum Laude	The University of Rochester, Rochester, NY
2003	Graduated with Highest Distinction and Honors in Research	The University of Rochester, Rochester, NY
2003	Alice DeSimone Student Life Award	The University of Rochester, Rochester, NY

2003	Charles E. Phelps Prize for Best Senior Thesis	Awarded by the Provost of the University of Rochester, Rochester, NY
2003	Deans Scholarship for Academic Achievement	Yale University School of Epidemiology and Public Health, New Haven, CT
2004	John D. Thompson Research Award	Yale University School of Epidemiology and Public Health, New Haven, CT
2006	Foundation for Anesthesia Education and Research (FAER) Medical Student Research Fellowship	Foundation for Anesthesia Education and Research (FAER), Schaumburg, IL
2008	Gold Foundation for Humanism in Medicine Honor Society	The Arnold P. Gold Foundation and SUNY Stony Brook School of Medicine, Englewood Cliffs, NJ
2009	United University Professions Community Service Award	United University Professions, Stony Brook Health Sciences Center and SUNY Stony Brook School of Medicine, Stony Brook, NY
2009	Stony Brook HOME (Health Outreach and Medical Education) Distinguished Student Service Award	SUNY Stony Brook School of Medicine, Stony Brook, NY
2010	Resident Teacher of the Year Award	Department of Anesthesiology, Stony Brook University School of Medicine, Stony Brook, NY
2010	Resident Award for Excellence in Medical Student Teaching	Department of Anesthesiology, Stony Brook University School of Medicine, Stony Brook, NY
2011	Resident Team Player of the Year Award	Department of Anesthesiology, Stony Brook University School of Medicine, Stony Brook, NY
2012	Resident Award for Excellence in Medical Student Teaching	Department of Anesthesiology, Stony Brook University School of Medicine, Stony Brook, NY
2012	Chief Resident	Department of Anesthesiology, Stony Brook University School of Medicine, Stony Brook, NY
2014	Joseph E. Marcy MD Memorial Fellow Award for Clinical Excellence	Department of Anesthesiology, Children's Hospital of Pittsburgh, University of Pittsburgh Medical Center, Pittsburgh, PA
2016	Engineering Challenge Winner	Society for Technology in Anesthesia Annual Meeting, Palm Beach, FL
2016	Perfect Resident Teaching Score	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia and The University of Pennsylvania, Philadelphia, PA
2017	Perfect Resident Teaching Score	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia and The University of Pennsylvania, Philadelphia, PA

2018	Mentored Research Award: AAP John J. Downes Research Award Oral Presentation	Society for Pediatric Anesthesia Annual Meeting, (Miguel Yapor, MD – University of Pennsylvania Anesthesia Resident), Phoenix, AZ
2018	3rd Place Team for Excellence in Quality and Safety Award	Eighth Annual Quality and Patient Safety Day, The Children's Hospital of Philadelphia, Philadelphia, PA
2018	Top 10 Best Abstracts for Research	European Society for Paediatric Anaesthesiology Annual Meetin Brussels, Belgium
2019	Best Clinical Application Abstract Award	Society for Technology in Anesthesia Annual Meeting, Scottsdale, AZ
2019	Good Catch Clinical Award for Patient Safety	The Children's Hospital of Philadelphia, Philadelphia, PA
2019	ICARE Champion Award (Integrity, Compassion, Accountability, Respect and Excellence)	The Children's Hospital of Philadelphia, Philadelphia, PA
2019	Pediatric Anesthesiology: Editor's Picks for Anesthesia and Analgesia	American Society of Anesthesiology Annual Meeting, Orlando, FL
2020	Best Pediatric Anesthesia Research: Editor's Pick for Anesthesia & Analgesia and Pediatric Anesthesia	SPA-AAP Pediatric Anesthesiology Annual Meeting, Atlantis, Paradise Island, Bahamas
2020	COVID-19 Rapid Response Award	Leonard Davis Institute of Health Economics at the University of Pennsylvania, Philadelphia, PA

TEACHING

DIDACTIC TEACHING:

University of Rochester

2001-2003	Organic Chemistry I	10 Hours / Week	Teaching Fellow
2001-2003	Organic Chemistry II	10 Hours / Week	Teaching Fellow

Yale University School of Epidemiology and Public Health

2004-2005	Decision Making and Cost-Effectiveness	10 Hours / Week	Teaching Fellow
2005	Data Management and Analysis	10 Hours / Week	Teaching Fellow

Stony Brook University School of Medicine

2007	Epidemiology and Biostatistics in Medicine		Teaching Assistant
2009-2011	Rising Leaders in Medicine		Lecturer on health economics and decision making in Medicine
2010-2013	Clinical Procedural Skills Course for Medical Students		Lecturer and workshop assistant

University of Pittsburgh School of Medicine

2014	Clinical Skills and Airway Management for Medical Students and Front Line Providers		Lecturer and simulation teacher for pediatric anesthesia and airway management
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The Children's Hospital of Philadelphia / The Perelman School of Medicine at the University of Pennsylvania

2015-2020	"Peripheral Nerve Blocks for Pediatric Patients," Anesthesiology Resident Lecture	Bi-Monthly	Lecturer
2015-2017	"Cost-Effectiveness and Decision Making in Medicine," Pediatric Anesthesiology Fellowship Lecture	1 Hour / Year	Lecturer
2017-2019	"Occupational Hazards and the Operating Room," Pediatric Anesthesiology Fellowship Lecture	1 Hour / Year	Lecturer
2018-2020	"Controversies and Decision Making in Pediatric Anesthesia Cases: Comparison of the Literature and Practice Variation at Major Academic Children's Hospitals," Pediatric Anesthesiology Fellowship Lecture	1 Hour / Year	Lecturer
2018	"Epidemiologic Approaches to Education in Pediatric Anesthesiology in Kenya: A Population Based Approach to Medical Education," Lecture in Global Health Projects Series	1 Hour/Year	Lecturer
2019-2020	"Value-Based Healthcare and Health Economic Analysis," Pediatric Anesthesiology Fellowship Lecture	1 Hour / Year	Lecturer

Children's Hospital Los Angeles / Keck School of Medicine at the University of Southern California

2021-Current	"Informatics and Data Analytics in Quality Improvement," Pediatric Anesthesiology and Critical Care Fellowship Quality Improvement Education Course	1 Hour / Year	Lecturer
2021-Current	"Peripheral Nerve Blocks for Pediatric Patients," Anesthesiology Resident Lecture	Bi-Monthly	Lecturer

AIC Kijabe Hospital / Vanderbilt University Department of Anesthesiology

2018	"Anesthesia care for the pediatric neurosurgery patient"	1 Hour	Lecturer
2018	"Anesthesia for neonates and infants: International perspectives and considerations"	1 Hour	Lecturer
2018	"Anesthesia considerations for pediatric general surgery: An epidemiology approach to case-based global health education"	1 Hour	Lecturer
2018	"Anesthesia considerations for neonates with congenital heart disease for non-cardiac surgery"	1 Hour	Lecturer
2018	"Management of Pediatric Anesthesia Emergencies: Optimizing resources and teams in limited resource situations"	1 Hour	Lecturer
2019	"Pre-operative Risk Assessment and Resource Considerations for Managing Children with Congenital Heart Disease for Non-Cardiac Surgery"	1 Hour	Lecturer
2019	"Management of Pediatric Anesthesia Emergencies: Optimizing Resources and Teams in Low- and Middle-Income Countries"	1 Hour	Lecturer
2019	"Pediatric Advanced Life Support (PALS): How to save a little life...with limited operating room resources"	1 Hour	Lecturer

University of Nairobi - Pediatric Anesthesiology Fellowship Program

2018	“Anesthesia considerations for neonatal surgical emergencies: An epidemiology approach to case-based global health education”	1 Hour	Lecturer
2018	“Pediatric Anesthesia: Global Perspectives on Local Cases”	1 Hour	Lecturer
2019	“Anesthesia Management of Pediatric Airway Foreign Body in Low- and Middle-Income Countries”	1 Hour	Lecturer
2019	“Management of Pediatric Anesthesia Emergencies: Optimizing Resources and Teams in Low- and Middle-Income Countries”	1 Hour	Lecturer
2019	“Pediatric Advanced Life Support (PALS): How to save a little life...with limited operating room resources”	1 Hour	Lecturer
2019	“Pediatric Airway Management: Basic, Advanced and Emergencies in Low- and Middle-Income Countries”	4 Hours	Instructor

CME COURSES DEVELOPED

Society for Technology in Anesthesia

2018	Society for Technology in Anesthesia Annual Meeting, “Data Driven Innovation and Technology in Anesthesia”	21.25 AMA PRA Category I Credits	Program Co-Chair
2018	Society for Technology in Anesthesia Annual Meeting, “Data Driven Innovation and Technology in Anesthesia”	9.25 LLSA Credits for ABPM MOC Part II (Clinical Informatics)	Program Co-Chair

UNDERGRADUATE, GRADUATE AND MEDICAL STUDENT (OR OTHER) MENTORSHIP:

2017-2019	Andrew Becker, MD MPH	MD/MPH Student – University of Pennsylvania School of Medicine	“Geographic Analysis of Pay-for-Quality: Evaluating Readmission Risk by Proximity to Hospital” (MPH Thesis Advisor)
2020-Current	Phillip Quiroz, MD MPH	MD/MPH Student – Keck School of Medicine at the University of Southern California	(MPH Thesis Advisor)

POSTGRADUATE MENTORSHIP:

2015-2016	Lauren Lobaugh, MD	Assistant Professor of Anesthesiology, Texas Children's Hospital and Baylor College of Medicine
2016-2017	Loren Babirak, MD	Assistant Professor of Anesthesiology and Critical Care, The Children's Hospital of Philadelphia and the Perelman School of Medicine at the University of Pennsylvania
2016-2017	Michael P. Puglia II, MD PhD	Assistant Professor of Anesthesiology, Mott Children's Hospital and the University of Michigan
2016-2017	Kuntal R. Jivan, MD	Assistant Professor of Anesthesiology, Georgetown University School of Medicine
2016-2017	Ponney R. Palanisamy, MD	Associate Clinical Instructor of Anesthesiology, Perioperative Care and Pain Medicine, New York University Langone Health System
2017-2018	Olga F. Martins, MD	Staff Anesthesiologist, Department of Anesthesiology, Northwell Health Staten Island
2017-2018	Jordan M. Ruby, MD	Clinical Instructor of Anesthesiology, Weill Cornell Medical College and Attending Anesthesiologist at the Hospital for Special Surgery
2017-2018	Alicia A. Henderson, MD	Assistant Professor of Anesthesiology and Critical Care, The Children's Hospital of Philadelphia and the Perelman School of Medicine at the University of Pennsylvania
2017-2018	Sible Anthony, MD	Assistant Professor of Clinical Anesthesiology, Yale School of Medicine
2018-2019	Rodrigo Daly-Guris, MD	Assistant Professor of Anesthesiology and Critical Care, The Children's Hospital of Philadelphia and the Perelman School of Medicine at the University of Pennsylvania
2018-2019	Grace Shih, MD	Assistant Professor of Anesthesiology and Critical Care, The Children's Hospital of Philadelphia and the Perelman School of Medicine at the University of Pennsylvania
2017-2021	Andrew Becker, MD MPH	Resident Physician, Department of Anesthesiology and Critical Care, The University of Pennsylvania
2021-Current	Daniel Kang, MD	Resident Physician, Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital, Harvard University Medical School

SERVICE**DEPARTMENT SERVICE:**

2012-2013	Member, Core Curriculum Committee on Education	Department of Anesthesiology, Stony Brook University Medical Center
2012-2013	Member, Resident Admissions Committee	Department of Anesthesiology, Stony Brook University Medical Center
2015-2018	Interviewer, Pediatric Anesthesiology Fellowship Program	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2015-2020	Interviewer for prospective faculty candidates	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2015-2020	Member, Section of Biomedical Informatics	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2016-2018	Course Director, Pediatric Anesthesiology Fellowship Education Didactic Curriculum	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2016-2020	Elected Member, Research Council	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2016-2020	Member, Pediatric Anesthesiology Fellowship Program Leadership Group	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2016-2020	Member, Pediatric Anesthesiology Fellowship Program Evaluation Committee	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2017-2020	Member, Pediatric INQUIRE (Informatics, Quality Improvement and Research) Group	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2018-2020	Member, Committee on Quality and Safety	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2019-2020	Co-Lead on Quality Improvement Initiative, "Improving the appropriate utilization of cephalosporin antibiotics for surgical prophylaxis among penicillin allergic labeled pediatric patients"	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2019-2020	Member, Data Governance Committee	Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia
2020-Present	Member, Quality Assurance and Quality Improvement Committee	Division of Anesthesiology, Department of Anesthesiology Critical Care Medicine, Children's Hospital Los Angeles
2021-Present	Elected Member, Research Oversight Committee	Department of Anesthesiology Critical Care Medicine, Children's Hospital Los Angeles

MEDICAL SCHOOL SERVICE:

2005-2009	Co-Founder and Director, The Stony Brook Student Run Free Clinic	SUNY Stony Brook School of Medicine
2008-2009	Steering Committee Member, The Stony Brook Student Run Free Clinic	SUNY Stony Brook School of Medicine
2007-2009	Elected Member, Honor Code Committee	Dean's Office, SUNY Stony Brook School of Medicine

UNIVERSITY SERVICE:

2018-2020	Capstone Panelist, MPH Capstone Presentation Committee	MPH Program, Center for Public Health Initiatives, University of Pennsylvania
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PROFESSIONAL SERVICE:

2003	Health Policy Analyst	Children's Defense Fund, New York, NY
2004	Policy Analyst	Valley Women's Health Coordination Center at Griffin Hospital, Derby, CT
2004-2006	Clinical Outcomes and Quality Analyst	Bridgeport Community Health Center, Bridgeport, CT
2014-Present	Member, Committee on Biomedical Informatics & Technology	Society for Pediatric Anesthesia
2015-Present	Member, Committee on Quality & Safety	Society for Pediatric Anesthesia
2017-Present	Elected Member, Committee on Technology	Anesthesia Patient Safety Foundation
2019-Present	Member, Health and Medical Geography Specialty Group	American Association of Geographers
2019-Present	Member, Spatial Analysis and Modeling Specialty Group	American Association of Geographers
2019-Present	Member, Wake Up Safe	Wake Up Safe (The Pediatric Anesthesia Quality Improvement Initiative), Society for Pediatric Anesthesia
2019-Present	Ambassador, Social Media Committee	Society for Technology in Anesthesia
2019-Present	Chair, Communications Committee	Society for Technology in Anesthesia
2021-Present	Member, Diversity, Equity and Inclusion Committee	Society for Pediatric Anesthesia
2021-Present	Editorial Board, Visual Abstracts	<i>Anesthesiology</i>

CONSULTANTSHIPS AND ADVISORY BOARDS:

2015-2017	Clinical Advisor to the Founders/Board	SurMD/SurDoc Corp., Sunnyvale, CA
2015-2017	Clinical Fellow Advisor	Doximity, Inc., San Francisco, CA

PROFESSIONAL SOCIETY MEMBERSHIPS:

International

2009-2019 International Anesthesia Research Society

National

2003-2006 American Public Health Association
2009-Present American Society of Anesthesiologists
2012-Present Society for Pediatric Anesthesia
2015-Present Society for Technology in Anesthesia
2017-Present Anesthesia Patient Safety Foundation
2019-Present American Association of Geographers

Regional

2009-2013 New York State Society of Anesthesiologists
2009-2013 Suffolk County Medical Society
2013-2020 Pennsylvania Society of Anesthesiologists
2015-2017 District of Columbia Society of Anesthesiologists
2021-Current California Society of Anesthesiologists

COMMUNITY SERVICE:

2005-2009	Co-Founder and Director	Stony Brook HOME (Health Outreach and Medical Education, The Stony Brook Student Run Free Clinic, Stony Brook, NY	Co-Founder and Director of the first multidisciplinary student run free clinic on Long Island that is still in operations serving thousands of uninsured and low socioeconomic patients. Developed and employed electronic health records and analytics into patient care processes
2008-2009	Steering Committee Member	Stony Brook HOME (Health Outreach and Medical Education, The Stony Brook Student Run Free Clinic, Stony Brook, NY	Co-Founder and member of steering committee to evaluate and create strategy to support the financial and clinical success of the free clinic
2013	Volunteer Anesthesiologist	Uplift Internationale Medical Mission, Taghoy Facial Cleft Clinic, Siargao Island, Philippines	Medical volunteer for cleft palate and cleft lip mission trip. Cared for perioperative and intraoperative needs of pediatric patients
2014	Clinical Mentor	MIT/Harvard University Hacking Pediatrics Program – Hackathon 2.0, Boston, MA.	Invited volunteer advisor to provide clinical insight and support for Hackathon teams working on Pediatric health care data science and digital health solutions
2018	Volunteer Pediatric Anesthesiologist	AIC Kijabe Hospital & World Federation Society of Anesthesiologists Pediatric Anesthesiology Fellowship / Kijabe, Kenya	Medical volunteer caring for pediatric patients and didactic teaching of World Federation Society of Anesthesiologists Pediatric Anesthesiology Fellows and Kenya Registered Nurse Anesthesia students

2019	Volunteer Pediatric Anesthesiologist	AIC Kijabe Hospital & World Federation Society of Anesthesiologists Pediatric Anesthesiology Fellowship / Kijabe, Kenya	Medical volunteer caring for pediatric patients and didactic teaching of World Federation Society of Anesthesiologists Pediatric Anesthesiology Fellows and Kenya Registered Nurse Anesthesia students
2020	Volunteer	ASA/APSF COVID-19 Anesthesia Machines as ICU Ventilators Hotline	Served as volunteer on a hotline to receive technical and clinical questions regarding the conversion of Anesthesia machines to ICU ventilators during pandemic

RESEARCH AND SCHOLARSHIP

EDITORSHIPS AND EDITORIAL BOARDS:

2010-Present	Guest Editor	Journal of Anesthesia and Clinical Research
2019-Present	Editor-in-Chief	Interface, Newsletter of the Society for Technology in Anesthesia
2020-Present	Editorial Staff	Anesthesia Patient Safety Foundation (APSF) Newsletter – Technology Section

MANUSCRIPT REVIEW:

2009	The Journal of Perinatology
2010	The Lancet
2017	Anesthesiology
2017	Journal of Anesthesia and Clinical Research
2018	Health Policy and Technology
2019-Present	Applied Clinical Informatics
2019	Journal of Medical Systems
2019-Present	Journal of Medical Internet Research
2020-Present	International Journal of Population Data Science
2020-Present	Anesthesia and Analgesia Practice
2020-Present	BMJ Case Reports
2020-Present	Transactions in GIS
2021-Present	Canadian Journal of Anesthesia

MAJOR AREAS OF RESEARCH INTEREST

1. Spatial Analytics: Studying the impact of location and social determinants of health on the pediatric perioperative experience
2. Clinical Informatics and Pediatric Patient Safety
3. Epidemiology of Pediatric Anesthesia and Perioperative Care
4. Cost-Effectiveness and Decision Modeling in Medicine

GRANT SUPPORT - PAST:

Jonathan M. Tan, MD MPH MBI

FY 2006

FAER Medical Student Anesthesia Research Fellowship

Health Economic Analysis in Anesthesiology: Studying the Cost-Effectiveness of Neuraxial Analgesia for External Cephalic Version

- Mentored by Dr. Alex Macario and Dr. Brendan Carvalho at Stanford University, I conducted health economic analysis research in obstetric anesthesiology. Early exposure to academic anesthesiology was instrumental in my pursuit of research in anesthesiology and perioperative medicine.
- In this role, I conducted the cost-effectiveness analysis and cost-analysis models that utilized bayesian analysis and monte-carlo simulations in order to under the economics of neuraxial analgesia for obstetric procedures. This fellowship and grant support as a medical student, led to three peer-reviewed publications, four scientific abstracts, and three national podium presentations including at the FAER/ASA Annual Research Meeting, the prestigious Zuspan Award Presentation Session and Resident Award Session at the Society for Obstetric Anesthesia and Perinatology (SOAP) Annual Meeting.
- The FAER MSARF was a critical foundation for my pursuit of pediatric anesthesiology and research in perioperative medicine.

Jonathan M. Tan, MD MPH MBI (PI)

FY 2018

McCabe Fund Pilot Award and the University of Pennsylvania

Data-Driven Decision Support Using Geolocation and Socioeconomic Factors to Improve Pediatric Peri-Operative Access and the Patient Surgical Experience at a Children's Hospital

- Combined traditional data from electronic health records and non-traditional datasets from census and business intelligence to understand the impact of locaton and social determinants of health on the pediatric perioperative experience.
- Using spatial analytics and novel methods with the electronic health record system, we were able to predict neighborhoods of patients at highest risk for showing up late and not following pre-operative instructions.

Principal Investigator

\$22,966

Jonathan M. Tan, MD MPH MBI (PI)

FY 2020

Leonard Davis Institute of Health Economics at the University of Pennsylvania

Understanding the Risk of COVID-19 Exposure Based on a Strategy of Routine Pre-Procedure Screening During a Pandemic

- Reviewed COVID-19 screening test literature and created mathematical simulations to demonstrate the risks and benefits of pre-procedure COVID-19 screening
- Presented pragmatic solutions based on modeling findings to reduce the risk of false negative and improve healthcare worker and patient safety for patients undergoing anesthesia and surgical procedures

Principal Investigator

\$1,250

ISSUED AND PENDING PATENTS:

Tan JM, Cheng P. Remote Image Capture and Processing of the Tuberculosis (TB) Skin Test. U.S. Patent Application #62044151, filed August 2014. Patent Pending.

INVITED LECTURES, SYMPOSIA, KEYNOTE ADDRESSES

2006	Invited Lecture	“National Health Care: What do the People think?” Stony Brook University School of Medicine C3 (Culture, Competency, and Careers) Lecture Series, Stony Brook, NY
2009	Invited Lecture	“...Because its Cost-Effective?” Stony Brook University School of Medicine Rising Leaders in Health Care Lecture Series, Stony Brook, NY
2010	Invited Lecture	“Economic Analysis, Cost-Effectiveness and Medicine” Stony Brook University School of Medicine Rising Leaders in Health Care Lecture Series, Stony Brook, NY
2011	Invited Lecture	“Cost-Effectiveness in Medicine: An Introduction to Health Economics” Stony Brook University School of Medicine Rising Leaders in Health Care Lecture Series, Stony Brook, NY
2013	Invited Symposia	“Peri-Operative Staff and Hazards in the Operating Room” Stony Brook Medicine – Ambulatory Surgery Center Perioperative Staff, Stony Brook, NY
2016	Invited Lecture	“EEG Processing and Detecting Changes to Pulse Oximetry Monitoring” Society for Technology in Anesthesia Annual Meeting Engineering Challenge, West Palm Beach, FL
2016	Invited Lecture	“Pro: Millennial’s are unique and need to be taught differently” Pro/Con Debate, Society for Pediatric Anesthesia Annual Meeting, Colorado Springs, CO
2016	Invited Lecture	“Risk Factors Associated with Unanticipated Post-Operative Intubation Following Pediatric Surgery: Using the ACS NSQIP-Pediatric 2012-2014 Database to Understand and Improve Practice” American College of Surgery NSQIP Annual Meeting, San Diego, CA
2016	Invited Lecture	“Where You Live Matters: Using GIS and SES Factors to Improve Pediatric Peri-Operative Medicine” GIS User Group, PolicyLab, The Children’s Hospital of Philadelphia
2017	Invited Lecture / Problem Based Learning Moderator	“How to get an ‘A’ for a Nuss Procedure: Management of Arrhythmias, Arrests, Allergies and Analgesia!” Problem Based Learning Discussion at the SPA-AAP Pediatric Anesthesiology Annual Meeting, Austin, TX
2017	Invited Lecture / Problem Based Learning Moderator	“Is there a Doctor On-Board? – Unique Challenges of an In-Flight Emergency for Pediatric Patients” Problem Based Learning Discussion at the SPA 31 st Annual Meeting, Boston, MA
2019	Invited Workshop Leader	“Immersive Technologies in Perioperative Anxiety and Chronic Pain Management: Virtual and Augmented Reality” SPA Pediatric Anesthesiology Annual Meeting, Houston, TX
2019	Invited Lecture	“Applications of Geographic Information Systems (GIS) in Pediatric Health Access and Utilization: Current and Future Research Directions” The American Association of Geographers Annual Meeting, Washington, DC
2019	Invited Lecture	“Unique Anesthesia Considerations for Non-Cardiac Surgery for Children with Congenital Heart Disease in Low- and Middle-Income Countries” Kijabe Hospital 8th Annual Anesthesia Conference: Principles and Perspectives on Pediatric Anesthesia and Pain Management, Nyeri, Kenya
2019	Invited Lecture	“Anesthesia and Perioperative Management of Pediatric Syndromes and Development” Kijabe Hospital 8th Annual Anesthesia Conference: Principles and Perspectives on Pediatric Anesthesia and Pain Management, Nyeri, Kenya

2019	Invited Lecture	<p>“Laryngospasm and the Pediatric Patient with Upper Respiratory Infections in Limited Resource Environments”</p> <p>Kijabe Hospital 8th Annual Anesthesia Conference: Principles and Perspectives on Pediatric Anesthesia and Pain Management, Nyeri, Kenya</p>
2019	Invited Lecture	<p>“Advanced Pediatric Airway Management for Anesthesia Care in Low- and Middle-Income Countries”</p> <p>Kijabe Hospital 8th Annual Anesthesia Conference: Principles and Perspectives on Pediatric Anesthesia and Pain Management, Nyeri, Kenya</p>
2019	Invited Lecture	<p>“Applications of Geospatial Analysis and Electronic Health Records in a Children’s Hospital”</p> <p>18th International Medical Geography Symposium, Queenstown, New Zealand</p>
2019	Invited Lecture / Problem Based Learning Moderator	<p>“Pediatric Burn Trauma: Challenges in Anesthesia and Pain Management”</p> <p>SPA 33rd Annual Meeting, Orlando, FL</p>
2019	Invited Lecture	<p>“Leveraging Electronic Health Records and Administrative Datasets to Understand Social Determinants of Health: Opportunities and Challenges”</p> <p>4th International Conference on Administrative Data Research, Cardiff, UK</p>
2020	Invited Lecture	<p>“Geospatial Analysis and Location Intelligence Insights in Perioperative Care”</p> <p>Society for Technology in Anesthesia Annual Meeting, Austin, TX</p>
2020	Invited Workshop Leader	<p>“Immersive Technologies in Perioperative Anxiety and Chronic Pain Management: Virtual and Augmented Reality”</p> <p>SPA Pediatric Anesthesiology Annual Meeting, Atlantis, Paradise Island, Bahamas</p>
2020	Invited Lecture / Problem Based Learning Moderator	<p>“E-Cigarettes and the Pediatric Patient: What are you smoking?”</p> <p>SPA Pediatric Anesthesiology Annual Meeting, Atlantis, Paradise Island, Bahamas</p>
2020	Invited Lecture	<p>“Where You Live Matters: Leveraging Geographic Information Systems and Electronic Health Records to Improve Pediatric Perioperative Care”</p> <p>Session titled, “Advances and Applications of Technology in Pediatric Anesthesia: Apps, Analytics, Airways, Augmented Reality, and More,”</p> <p>International Anesthesia Research Society (IARS) Annual Meeting, San Francisco, CA (*Delayed due to COVID-19 Pandemic)</p>
2020	Invited Lecture	<p>“Spatial Linkage of Electronic Health Records and Census Data in a Children’s Hospital”</p> <p>International Population Data Linkage Network Conference, Adelaide, South Australia (Virtual Presentation)</p>
2020	Invited Lecture	<p>“Improving Antibiotic Choice for SSI Prophylaxis in Pediatric Patients Documented as Pencilin Allergic”</p> <p>SPA 34th Annual Meeting and Wake Up Safe Quality Improvement Fall Education Session, Washington, DC (Virtual Presentation)</p>
2021	Invited Lecture	<p>“Addressing Population Health with an Address: Using Geospatial Analysis to Improve Quality of Care in a Children’s Hospital”</p> <p>International Forum on Quality & Safety in Healthcare, London, UK (In Review)</p>
2021	Invited Lecture	<p>“Exploring the impact of air pollution exposure on pediatric anesthesia patients at a children’s hospital: Spatial Applications of Electronic Health Records”</p> <p>The American Association of Geographers Annual Meeting, Seattle, WA</p>

INVITED GRAND ROUNDS, CME LECTURES

2012	Grand Rounds	“Occupational Hazards Unique to Anesthesia Providers” Department of Anesthesiology, Stony Brook University Hospital, Stony Brook, NY
2015	Grand Rounds	“The LMA and the Neonatal Patient” Department of Neonatology, Washington Hospital Center, Washington, DC
2015	Grand Rounds	“Peri-Operative Anaphylaxis: Delayed and Non-Delayed Presentations” Division of Anesthesia, Sedation and Perioperative Medicine at The Children’s National Medical Center, Washington, DC
2017	CME Lecture	“Clinical Informatics in Pediatric Anesthesia: Current and Future Directions” Cutting Edge Topics in Pediatric Anesthesia, The Children’s Hospital of Philadelphia, Philadelphia, PA
2019	CME Workshop	“Managing Emergencies in Pediatric Anesthesia in Limited Resource Environments: Simulation Workshop” Kijabe Hospital 8 th Annual Anesthesia Conference: Principles and Perspectives on Pediatric Anesthesia and Pain Management, Nyeri, Kenya
2019	Grand Rounds	“Where You Live Matters: Leveraging Geospatial Analysis to Better Care for our Pediatric Patients” Department of Anesthesiology and Critical Care Medicine, The Children’s Hospital of Los Angeles, Los Angeles, CA
2019	Visiting Professor Seminar	“Is there a Doctor On-Board? Unique Challenges for an In-Flight Emergency for Pediatric Patients” Department of Anesthesiology, Vanderbilt University, Nashville, TN
2019	Grand Rounds	“Geospatial Analysis and Location Intelligence Insights to Improve Pediatric Perioperative Care” Department of Anesthesiology, Vanderbilt University, Nashville, TN
2020	Visiting Professor Seminar	“The Demographic Data Problem: How can we get better social determinants of health information on our pediatric patients?” Department of Anesthesiology, The Hospital for Sick Children, Toronto, Canada (*Delayed due to COVID-19 Pandemic)
2020	Grand Rounds	“Where You Live Matters: Location Intelligence Insights to Improve Pediatric Care” Department of Paediatrics, The Hospital for Sick Children, Toronto, Canada (*Delayed due to COVID-19 Pandemic)
2020	Grand Rounds	“Perioperative Insights into Social Determinants of Health using Spatial Data Science” Perioperative Grand Rounds with the Department of Anesthesiology, Department of Surgery and Department of Critical Care, The Hospital for Sick Children, Toronto, Canada
2021	Visiting Scholar	“Understanding Social Determinants of Health to Improve Pediatric Perioperative Care” Department of Anesthesiology, Seattle Children’s Hospital, Seattle, WA (Virtual)

ORGANIZING ROLES IN SCIENTIFIC MEETINGS:

2007	Moderator	“Everything you want to know about Student-Run Health Clinics in 60 Minutes” The American Medical Association Interim Meeting, Honolulu, HI
2017	Abstract Co-Chair	Society for Technology in Anesthesia Annual Meeting, San Diego, CA
2018	Program Co-Chair	Society for Technology in Anesthesia Annual Meeting, San Diego, CA
2018	Moderator	“Medically Challenging Cases” The American Society of Anesthesiology Annual Meeting, San Francisco, CA
2019	Panelist	MPH Capstone Presentations The University of Pennsylvania, Philadelphia, PA
2019	Moderator	“Medically Challenging Cases – Pediatric Anesthesiology Session” The American Society of Anesthesiology Annual Meeting, Orlando, FL
2019	Session Chairperson and Moderator	“Methodological and Analytical Advances in Administrative Data Research” 4th International Conference on Administrative Data Research, Cardiff, UK
2020	Session Proposal Review Committee	International Anesthesia Research Society (IARS) 2021 Annual Meeting
2021	Moderator	“Technology in Anesthesia – Clinical Applications” Society for Technology in Anesthesia Annual Meeting, Virtual
2021	Session Chairperson and Moderator	“Geospatial Health Symposium: Environmental Health” The American Association of Geographers Annual Meeting, Seattle, WA
2021	Scientific Abstract Review Committee	International Anesthesia Research Society (IARS) 2021 Annual Meeting

THESIS:

2003	B.A.	University of Rochester	Acute Illness Utilization Patterns Before and After Telemedicine in Childcare for Inner-City Children: A Cohort Study
2005	M.P.H.	Yale University School of Epidemiology and Public Health	The Other Consequence of Public Health Insurance on Children
2018	M.B.I.	Oregon Health & Science University School of Medicine	A Systematic Review of Geographic Information System Applications in Pediatric Health Services Access and Utilization: A Study of Current and Future Research Directions

PUBLICATIONS:

REFEREED JOURNAL ARTICLES:

1. Holt EW, **Tan J**, Hosgood D. The impact of spirometry on pediatric asthma diagnosis and treatment. *Journal of Asthma*. 43(7): 489-93, 2006. PMID #16939987
2. McConnochie K, **Tan J**, Wood N, Herendeen N, Kitzman H, Roy J, Roghmann K. Acute illness Utilization Patterns Before and After Telemedicine in Childcare for Inner-City Children: A Cohort Study. *Telemedicine and E-Health*. 13(4): 381-390. 2007. PMID #17848106
3. **Tan J**, Macario A. How to Evaluate Whether a New Item in the OR is Cost-Effective. *Anesthesiology Clinics*. 26(4): 745-64, 2008. PMID #19041627

4. **Tan J**, Macario A, Carvalho B, Druzin M, El-Sayed Y. Cost-Effectiveness of External Cephalic Version for Term Breech Presentation. *BMC Pregnancy and Childbirth*. 10(3), 2010. PMID #20092630
5. Moore W, Kolnick D, **Tan J**, Yu HS. CT Guided Percutaneous Cryoneurolysis for Post-Thoracotomy Pain Syndrome: Early Experience and Effectiveness. *Academic Radiology*. 17(5): 603-6, 2010. PMID #20227306
6. Gallagher C, **Tan J**, Foster CG. Lipid Rescue for Bupivacaine Toxicity in the Cardiology Suite. *Heart Int*. 5(1): e5, 2010. PMID #21977290
7. Abola RE, **Tan J**, Wallach D, Kier C, Seidman PA, Tobias JD. Intraoperative airway obstruction related to tracheostomy tube malposition in a patient with achondroplasia and Jeune's Syndrome. *Middle East J Anesthesiology*. 20(5): 735-8, 2010. PMID #20803866
8. Lieb M, Orr T, Gallagher C, Moten H, **Tan JM**. A Case of Intra-operative Ventricular Fibrillation: Electrocauterization, Undiagnosed Tako-Tsubo Cardiomyopathy or Long-QT Syndrome? *Int J Surg Case Rep*. 3(5): 155-7, 2012. PMID #22377501
9. Carvalho B, **Tan JM**, Macario A, El-Sayed Y, Sultan P. A Cost-Analysis of Neuraxial Analgesia to Facilitate External Cephalic Version. *Anesthesia and Analgesia*. 117(1): 155-9, 2013. PMID #23592608
10. **Tan JM**. Smartphone Application Review: Airway Assessment App (v. 4.0.0). *Anesthesiology*. 125: 608-09, 2016.
11. Nguyen KN, Byrd HS, **Tan JM**. Caudal Analgesia and Cardiothoracic Surgery: A Look at Post-Operative Pain Scores in a Pediatric Population. *Paediatr Anaesth*. 26(11): 1060-3, 2016. PMID #27550555
12. Simpao AF, **Tan JM**, Lingappan AM, Galvez JA, Morgan SE, Krall MA. A Systematic Review of Near Real-Time and Point-of-Care Clinical Decision Support in Anaesthesia Information Management Systems. *J Clin Monit Comput*. 31(5): 885-894, 2017. PMID #27530457
13. Hsieh LB, **Tan JM**, Trostler MS, Scriven R, Lee TK, Seidman PA. Single-shot thoracic epidural: an aid to earlier discharge for pediatric laparoscopic cholecystectomy. *Paediatr Anaesth*. 26(9): 945-6, 2016. PMID #27461770
14. Chu DI, **Tan JM**, Mattei P, Costarino AT, Rossano JW, Tasian GE. Mortality and morbidity after laparoscopic surgery in children with and without congenital heart disease. *J Pediatr*. 185: 88-93, 2017. PMID #28410089
15. **Tan JM**, Wasey J, Simpao AF. Comparative Effectiveness Research in Health Services. *Anesth Analg*. 125(6): 2159, 2017.
16. Chu DI, **Tan JM**, Mattei P, Simpao AF, Costarino AT, Shukla AR, Rossano JW, Tasian GE. Outcomes of laparoscopic and open surgery in children with and without congenital heart disease. *J Pediatr Surg*. 53(10): 1980-88, 2018. PMID #29157923
17. Muhly WT, **Tan JM**, Hsu G, Sesok-Pizzini DA, Fiadjoe JE, Taylor JA, Bartlett SP, Stricker PA. Care standardization reduces blood donor exposures and transfusion in complex cranial vault reconstruction. *Hosp Pediatr*. 8(10): 595-603, 2018. PMID #30181236
18. Simpao AF, Ma AA, **Tan JM**, Wasey JO, Masino AJ, Galvez JA. One Laryngospasm, 2 Realities: A Case Report Highlighting the Impact of Data Granularity on Post Hoc Analysis of Perioperative Events. *Anesthesia and Analgesia Practice*. 11(11): 315-317, 2018. PMID #29927761
19. Galvez JA, Yaport M, Maeder-Chieffo S, Simpao AF, **Tan JM**, Wasey JO, Lingappan AM, Jablonka D, Subramanyam R, Ahumada LM, Song B, Wu L, Dubow S, Rehman MA. STBUR: Sleep trouble breathing and unrefreshed questionnaire: Evaluation of screening tool for postanesthesia care and disposition. *Paediatr Anaesth*. 29(8): 821-28, 2019. PMID #31124263
20. Nelson O, Sturgis B, Gilbert K, Henry E, Clegg K, **Tan JM**, Wasey JO, Simpao AF, Galvez JA. A Visual Analytics Dashboard to Summarize Serial Anesthesia Records in Pediatric Radiation Treatment. *Appl Clin Inform*. 10(4): 563-69, 2019. PMID #31390667
21. Galvez JA, Acquah S, Ahumada L, Cai L, Polanski M, Wu L, Simpao AF, **Tan JM**, Wasey J, Fiadjoe JE. Hypoxemia, Bradycardia, and Multiple Laryngoscopy Attempts during Anesthetic Induction in Infants: A Single-center, Retrospective Study. *Anesthesiology*. 131(4): 830-39, 2019. PMID #31335549

22. **Tan JM**, Wasey J, Nelson O, Tam V, Simpao A, Galvez J. Leveraging Electronic Health Records and Administrative Datasets to Understand Social Determinants of Health: Opportunities and Challenges. *International Journal of Population Data Science*, 4(3): 153, 2019.
23. Galvez JA, Wu L, Simpao AF, **Tan JM**, Muhly WT, Masino A, Sutherland T, Wasey JO, Nelson O, Lin E, Fiadjoe JE, Stricker, P. Duration of preoperative clear fluid fasting and peripheral intravenous catheterization in children: A single-center observational cohort study of 9693 patients. *Paediatr Anaesth*. 30(2): 137-146, 2020. PMID #31785039
24. Matava CT, Kovatsis PG, Summers JL, Castro P, Denning S, Yu J, Lockman JL, Von Ungern-Sternberg B, Sabato S, Lee LK, Ayad I, Mireles S, Lardner D, Whyte S, Szolnoki J, Jagannathan N, Thompson N, Stein ML, Dalesio N, Greenberg R, McClosky J, Peyton J, Evans F, Haydar B, Reynolds P, Chiao F, Taicher B, Templeton T, Bhalla T, Raman VT, Garcia-Marcinkiewicz A, Galvez J, **Tan JM**, Rehman M, Crockett C, Olomu P, Szmuk P, Glover C, Matuszczak M, Galvez I, Hunyady A, Polaner D, Gooden C, Hsu G, Gumaney H, Perez-Pradilla C, Kiss EE, Theroux MC, Lau J, Asaf S, Ingelmo P, Engelhardt T, Hervias M, Greenwood E, Javia L, Disma N, Yaster M, Fiadjoe JE, On behalf of the PeDI-Collaborative. Pediatric Airway Management in COVID-19 patients – Consensus Guidelines from the Society for Pediatric Anesthesia’s Pediatric Difficult Intubation Collaborative and the Canadian Pediatric Anesthesia Society. *Anesth Analg*, Epub ahead of print, 2020. PMID #32287142
25. Muhly WT, Wohler B, Nelson MN, **Tan JM**, Barg FK, England W, Fazzini C, Sequera-Ramos L, Stricker PA. A qualitative assessment of factors that children (6-12 years old), parents, and clinicians prioritize in the setting of elective anesthesia and surgery. *Anesthesia and Analgesia*. Epub ahead of print, 2020. PMID #32502137.
26. Simpao AF, Wu L, Nelson O, Galvez JA, **Tan JM**, Wasey JO, Muhly WT, Tsui FC, Masino AJ, Stricker PA. Preoperative fluid fasting times and post-induction low blood pressure in children: a retrospective analysis. *Anesthesiology*. 133(3): 523-533, 2020. PMID #32433278
27. **Tan JM**, Tam V, Galvez JA, Hsu G, Quarshie W, Wasey JO, Nelson O, Simpao AF. Spatial Linkage of Electronic Health Records and Census Data in a Children’s Hospital. *International Journal of Population Data Science*. 5(5). 2020.
28. **Tan JM**, Disma N, Matava C. COVID-19 and Paediatric Anaesthesia. *Current Opinion in Anaesthesiology*, 2021. *In Press*.

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1. Isserman R, Varallo D, Cheung J, Swami S, Lee J, Cafone J, Metjian TA, Chiotos K, Zook J, Baldwin K, Muhly WT, **Tan JM**. Improving antibiotic choice for perioperative antibiotic prophylaxis in patients with penicillin-class allergies: A Quality Improvement Project. Submitted to *Pediatrics*. 2021.
2. Masino A, Bose S, Epifano J, Nelson O, Wasey JO, **Tan JM**, Elliott E, Simpao AF, Galvez JA. Machine Learning Detection of Perioperative Respiratory Adverse Events for Children Undergoing General Anesthesia. *Anesthesiology*. Manuscript Submitted, 2020.
3. **Tan JM**, Hsu G, Simpao AF, Fiadjoe JE, Matava CT, Galvez JA, Macario A. Pre-Procedure COVID-19 Screening Considerations: Current and Future Directions. *Anesthesia and Analgesia*. Accepted Pre-submission, 2020.
4. Nelson O, Wu L, Stricker PA, Tsui F, **Tan JM**, Wasey JO, Galvez JA, Simpao AF. A Retrospective Analysis of Post-Intubation Blood Pressure in Infants Undergoing Anesthesia for Inguinal Hernia Repair. *Anesthesia and Analgesia*. Manuscript Submitted, 2020.
5. Wasey JO, Tong A, Wendler DJ, Cedrone ME, **Tan JM**, Simpao AF, Galvez J, Rehman MA. Systematic review of the use of propensity matching in anesthesiology. *Anesthesiology*. Manuscript in review, 2020.
6. **Tan JM**, Galvez JA, Lingappan AM, Wasey JO, Hsu G, Simpao AF. A systematic review of geographic information system applications in pediatric health services access and utilization: a

- study of current and future research directions. *International Journal of Health Geographics*, Manuscript in Review, 2020.
7. **Tan JM**, Simpao AF, Kodavatiganti M, Galvez JA, Dubow S. Understanding the patient experience: Modes of transportation and perceived transportation barriers for patients scheduled for elective ambulatory surgery at a children's hospital. *Journal of Patient Experience*. Manuscript in Review, 2020.
 8. **Tan JM**, Simpao AF, Tam V, Hsu G, Wasey JO, Muhly T, Nelson O, Galvez JA. Geographic and Socioeconomic Risk Factors Associated with NPO Duration in a Children's Hospital. *Anesthesiology*. Manuscript Submitted, 2020.
 9. **Tan JM**, Blake K, Simpao AF. Propofol and Green Urine in a Pediatric Surgical Patient: A Case Report. *A&A Practice*. Manuscript in Review, 2020.
 10. **Tan JM**, Tam V, Galvez JA, Hsu G, Quarshie W, Wasey JO, Nelson O, Simpao AF. Geographic and Socioeconomic Risk Factors Associated with Late Arrivals for Elective Surgery in a Children's Hospital: An Application of Geospatial Analysis with Electronic Health Records. *Anesthesiology*. Manuscript Being Submitted, 2020.
 11. **Tan JM**, Nelson O, Cao L, Galvez JA, Simpao AF, Stricker PA. Epidemiology of Neonatal Anesthesia for Surgical Procedures: Management and Outcomes. Manuscript being completed, 2020.
 12. **Tan JM**, Nelson O, Cao L, Galvez JA, Simpao AF, Stricker PA. Epidemiology of Neonatal Anesthesia for Radiology Procedures. Manuscript being completed, 2020.
 13. **Tan JM**, Cheung J, Muhly T, Isserman RS. Epidemiology of Penicillin Allergies and Antibiotics Administered for Surgical Prophylaxis in Pediatric Surgery. Manuscript being completed, 2020.
 14. **Tan JM**, Galvez JA, Simpao AF. What is Hypoxia in Pediatric Anesthesiology? Using Sensitivity Analysis to Understand the Impact of Varying Definitions of Hypoxia in Quality Improvement and Research. Manuscript being completed, 2020.
 15. Becker AM, Tam V, **Tan JM**, Association of Geographic Location and 30-Day Hospital Readmission Rates. Manuscript completed, 2020.
 16. **Tan JM**, Disma N, Matava C. COVID-19 and Paediatric Anaesthesia. *Current Opinion in Anaesthesiology*, 2021. *In Press*.
 17. Lee LK, **Tan JM**, Wu L, Guo Y, Simpao AF, Guffey P, Matava C, Szmuk P, Rehman M, Galvez JA and the SPA Biomedical Informatics Special Interest Group. Assessment of adoption and utilization of a standardized pediatric pre-anesthesia evaluation in the United States between 2014-2019. Manuscript in progress, 2021.

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1. Gallagher C, **Tan JM**. The Current Status of Simulation in the Maintenance of Certification in Anesthesia. *Int Anesthesiol Clin*. 48(3):83-99, 2010. PMID #20616639
2. Macario A, Carvalho B, **Tan JM**, Sultan P, El-Sayed YY. Building a Value-Based Platform: In response. *Anesth Analg*. 118(4): 884-5, 2014. PMID #24651247
3. Asaad B, **Tan JM**, Bigeleisen PE. Ultrasound-Guided Suprascapular and Axillary Nerve Block (Chapter) in Bigeleisen PE, Gofeld M, Orebaugh SL (Ed.) Ultrasound-Guided Regional Anesthesia and Pain Medicine. 2nd ed. Wolters Kluwer, Philadelphia, PA, 2015.
4. **Tan JM**, Fiadjoe JE. Craniofacial Clefts (Chapter) in Fleischer L and Roizen J. (Ed.) Essence of Anesthesia Practice. 4th ed. Elsevier, Philadelphia, PA, 2016.
5. Galvez JA, Acquah S, Ahumada L, Cai L, Polanski M, Wu L, Simpao AF, **Tan JM**, Wasey JO, Fiadjoe JE. Analysis of Laryngoscopy Attempts in Infants: Reply. *Anesthesiology*. Epub Ahead of Print, 2020. PMID #32320173
6. Simpao AF, Wu L, Nelson O, Galvez JA, **Tan JM**, Wasey JO, Muhly WT, Tsui FC, Masino AJ, Stricker PA. Preoperative fluid fasting times and post-induction low blood pressure in children: a retrospective analysis: In Reply. *Anesthesiology*. Submitted.

7. **Tan JM**, Cohen DE. Pediatric Anesthesia Monitoring (Chapter) in Davis PJ and Cladis FP and Motoyama EK (Ed.) Smith's Anesthesia for Infants and Children. 10th ed. Elsevier, Philadelphia, PA, 2020. In Press.

NON-REFEREED JOURNAL ARTICLES, REVIEWS, OR OTHER COMMUNICATIONS:

1. **Tan JM**, Brewer L. The 2017 STA Annual Meeting Awards for Best Abstracts. *Interface*. 28(10): 13, 2017.
2. **Tan JM**, Brewer L. Highlights from the 2018 STA Annual Meeting. *Interface*. 29(1): 6, 2018.
3. **Tan JM**, Brewer L. Data-Driven Innovation and Technology in Anesthesia. *Anesthesiology News*. 79-83, Oct 2018.
4. **Tan JM**. STA 2019 Ty Smith Dinner: Confessions of a Cave Diving Anesthesiologist. *Interface*. 30(2): 4, 2019.
5. **Tan JM**. STA 2020 J.S. Gravenstein Award: Celebrating a Lifetime of Innovating Patient Safety and Technology in Anesthesia. *Interface*. 31(2): 8, 2020.
6. **Tan JM**. Ellison C. Pierce Lecture: Advances and Future Directions of Patient Safety. *Interface*. 9,2020.
7. **Tan JM**, Mathur P. Patient Safety Considerations with Machine Learning and Artificial Intelligence Software as Medical Devices – Part 1 of 2. *Anesthesia Patient Safety Foundation (APSF) Newsletter*. Manuscript being submitted, 2020.
8. Mathur P, **Tan JM**. Artificial Intelligence in Anesthesiology: How to think of them to improve patient safety – Part 2 of 2. *Anesthesia Patient Safety Foundation (APSF) Newsletter*. Manuscript being submitted, 2020.

ABSTRACTS AND PRESENTATIONS:

1. **Tan JM**, Kunz S, Miesfeld RL. "Expression Profiling of Seven Genes Identified by Microarray as Glucocorticoid Regulated." Poster presentation at the 15th National Conference on Undergraduate Research, University of Kentucky, KY. March 2001.
2. **Tan JM**, Kunz S, Miesfeld RL. "Expression Profiling of Seven Genes Identified by Microarray as Glucocorticoid Regulated." Poster presentation at the Undergraduate Research and Creativity Conference at the University of Rochester. Rochester, NY. April 2001.
3. **Tan JM**, Holt EW, Hosgood HD, "A Fifth Vital Sign for a Pediatric Asthma Program." Oral Presentation. *American Public Health Association 132nd Annual Meeting*. Washington, DC. November 9, 2004.
4. McConnochie KM, **Tan JM**, Wood NE, Herendeen NE, Kitzman HJ, Roy J, Roghmann KJ. "Impact of Telemedicine in Childcare on Utilization of Traditional Healthcare." Poster Presentation. *American Telemedicine Association Annual Meeting*. Denver, CO. May 2005.
5. **Tan JM**, Macario A, Carvalho B, El-Sayed YY, Druzin M. "Is External Cephalic Version to convert a fetus in the breech position to vertex (and reduce the need for cesarean) cost-effective?" Oral Presentation. *American Society of Anesthesiologist Annual Meeting – FAER Symposium*. Chicago, IL. October 17, 2006.
6. **Tan JM**, Kronebusch K, Busch S. "Understanding the Impact of Insurance Status on the Utilization of Well-Child Visits, General Health Services and Adherence to the American Academy of Pediatrics Recommendations on Preventive Care." Poster Presentation. *American Medical Student Association (AMSA) 57th Annual Convention*. Washington, DC. March 8, 2007.
7. **Tan JM**, Macario A, El-Sayed YY, Carvalho B. "A Cost-Analysis of Neuraxial Analgesia to Facilitate External Cephalic Version." Poster Presentation at *Resident Poster Session of the Society of Obstetric Anesthesia and Perinatology (SOAP) 39th Annual Meeting*. Banff, Alberta, CA. May 16-19, 2007.

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9. **Tan JM**, Macario A, Carvalho B, El-Sayed YY, Druzin M. "Is External Cephalic Version Cost-Effective?" Oral Presentation at the *Zuspan Award Session of the Society of Obstetric Anesthesia and Perinatology (SOAP) 39th Annual Meeting*. Banff, Alberta, CA. May 16-19, 2007.
10. Abola R, Wallach D, **Tan JM**, Whitley M, Seidman PA. "Tracheostomy Complications in an Achondroplastic Dwarf with Jeune's Syndrome." Medically Challenging Case Poster Presentation *American Society of Anesthesiologists Annual Meeting*. Orlando, FL. October 18-22, 2008.
11. Dogra A, Nagaraj S, Giserman L, **Tan JM**. "Effectiveness of Nutrition and Fitness Educational Intervention in Improving Knowledge Base in Elementary School Students." Poster Presentation. *The American Medical Association Interim Meeting*. Orlando, FL. November 6-8, 2008.
12. Seidman PA, Cormican D, **Tan JM**. "Early Procedural Clinical Skills Training in Medical Students." Poster Presentation. *American Society of Anesthesiologists Annual Meeting*. New Orleans, LA. 2009.
13. Moore W, Kolnick D, **Tan JM**, Yu HS. "Retrospective Assessment of the Efficacy of CT guided Percutaneous Cryoneurolysis for Pain Control." Poster Presentation. *Radiology Society of North America Annual Meeting*. Chicago, IL. November 29, 2009.
14. Gonzalez MA, Melendez MM, **Tan JM**, Khan S, Dagum AB. "Do all patients undergoing Aesthetic Plastic Surgical Procedures in an Office Based Setting need chemical Prophylaxis against Deep Vein Thrombosis and Pulmonary Embolism?" Poster Presentation. *American Society of Plastic Surgeons Senior Residents Conference*. Anaheim, California. January 20-23, 2010.
15. Nguyen KN, Seidman PA, **Tan JM**. "Waste Optimization in the Labor and Delivery Operating Suites" Poster Presentation. *International Anesthesia Research Society (IARS) Annual Meeting*, Honolulu, HI. March 20-23, 2010.
16. Gonzalez MA, Melendez MM, **Tan JM**, Wong E, Dagum AB, Teotia S, Beasley M, Khan S. "Incidence of Venous Thromboembolisms (VTE) in Outpatient Aesthetic Surgery: Risk Stratification and Implications for Future Prophylaxis" Oral Presentation at *The American Society of Aesthetic Plastic Surgery National Meeting*. Washington D.C., April 26, 2010.
17. Gallagher C, **Tan JM**, **Abola R**, Cruci N, Bilfinger TV. "Lobectomy for Refractory Hemoptysis in a Patient with Hughes-Stovin Syndrome" Medically Challenging Case Poster Presentation. *American Society of Anesthesiologist Annual Meeting*. San Diego, CA. October 16-20, 2010.
18. Gonzalez MA, Healy J, **Tan JM**, Dagum AB, Teotia S, Beasley M, Khan S. "Office-Based Aesthetic Surgery Utilizing General Anesthesia: How Safe is it? Analysis of 2579 Consecutive Cases in a Single Center" Oral Presentation at the *27th Annual Meeting of the Northeastern Society of Plastic Surgeons*. Washington D.C., October 28-31, 2010.
19. Gonzalez MA, Glickman LT, **Tan JM**, Aladegbami B, Simpson RL. "Quality of Life After Breast Reduction Surgery: A 10-year Retrospective Analysis Utilizing the BreastQ Questionnaire – Does Breast Size Matter?" Oral Presentation. *28th Annual Northeastern Society of Plastic Surgeons Resident Competition*. Amelia Island, Florida. October 22, 2011.
20. **Tan JM**, Durkin B, Lokshina I. "Management of Post-Operative Cellulitis Near an Intrathecal Pain Pump: Medical, Surgical and Pain-Medicine Considerations" Poster Presentation at the *65th Postgraduate Assembly in Anesthesiology*, New York City, NY. December 11, 2011.
21. **Tan JM**, Wang M, Steinberg E, Abola R. "Anesthetic Management of Pregnancy Following Cardiac Transplant: A Case Presentation and Review of the Literature." Poster Presentation. *American Society of Anesthesiologist Annual Meeting*, Washington DC. October 16, 2012.
22. **Tan JM**, Durkin B, Lokshina I. "Interdisciplinary Management of Post-Operative Cellulitis Near an Intrathecal Pain Pump." Poster Presentation. *American Society of Anesthesiologist Annual Meeting*, Washington DC. October 14, 2012.
23. **Tan JM**, Oleszak S, Tam C, Kowal R. "Challenging Airway Management for Removal of Foreign Body from the Trachea." Poster Presentation. *American Society of Anesthesiologist Annual Meeting*, San Francisco, CA. October 2013.

24. Hsieh LB, **Tan JM**, Gruffi CA, Scriven R, Lee TK, Seidman PA. "Single Shot Thoracic Epidural: An Aid to Earlier Discharge for Pediatric Laparoscopic Cholecystectomy." Poster Presentation. *American Pediatric Surgical Association (APSA)*, Phoenix, AZ. May 29-June 1, 2014.
25. **Tan JM**, Artman J, Callahan P, Cladis FP. "The Impact of Parental Presence for Pediatric Inhalational Induction on Operating Room Time: A Retrospective Study." Poster Presentation. *SPA/AAP Pediatric Anesthesiology 2014 Annual Meeting*. Ft. Lauderdale, FL. March 7-9, 2014.
26. Chua P, Ahumada LM, Kayser CH, Jalal A, **Tan JM**, Lingappan AS, Simpao AF, Jawad A, Rehman MA, Galvez JA. "Visual analytic exploration of airway management strategies and interruptions of external beam radiation therapy for children requiring general anesthesia." *SPA/AAP Pediatric Anesthesiology 2016 Annual Meeting*. Colorado Springs, CO. April 1-3, 2016.
27. **Tan JM**, Gelder CH, Mattei P, Rehman MA. "Predictors of Post-Operative Intubation Following Major Pediatric Surgery: Lessons from the American College of Surgeons NSQIP-Pediatric Database." *SPA/AAP Pediatric Anesthesiology 2016 Annual Meeting*. Colorado Springs, CO. April 1-3, 2016.
28. **Tan JM**, Gelder CH, Mattei P, Rehman MA. "Predictors of Unplanned Post-Operative Intubation Following Pediatric Surgery." *2016 American College of Surgery NSQIP Annual Meeting*. San Diego, CA. July 2016.
29. Galvez JA, Acquah S, Wasey JO, **Tan JM**, Ahumada LM, Simpao AF, Rehman MA, Fiadjoe JE. "Description of Airway Management Techniques in a general population of children from birth to one year." *SPA/AAP Pediatric Anesthesiology 2017 Annual Meeting*. Austin, TX. March 3-5, 2017.
30. Ma A, Galvez JA, **Tan JM**, Lingappan AM, Simpao AF. One Laryngospasm, Two Realities: The Impact of Data Granularity on Post Hoc Analysis of Perioperative Events. *SPA/AAP Pediatric Anesthesiology 2018 Annual Meeting*. Phoenix, AZ. March 23-25, 2018.
31. Galvez JA, May Cha Y, Simpao AF, Wasey JO, Wu L, **Tan JM**, Fiadjoe JE. Pediatric Difficult Airway Diagnosis Mapping to SNOMED CT Terminology. *Society for Technology in Anesthesia 2018 Annual Meeting*. Miami, FL. Jan 10-13, 2018.
32. O'Neill D, **Tan JM**, Flynn JM, Sankar WN, Muhly WT. Unintended Consequences: Rising odansetron use following the implementation of a rapid recovery protocol for pediatric spine fusion. *SPA/AAP Pediatric Anesthesiology 2018 Annual Meeting*. Phoenix, AZ. March 23-25, 2018.
33. **Tan JM**, Kodavatiganti M, Galvez JA, Simpao AF, Dubow SR. Understanding the Patient Experience: Modes of Transportation and Perceived Transportation Barriers for Patients Scheduled for Elective Ambulatory Surgery at a Children's Hospital. *SPA/AAP Pediatric Anesthesiology 2018 Annual Meeting*. Phoenix, AZ. March 23-25, 2018.
34. Yaport MA, Simpao AF, **Tan JM**, Wasey JO, Lingappan AM, Ahumada LM, Song BO, Wu L, Rehman MA, Dubow S, Galvez JA. STUBR: Sleep Trouble Breathing and Unrefreshed Questionnaire: Evaluation of Screening Tool for Post-Anesthesia Care and Disposition. *SPA/AAP Pediatric Anesthesiology 2018 Annual Meeting*. Phoenix, AZ. March 23-25, 2018.
35. Galvez JA, Cha YM, McCormick PJ, Wasey JO, Wu L, **Tan JM**, Fiadjoe JE. Pediatric difficult airway diagnoses mapping to SNOMED CT terminology. *International Anesthesia Research Society 2018 Annual Meeting*. Chicago, IL. April 28-May 1, 2018.
36. Galvez JA, Wu L, Simpao AF, **Tan JM**, Lingappan A, Wasey J, Masino A, Muhly T, Grogan K, Fiadjoe J, Stricker P. Duration of preoperative clear fluid fasting and peripheral intravenous catheterization in children: a single-center observational cohort study of 3,712 pediatric patients. *10th European Society for Paediatric Anaesthesiology*. Brussels, Belgium. September 6-8, 2018.
37. Simpao AF, Wu L, Galvez JA, **Tan JM**, Wasey J, Lingappan A, Muhly T, Masino A, Grogan K, Fiadjoe J, Stricker P. Is prolonged fasting time associated with relative hypotension under anesthesia? A retrospective study of 16,506 children at a tertiary children's hospital. *10th European Society for Paediatric Anaesthesiology 2018 Annual Meeting – Awarded Top 10 Abstract*. Brussels, Belgium. September 6-8, 2018.
38. Wasey JO, Tong A, Curtis B, **Tan JM**, Galvez JA, Simpao AF. Patient experience of anesthesia and surgery from Twitter data. *Society for Technology in Anesthesia 2019 Annual Meeting*. Phoenix, AZ. January 9-12, 2019.

39. Nelson O, Sturgis B, Gilbert K, Henry E, Clegg K, **Tan JM**, Wasey JO, Simpao AF, Galvez JA. A visual analytics dashboard to summarize serial anesthesia records in pediatric radiation therapy. *Society for Technology in Anesthesia 2019 Annual Meeting*. Phoenix, AZ. January 9-12, 2019.
40. Nelson O, Sturgis B, Gilbert K, Henry E, Clegg K, **Tan JM**, Wasey JO, Simpao AF, Galvez JA. A visual analytics dashboard to summarize serial anesthesia records in pediatric radiation therapy. *SPA/AAP Pediatric Anesthesiology 2019 Annual Meeting*. Houston, TX. March 15-17, 2019.
41. Simpao A, Nelson O, Wu L, Galvez J, **Tan JM**, Wasey J, Lingappan A, Muhly T, Masino A, Grogan K, Fiadjoe J, Tsui R, Stricker P. Is prolonged fasting time associated with relative hypotension under anesthesia? A retrospective study of 15,254 children at a tertiary care children's hospital. *SPA/AAP Pediatric Anesthesiology 2019 Annual Meeting*. Houston, TX. March 15-17, 2019.
42. Sutherland T, Wu L, Simpao A, **Tan JM**, Lingappan A, Wasey J, Masino A, Muhly T, Grogan K, Fiadjoe J, Stricker P, Galvez J. Duration of preoperative clear fluid fasting and peripheral intravenous catheterization in children: a single-center observational cohort study of 3,712 pediatric patients. *SPA/AAP Pediatric Anesthesiology 2019 Annual Meeting*. Houston, TX. March 15-17, 2019.
43. Wasey J, **Tan JM**, Simpao A, Galvez J. Machine learning for case comparison in quality improvement: a tonsillectomy case study. *SPA/AAP Pediatric Anesthesiology 2019 Annual Meeting*. Houston, TX. March 15-17, 2019.
44. Onyando A, Kynes JM, **Tan JM**, Hsu G. Pediatric Lung Isolation in a Low-Resource Setting: A Medically Challenging Case. *The American Society of Anesthesiology 2019 Annual Meeting*. Orlando, FL. October 2019.
45. Onyando A, Kynes JM, **Tan JM**, Hsu G. Pediatric Lung Isolation in a Low-Resource Setting: A Medically Challenging Case. *2019 Annual Pediatric Global Health Conference at the Children's Hospital of Philadelphia*. Philadelphia, PA. October 2019.
46. Nelson O, Wu L, Stricker P, Tsui F, Masino A, **Tan JM**, Wasey JO, Galvez JA, Simpao AF. Use of anesthesia information management system (AIMS) data to determine factors associated with low blood pressure in healthy anesthetized infants. *Society for Technology in Anesthesia 2020 Annual Meeting*. Austin, TX. January 16-18, 2020.
47. Dao D, Nelson O, Simpao AF, **Tan JM**, Wasey JO, Masino A, Tsui R, Scott J, Saeed M, Sloberman L, Hamid M, Bartko MB, Galvez JA. The Telephone Game: Signal Degradation of Automated Vital Sign Recording in Anesthesia Information Management Systems. *Society for Technology in Anesthesia 2020 Annual Meeting*. Austin, TX. January 16-18, 2020.
48. **Tan JM**, Simpao AF, Tam V, Hsu G, Wasey JO, Muhly WT, Nelson O, Galvez JA. Geographic and Socioeconomic Factors Associated with Duration of Nil Per Os (NPO) in a Children's Hospital: An Application of Geospatial Analysis with Electronic Health Records. *SPA/AAP Pediatric Anesthesiology 2020 Annual Meeting*. Paradise Island, The Bahamas. February 29, 2020.
49. Muhly WT, Wohler B, **Tan JM**, England W, Nelson M, Fazzini C, Sequera-Ramos L, Barg F, Stricker P. Determining what variables define quality of recovery following anesthesia and surgery in children (6-12 years old): An analysis of qualitative and semi-structured interviews with patients and their caregivers. *SPA/AAP Pediatric Anesthesiology 2020 Annual Meeting*. Paradise Island, The Bahamas. February 29, 2020.
50. Nelson O, Wu L, Stricker P, Tsui F, Masino A, **Tan JM**, Wasey JO, Galvez JA, Simpao AF. Analysis of factors associated with low blood pressure in healthy infants. *SPA/AAP Pediatric Anesthesiology 2020 Annual Meeting*. Paradise Island, The Bahamas. February 29, 2020.
51. Nelson O, **Tan JM**, Simpao AF, Galvez JA, Wasey JO, Stricker P. Epidemiology and Management of Anesthesia Care in Neonates and Infants. *International Anesthesia Research Society 2020 Annual Meeting*. San Francisco, CA. May 18, 2020. (*Delayed due to COVID-19 Pandemic)
52. **Tan JM**, Tam V, Galvez JA, Hsu G, Quarshie W, Wasey JO, Nelson O, Simpao AF. Geographic and Socioeconomic Risk Factors Associated with Late Arrivals for Elective Surgery in a Children's Hospital: An Application of Geospatial Analysis with Electronic Health Records. *The American Society of Anesthesiology 2020 Annual Meeting*. Washington, DC. October 2020.

53. Becker A, Tam V, **Tan JM**. Geographic Location and Readmission Rate: A Large Claims-Based study of Pay-for-Quality Readmission Risk by Patient Proximity to Hospital. *The American Society of Anesthesiology 2020 Annual Meeting*. Washington, DC. October 2020. *Virtual Oral Presentation*.
54. Loeb R, Abcejo AS, Edens M, **Tan JM**, Schexnayder G, Feldman JM, Peterson MD, Philip JH. Disbursement of Information from American Society of Anesthesiologists and Anesthesia Patient Safety Foundation during a Worldwide Pandemic. *The American Society of Anesthesiology 2020 Annual Meeting*. Washington, DC. October 2020.
55. Abcejo A, Edens M, Loeb RG, Schexnayder G, Philip JH, Feldman JM, **Tan JM**, Warner MA. Analysis of Anesthesia Patient Safety Foundation Website Traffic During the COVID-19 Pandemic. *The American Society of Anesthesiology 2020 Annual Meeting*. Washington, DC. October 2020.
56. Yu H, Tsui F, Simpao AF, Galvez JA, Sutherland TN, **Tan JM**, Wasey JO, Nelson O, Dunturi D, Stricker PA. Development of a Predictive Model for Pediatric Emergence Delirium Using a Large Quaternary Hospital Electronic Health Record Dataset. *The American Society of Anesthesiology 2020 Annual Meeting*. Washington, DC. October 2020.
57. Dao D, Nelson O, Simpao AF, **Tan JM**, Wasey JO, Masino A, Tsui R, Scott J, Saeed M, Sloberman L, Hamid M, Bartko MB, Galvez JA. Simulation Study to Evaluate Fidelity of Continuous Pulse Oximetry Recording in the Electronic Health Record. *Society for Technology in Anesthesia 2021 Annual Meeting*. Virtual Meeting. January 15-17, 2021.
58. Isserman R, Varallo D, Cheung J, Swami S, Lee J, Cafone J, Metjian TA, Chiotos K, Zook J, Baldwin K, Muhly WT, **Tan JM**. Improving antibiotic choice for perioperative antibiotic prophylaxis in patients with penicillin-class allergies. *SPA/AAP Pediatric Anesthesiology 2021 Annual Meeting*. San Diego, CA. February 2021.
59. **Tan JM**, Cheung J, Varallo D, Muhly WT, Isserman R. Epidemiology of penicillin-class medication allergy labels in a pediatric surgical population. *SPA/AAP Pediatric Anesthesiology 2021 Annual Meeting*. San Diego, CA. February 2021.
60. Dao D, Nelson O, Simpao AF, **Tan JM**, Wasey JO, Masino A, Tsui R, Scott J, Saeed M, Sloberman L, Hamid M, Bartko MB, Galvez JA. Simulation study to evaluate fidelity of continuous pulse oximetry recording in the electronic health record. *SPA/AAP Pediatric Anesthesiology 2021 Annual Meeting*. San Diego, CA. February 2021.
61. Henry M, **Tan JM**, Ross PA. Trends in obesity among a pediatric anesthesia population in a children's hospital, 2004-2020. *International Anesthesia Research Society 2021 Annual Meeting*. Virtual Meeting. May 15-16, 2021. (*Abstract Submitted*).

MEDIA AND TELEVISION APPEARANCES:

1. **Tan JM**. Taking Flow on a Medical Mission Trip to Kenya. Invited guest blog post for Plume Labs. September 2019. <https://blog.plumelabs.com/2019/09/05/taking-flow-on-a-medical-mission-trip-to-kenya/>
2. Knowlton T, **Tan JM**, Quennehen B, Gregoire J. Wildfires and Air Pollution: Breaking it Down. Invited Guest Blog Post for Plume Labs. November 2019. <https://blog.plumelabs.com/2019/11/25/wildfires-what-are-we-breathing/>
3. **Tan JM**. Interview by the American Society of Anesthesiology TV on "Machine Learning, Artificial Intelligence and Anesthesiology." ASATV. October 19, 2019.