

Stanford



Thomas Caruso

- Clinical Professor, Anesthesiology, Perioperative and Pain Medicine
- Ph.D. Student in Education, admitted Autumn 2019

CLINICAL OFFICES

- **Center for Academic Medicine Pediatric Anesthesia**

453 Quarry Rd

MC5663

Palo Alto, CA 94304

Tel (650) 723-5728

Fax (650) 725-8544

- **Pediatric Anesthesia**

725 Welch Rd

MC 5902

Palo Alto, CA 94304

Tel (650) 725-5728

Fax (650) 725-8544

Bio

BIO

Dr. Thomas Caruso specializes in the treatment of pediatric anesthesiology. Dr. Caruso has a special interest in regional anesthesia, quality and safety, medical education, and immersive technologies used for childhood pain and anxiety reduction.

CLINICAL FOCUS

- Anesthesia
- Pediatric Anesthesia
- Pediatric Regional Anesthesia

ACADEMIC APPOINTMENTS

- Clinical Professor, Anesthesiology, Perioperative and Pain Medicine
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Co-chair Type IV MOC Portfolio, Lucile Packard Children's Hospital, (2017- present)
- Co-chair Value Based Selection Committee, Lucile Packard Children's Hospital, (2017- present)
- Graduate Medical Education Faculty Adviser, Stanford University Department of Graduate Medical Education, (2014- present)
- Physician Lead for Perioperative Improvement, Lucile Packard Center for Quality and Clinical Effectiveness, (2013- present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, International Anesthesia Research Society (2019 - present)
- Member, International Pediatric Simulation Society (2019 - present)
- Vice-Chair Regional Anesthesia for Cardiac Enhanced Recovery Special Interest Group, American Society of Regional Anesthesia (2018 - present)
- Member, Society of Technology in Anesthesiology (2017 - present)
- Member, Anesthesia Patient Safety Foundation (2017 - present)
- Education Committee, California Society of Anesthesiologists (2012 - present)
- Member, Society of Pediatric Anesthesia (2011 - present)
- Member, American Society of Anesthesiologists (2009 - present)

PROFESSIONAL EDUCATION

- Master in Education, Johns Hopkins School of Education , Masters Degree in Education for the Health Professional (2015)
- Board Certification: Pediatric Anesthesia, American Board of Anesthesiology (2013)
- Board Certification: Anesthesia, American Board of Anesthesiology (2013)
- Fellowship: Stanford University Pediatric Anesthesia Fellowship (2013) CA
- Residency: Massachusetts General Hospital (2012) MA
- Internship: Kaiser Permanente Santa Clara Internal Medicine Residency (2009) CA
- Medical Education: Stanford University School of Medicine (2008) CA
- Bachelor of Science, University of Virginia , Chemistry with a subspecialty in Biochemistry, High Distinction (2004)

LINKS

- Stanford Chariot Program: <http://chariot.stanford.edu>
- Stanford Pediatric Anesthesiology: <http://med.stanford.edu/pedsanesthesia.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research pursuits are focused on system based improvement projects. At Lucile Packard Children's Hospital Stanford, I use system based approaches to improve the quality of care patients receive in the perioperative area and in the ICUs, with a focus on safe transitions of care. Through the Department of Graduate Medical Education at Stanford School of Medicine, I advise residency and fellowship programs on evidence based methods to improve their programs, with a focus on mentorship.

CLINICAL TRIALS

- Regional Anesthesia for Cardiothoracic Enhanced Recovery (RACER) Study, Recruiting
- Technology-Based Distractions During Minor Procedures, Recruiting
- VR Usage in Non-Invasive Surgical Sub-Specialty Procedures, Recruiting
- Evaluation of Technology-Based Stress Reduction Techniques Prior to Vascular Access, Not Recruiting
- Screen-Based Distraction Tool for Preoperative Preparation, Not Recruiting
- Transnasal Humidified Rapid-Insufflation Ventilatory Exchange (THRIVE) Use in Pediatric Procedures, Not Recruiting

Teaching

COURSES

2022-23

- The Art of Medical Diagnosis: ANES 72Q (Spr)

2021-22

- The Art of Medical Diagnosis: ANES 72Q (Spr)

STANFORD ADVISEES

Med Scholar Project Advisor

Olivia Hess

E4C Mentor

Besher Ashouri, Gabriela Asturias, Andrew Berneshawi, Nicolas Betancourt, Antonio Chahine, Jacky Chu, Anthony Cordova, Alexander Doan, Holly Elser, Rami Ezzibdeh, Kieran Fox, Nicholas Friedman, Allen Green, Nick Hug, Lauren Joseph, Nergis Khan, Olivia Lansinger, Christopher Lopez, Shamik Mascharak, Nirvikalpa Natarajan, Vanessa Nava, Emily Pang, Megha Patel, Shawheen Rezaei, Nada Rizk, Overbeck Christian Takou Mbah, Alexandria Tartt, Marie Vasitas, Nova Xu, Chenming Zheng

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Anesthesia (Fellowship Program)
- Pediatric Anesthesia (Fellowship Program)

Publications

PUBLICATIONS

- **What every anesthesiologist should know about virtual reality.** *Paediatric anaesthesia*
Rodriguez, S., Caruso, T. J.
2022; 32 (12): 1276-1277
- **Assessing Pediatric Perioperative Affect: A Concise Review of Research and Clinically Relevant Scales.** *Paediatric anaesthesia*
Yun, R., Hess, O., Kennedy, K., Stricker, P. A., Blake, L., Caruso, T. J.
2022
- **Use of virtual reality for targeted physical rehabilitation: Case report on managing functional motor disorder.** *Journal of pediatric rehabilitation medicine*
Nguyen, A. T., Hemphill, S., Donahue, B., Menendez, M., Rodriguez, S., Caruso, T. J.
2022
- **Virtual Reality Reduces Fear and Anxiety During Pediatric Orthopaedic Cast Room Procedures: A Randomized Controlled Trial.** *Journal of pediatric orthopedics*
Richey, A. E., Hastings, K. G., Karius, A., Segovia, N. A., Caruso, T. J., Frick, S., Rodriguez, S.
2022
- **Enhanced Recovery After Cleft Palate Repair: A Quality Improvement Project.** *Paediatric anaesthesia*
Esfahanian, M., Marcott, S. C., Hopkins, E., Burkart, B., Khosla, R., Lorenz, H. P., Wang, E., De Souza, E., Algaze-Yojay, C., Caruso, T. J.
2022
- **Communication Skills Training Using Remote Augmented Reality Medical Simulation: a Feasibility and Acceptability Qualitative Study.** *Medical science educator*
Hess, O., Qian, J., Bruce, J., Wang, E., Rodriguez, S., Haber, N., Caruso, T. J.
2022: 1-10

- **Assessing Pediatric Life Support Skills Using Augmented Reality Medical Simulation With Eye Tracking: A Pilot Study.** *The journal of education in perioperative medicine : JEPM*
Qian, J., Rama, A., Wang, E., Wang, T., Hess, O., Khoury, M., Jackson, C., Caruso, T. J.
2022; 24 (3): E691
- **Anesthesiologists With Advanced Degrees in Education: Qualitative Study of a Changing Paradigm.** *JMIR medical education*
Aggarwal, A., Hess, O., Lockman, J. L., Smith, L., Stevens, M., Bruce, J., Caruso, T.
2022; 8 (2): e38050
- **It Takes a Village: A Narrative Review of Anesthesiology Mentorship.** *Anesthesiology clinics*
Tsai, A. H., Bodmer, N. J., Gupta, K., Caruso, T. J.
2022; 40 (2): 301-313
- **Quantifying virtual reality pain modulation in healthy volunteers: A randomized, crossover study.** *Journal of clinical anesthesia*
Neiman, N. R., Falkson, S. R., Rodriguez, S. T., Wang, E. Y., Hemphill, S. F., Khoury, M. E., Kist, M. N., Jackson, C. D., Caruso, T. J.
2022; 80: 110876
- **Perioperative Pediatric Anxiety: A Cry for Universal Scale Adoption.** *Pediatric quality & safety*
Yun, R., Kennedy, K. M., Caruso, T. J.
2022; 7 (2): e542
- **A Pilot Quality Improvement Project to Reduce Intraoperative MRI Hypothermia in Neurosurgical Patients.** *Pediatric quality & safety*
Wong, B. J., Rama, A., Caruso, T. J., Lee, C. K., Wang, E., Chen, M.
2022; 7 (2): e531
- **Systemic lidocaine absorption from continuous erector spinae plane catheters after paediatric posterior spine fusion surgery.** *Regional anesthesia and pain medicine*
Pan, S., Lee, C. K., Caruso, T. J., Vorhies, J. S., Tsui, B. C.
2022
- **Integrated diversity, equity, and inclusion curriculum into pediatric anesthesia fellowship training: Another step forward.** *Paediatric anaesthesia*
Murray, A., Reece-Nguyen, T., Caruso, T. J.
1800
- **Real-time reorientation and cognitive load adjustment allow for broad application of virtual reality in a pediatric hospital.** *Journal of clinical and translational research*
Caruso, T. J., Fonseca, A., Barreau, A., Khoury, M., Menendez, M., Wang, E., Lawrence, K., Jackson, C., Rodriguez, S.
1800; 7 (6): 750-753
- **Use of Bedside Entertainment and Relaxation Theater (BERT) to Reduce Fear and Anxiety Associated With Outpatient Procedures in Pediatric Orthopaedics.** *Journal of pediatric orthopaedics*
Richey, A. E., Khoury, M., Segovia, N. A., Hastings, K. G., Caruso, T. J., Frick, S., Rodriguez, S.
2021
- **Development and assessment of an efficient pediatric affect and cooperation scale.** *Journal of clinical anesthesia*
Kennedy, K., Wang, E., Rodriguez, S. T., Qian, J., Khoury, M., Kist, M. N., Jackson, C., Yun, R., Caruso, T. J.
2021; 76: 110569
- **Small surgeries, big smiles: using virtual reality to reduce the need for sedation or general anesthesia during minor surgical procedures.** *Pediatric surgery international*
Taylor, J. S., Chandler, J. M., Menendez, M., Diyaolu, M., Austin, J. R., Gibson, M. L., Portelli, K. I., Caruso, T. J., Rodriguez, S., Chao, S. D.
2021
- **The Physiologic and Emotional Effects of 360-Degree Video Simulation on Head-Mounted Display Versus In-Person Simulation: A Noninferiority, Randomized Controlled Trial.** *Simulation in healthcare : journal of the Society for Simulation in Healthcare*
Caruso, T. J., Armstrong-Carter, E., Rama, A., Neiman, N., Taylor, K., Madill, M., Lawrence, K., Hemphill, S. F., Guo, N., Domingue, B. W.
2021
- **Mindfulness-Based Virtual Reality Intervention for Children and Young Adults with Inflammatory Bowel Disease: A Pilot Feasibility and Acceptability Study** *CHILDREN-BASEL*
Wren, A. A., Neiman, N., Caruso, T. J., Rodriguez, S., Taylor, K., Madill, M., Rives, H., Nguyen, L.

2021; 8 (5)

- **Unique considerations of virtual reality utilization for perioperative pediatric patients.** *Paediatric anaesthesia*
Yuan, J. C., Rodriguez, S., Caruso, T. J.
2021; 31 (3): 377–78
- **A pilot, randomized controlled trial of telementorship: A useful tool during social distancing.** *Journal of clinical and translational research*
Prionas, N. D., Kung, T. H., Dohn, A., Piro, N., von Eyben, R., Katznelson, L., Caruso, T. J.
2021; 7 (1): 66-71
- **Integrated eye tracking on Magic Leap One during augmented reality medical simulation: a technical report.** *BMJ simulation & technology enhanced learning*
Caruso, T. J., Hess, O., Roy, K., Wang, E., Rodriguez, S., Palivathukal, C., Haber, N.
2021; 7 (5): 431-434
- **Alternating Side Programmed Intermittent Repeated (ASPIRe) Bolus Regimen for Delivering Local Anesthetic via Bilateral Interfascial Plane Catheters.** *Journal of cardiothoracic and vascular anaesthesia*
Tsui, B. C., Brodt, J., Pan, S., Caruso, T. J., Kim, R., Horn, J. L., Boublik, J., Tsui, J. H.
2021
- **Virtual Reality Reduces Pediatric Anxiety During Food Allergy Clinical Trials: A Pilot Randomized, Pragmatic Study.** *Frontiers in allergy*
Alonzi, S., Caruso, T. J., Sindher, S. B., Cao, S., Varadharajulu, S., Collins, W. J., Chinthrajah, R. S.
2021; 2: 779804
- **Leveraging VR/AR to combat chronic pain in youth: Position paper from the Interdisciplinary Network on Virtual and Augmented (AR/VR) Technologies for Pain (INOVATE-Pain) Management.** *Journal of medical Internet research*
Logan, D. E., Simons, L. E., Caruso, T. n., Gold, J. I., Greenleaf, W. n., Griffin, A. n., King, C. n., Menendez, M. n., Olbrecht, V. n., Rodriguez, S. n., Silvia, M. n., Stinson, J. n., Wang, et al
2021
- **Publication misrepresentation amongst pediatric anesthesiology fellowship applicants: A retrospective single center cohort study.** *Paediatric anaesthesia*
Mehta, A., Patel, P., Caruso, T. J., Anderson, T. A.
2021
- **Virtual reality for pediatric periprocedural care.** *Current opinion in anaesthesiology*
Wang, E. n., Thomas, J. J., Rodriguez, S. T., Kennedy, K. M., Caruso, T. J.
2021; 34 (3): 284–91
- **Virtual Reality Facilitates Engagement in Physical Therapy in the Pediatric CVICU.** *Pediatric physical therapy : the official publication of the Section on Pediatrics of the American Physical Therapy Association*
Hemphill, S. n., Nguyen, A. n., Kwong, J. n., Rodriguez, S. T., Wang, E. n., Caruso, T. J.
2021; 33 (1): E7–E9
- **Virtual Reality Augments Movement during Physical Therapy: A Pragmatic Randomized Trial.** *American journal of physical medicine & rehabilitation*
Hemphill, S. n., Rodriguez, S. n., Wang, E. n., Koeppen, K. n., Aitken-Young, B. n., Jackson, C. n., Simons, L. n., Caruso, T. J.
2021
- **Virtual Reality in Pain Rehabilitation for Youth With Chronic Pain: Pilot Feasibility Study.** *JMIR rehabilitation and assistive technologies*
Griffin, A., Wilson, L., Feinstein, A. B., Bortz, A., Heirich, M. S., Gilkerson, R., Wagner, J. F., Menendez, M., Caruso, T. J., Rodriguez, S., Naidu, S., Golianu, B., Simons, et al
2020; 7 (2): e22620
- **Transnasal Humidified Rapid-Insufflation Ventilatory Exchange in pediatric bronchoscopy: A prospective pilot study.** *Journal of clinical anaesthesia*
Caruso, T. J., O'Connell, C., Qian, J., Menendez, M., Fonseca, A., Lawrence, K., Sidell, D. R., Darling, C., Tsui, B.
2020; 68: 110086
- **The virtual visit: Using immersive technology to visit hospitals during social distancing and beyond.** *Paediatric anaesthesia*
Dinh, A., Furukawa, L., Caruso, T. J.
2020; 30 (8): 954–56
- **A Retrospective Cohort Study of Predictors and Interventionsthat Influence Cooperation with Mask Induction in Children.** *Paediatric anaesthesia*

- Marquez, J. L., Wang, E., Rodriguez, S. T., O'Connell, C., Munshey, F., Darling, C., Tsui, B., Caruso, J., Caruso, T. J.
2020
- **A Quality Improvement Project to Reduce Combination Acetaminophen-opioid Prescriptions to Pediatric Orthopedic Patients.** *Pediatric quality & safety*
Caruso, T. J., Trivedi, S., Chadwick, W., Gaskari, S., Wang, E., Marquez, J., Lagasse, S., Bailey, M., Shea, K.
2020; 5 (3): e291
 - **From Socrates to Virtual Reality: A Historical Review of Learning Theories and Their Influence on the Training of Anesthesiologists.** *The journal of education in perioperative medicine : JEPM*
Caruso, T. J., Qian, J., Lawrence, K., Armstrong-Carter, E., Domingue, B. W.
2020; 22 (2): E638
 - **Retrospective Review of the Safety and Efficacy of Virtual Reality in a Pediatric Hospital.** *Pediatric quality & safety*
Caruso, T. J., O'Connell, C., Qian, J. J., Kung, T., Wang, E., Kinnebrew, S., Pearson, M., Kist, M., Menendez, M., Rodriguez, S. T.
2020; 5 (2): e293
 - **Mobilization and calibration of the HTC VIVE for virtual reality physical therapy.** *Digital health*
Hemphill, S., Nguyen, A., Rodriguez, S. T., Menendez, M., Wang, E., Lawrence, K., Caruso, T. J.
2020; 6: 2055207620950929
 - **Prospective Evaluation of the Safety and Efficacy of THRIVE for Children Undergoing Airway Evaluation.** *Pediatric quality & safety*
Okland, T. S., Liu, G. S., Caruso, T. J., Sidell, D. R.
2020; 5 (5): e348
 - **Introduction of the EMR-integrated I-PASS ICU Handoff Tool.** *Pediatric quality & safety*
Caruso, T. J., Su, F. n., Wang, E. n.
2020; 5 (4): e334
 - **Using Augmented Reality to Reduce Fear and Promote Cooperation During Pediatric Otolaryngologic Procedures.** *The Laryngoscope*
Caruso, T. J., Madill, M. n., Sidell, D. n., Meister, K. n., Wang, E. n., Menendez, M. n., Kist, M. N., Rodriguez, S. n.
2020
 - **Systemic Absorption of Lidocaine from Continuous Erector Spinae Plane Catheters After Congenital Cardiac Surgery: A Retrospective Study.** *Journal of cardiothoracic and vascular anesthesia*
Caruso, T. J., Lin, C. n., O'Connell, C. n., Weiss, D. n., Md, G. B., Wu, M. n., Kwiatkowski, D. n., Maeda, K. n., Tsui, B. C.
2020
 - **Near Miss in Intraoperative Magnetic Resonance Imaging: A Case for In Situ Simulation.** *Pediatric quality & safety*
Rama, A., Knight, L. J., Berg, M., Chen, M., Gonzales, R., Delhagen, T., Copperman, L., Caruso, T. J.
2019; 4 (6): e222
 - **A Pilot Quality Improvement Project to Reduce Preoperative Fasting Duration in Pediatric Inpatients.** *Pediatric quality & safety*
Nye, A., Conner, E., Wang, E., Chadwick, W., Marquez, J., Caruso, T. J.
2019; 4 (6): e246
 - **Virtual reality successfully provides anxiolysis to laboring women undergoing epidural placement.** *Journal of clinical anesthesia*
Kist, M., Bekemeyer, Z., Ralls, L., Carvalho, B., Rodriguez, S. T., Caruso, T. J.
2019: 109635
 - **Regional anesthesia for cardiac surgery.** *Current opinion in anaesthesiology*
Caruso, T. J., Lawrence, K., Tsui, B. C.
2019
 - **A Sustainable and Effective Mentorship Model for Graduate Medical Education Programs.** *Journal of graduate medical education*
Caruso, T. J., Kung, T., Piro, N., Li, J., Katznelson, L., Dohn, A.
2019; 11 (2): 221-225
 - **Varying Screen Size for Passive Video Distraction During Induction of Anesthesia in Low Risk Children: A Pilot Randomized Controlled Trial.** *Paediatric anaesthesia*
Rodriguez, S., Jang, O., Hernandez, J. M., George, A. J., Caruso, T. J., Simons, L.
2019

- **Accreditation Improves Quality of Oncology Education in Low- and Middle-Income Countries: Perspectives of African Oncologists.** *Journal of cancer education : the official journal of the American Association for Cancer Education*
Hammad, N., Stockley, D., Hastings-Truelove, A., Vanderpuye, V., Rubagumya, F., Caruso, T.
2019
- **Toward Opioid-Free Fast Track for Pediatric Congenital Cardiac Surgery.** *Journal of cardiothoracic and vascular anesthesia*
Esfahanian, M., Caruso, T. J., Lin, C., Kuan, C., Purkey, N. J., Maeda, K., Tsui, B. C.
2019
- **Transnasal Humidified Rapid Insufflation Ventilatory Exchange (THRIVE) augments oxygenation in children with cyanotic heart disease during microdirect laryngoscopy and bronchoscopy.** *Journal of clinical anesthesia*
Caruso, T. J., Sidell, D. R., Lennig, M., Menendez, M., Fonseca, A., Rodriguez, S. T., Tsui, B.
2019; 56: 53–54
- **Speeding the Detection of Vessel Cannulation: An In-Vitro Stimulation Study.** *Anesthesia and analgesia*
Muffly, M. K., Ku, A., Drover, D. R., Rodriguez, S., Caruso, T. J., Ku, A., Tsui, B. C.
2019
- **Operating Room Codes Redefined: A Highly Reliable Model Integrating the Core Hospital Code Team.** *Pediatric quality & safety*
Caruso, T. J., Rama, A. n., Knight, L. J., Gonzales, R. n., Munshey, F. n., Darling, C. n., Chen, M. n., Sharek, P. J.
2019; 4 (3): e172
- **Intraoperative Methadone Is Associated with Decreased Perioperative Opioid Use Without Adverse Events: A Case-Matched Cohort Study.** *Journal of cardiothoracic and vascular anesthesia*
Robinson, J. D., Caruso, T. J., Wu, M. n., Kleiman, Z. I., Kwiatkowski, D. M.
2019
- **Virtual Reality during Pediatric Vascular Access: A Pragmatic, Prospective Randomized, Controlled Trial.** *Paediatric anaesthesia*
Caruso, T. J., George, A. n., Menendez, M. n., De Souza, E. n., Khoury, M. n., Kist, M. N., Rodriguez, S. T.
2019
- **A multifaceted quality improvement project improves intraoperative redosing of surgical antimicrobial prophylaxis during pediatric surgery.** *Paediatric anaesthesia*
Colletti, A. A., Wang, E. n., Marquez, J. L., Schwenk, H. T., Yeverino, C. n., Sharek, P. J., Caruso, T. J.
2019
- **Crowd Sourced Assessment of Ureteroscopy with Laser Lithotripsy video feed does not correlate with Trainee Experience.** *Journal of endourology*
Conti, S. L., Brubaker, W., Chung, B. I., Sofer, M., Hsi, R. S., Shinghal, R., Elliott, C. S., Caruso, T., Leppert, J. T.
2018
- **The erector spinae plane (ESP) block: A pooled review of 242 cases.** *Journal of clinical anesthesia*
Tsui, B. C., Fonseca, A., Munshey, F., McFadyen, G., Caruso, T. J.
2018; 53: 29–34
- **Programmed Intermittent Bolus Regimen for Erector Spinae Plane Blocks in Children: A Retrospective Review of a Single-Institution Experience.** *Anesthesia and analgesia*
Munshey, F., Caruso, T. J., Wang, E. Y., Tsui, B. C.
2018
- **Safety Stop: A Valuable Addition to the Pediatric Universal Protocol** *JOINT COMMISSION JOURNAL ON QUALITY AND PATIENT SAFETY*
Caruso, T. J., Munshey, F., Aldorfer, B., Sharek, P. J.
2018; 44 (9): 552–56
- **The successful application of high flow nasal oxygen during microdirect laryngoscopy and bronchoscopy in patients under 7#kg.** *Journal of clinical anesthesia*
Caruso, T. J., Gupta, A., Sidell, D. R., Darling, C., Rodriguez, S., Fonseca, A., Tsui, B.
2018; 52: 27–28
- **A Retrospective Review of a Bed-mounted Projection System for Managing Pediatric Preoperative Anxiety.** *Pediatric quality & safety*
Caruso, T. J., Tsui, J. H., Wang, E., Scheinker, D., Sharek, P. J., Cunningham, C., Rodriguez, S. T.

2018; 3 (4): e087

- **Improving Satisfaction with Pediatric Pain Management by Inviting the Conversation.** *Joint Commission journal on quality and patient safety*
Caruso, T. J., Kung, T. H., Good, J. n., Taylor, K. n., Ashland, M. n., Cunningham, C. n., Gonzalez, E. n., Wood, M. n., Sharek, P. n.
2018; 44 (4): 227–32
- **A Postoperative Care Bundle Reduces Surgical Site Infections in Pediatric Patients Undergoing Cardiac Surgeries.** *Joint Commission journal on quality and patient safety*
Caruso, T. J., Wang, E. Y., Schwenk, H. n., Marquez, J. L., Cahn, J. n., Loh, L. n., Schaffer, J. n., Chen, K. n., Wood, M. n., Sharek, P. J.
2018
- **Intraoperative antibiotic redosing compliance and the extended postoperative recovery period: often overlooked areas that may reduce surgical site infections.** *Paediatric anaesthesia*
Caruso, T. J., Wang, E. n., Colletti, A. A., Sharek, P. J.
2018
- **Lumbar erector spinae plane catheter via a thoracic approach for iliac crest autograft in a pediatric patient.** *Journal of clinical anesthesia*
Darling, C. E., Lin, C. n., Caruso, T. J., Tsui, B. C.
2018; 54: 164–65
- **Augmented reality for intravenous access in an autistic child with difficult access.** *Paediatric anaesthesia*
Rodriguez, S. n., Munshey, F. n., Caruso, T. J.
2018; 28 (6): 569–70
- **Cervical erector spinae plane block catheter using a thoracic approach: an alternative to brachial plexus blockade for forequarter amputation.** *Canadian journal of anaesthesia = Journal canadien d'anesthesie*
Tsui, B. C., Mohler, D. n., Caruso, T. J., Horn, J. L.
2018
- **Bilateral automatized intermittent bolus erector spinae plane analgesic blocks for sternotomy in a cardiac patient who underwent cardiopulmonary bypass: A new era of Cardiac Regional Anesthesia.** *Journal of clinical anesthesia*
Tsui, B. C., Navaratnam, M. n., Boltz, G. n., Maeda, K. n., Caruso, T. J.
2018; 48: 9–10
- **Successful directional thoracic erector spinae plane block after failed lumbar plexus block in hip joint and proximal femur surgery.** *Journal of clinical anesthesia*
Darling, C. E., Pun, S. Y., Caruso, T. J., Tsui, B. C.
2018; 49: 1–2
- **Caution with the Posey® Cufflator™ cuff pressure manometers.** *Paediatric anaesthesia*
Kiberd, M. B., Swenson-Schalkwyk, A. K., Caruso, T. J.
2017; 27 (12): 1279-1280
- **A quality improvement initiative to optimize dosing of surgical antimicrobial prophylaxis.** *Paediatric anaesthesia*
Caruso, T. J., Wang, E., Schwenk, H. T., Scheinker, D., Yeverino, C., Tweedy, M., Maheru, M., Sharek, P. J.
2017; 27 (7): 702-710
- **Standardized ICU to OR handoff increases communication without delaying surgery.** *International journal of health care quality assurance*
Caruso, T. J., Marquez, J. L., Gipp, M. S., Kelleher, S. P., Sharek, P. J.
2017; 30 (4): 304-311
- **Pediatric Postoperative Pulse Oximetry Monitoring During Transport to the Postanesthesia Care Unit Reduces Frequency of Hypoxemia.** *Joint Commission journal on quality and patient safety*
Caruso, T. J., Mokhtari, T. E., Coughlan, M. J., Wu, D. S., Marquez, J. L., Duan, M. n., Freeman, H. n., Giustini, A. n., Tweedy, M. n., Sharek, P. J.
2017; 43 (3): 146–50
- **Provider-controlled virtual reality experience may adjust for cognitive load during vascular access in pediatric patients.** *Canadian journal of anaesthesia = Journal canadien d'anesthesie*
Yuan, J. C., Rodriguez, S. n., Caruso, T. J., Tsui, J. H.
2017

- **Interactive video game built for mask induction in pediatric patients.** *Canadian journal of anaesthesia = Journal canadien d'anesthesie*
Rodriguez, S. n., Tsui, J. H., Jiang, S. Y., Caruso, T. J.
2017
- **Bedside Entertainment and Relaxation Theater: size and novelty does matter when using video distraction for perioperative pediatric anxiety.** *Paediatric anaesthesia*
Rodriguez, S. n., Caruso, T. n., Tsui, B. n.
2017; 27 (6): 668-69
- **A Strategic Approach to Implementation of Medical Mentorship Programs.** *Journal of graduate medical education*
Caruso, T. J., Steinberg, D. H., Piro, N., Walker, K., Blankenburg, R., Rassbach, C., Marquez, J. L., Katznelson, L., Dohn, A.
2016; 8 (1): 68-73
- **Implementation of a standardized postanesthesia care handoff increases information transfer without increasing handoff duration.** *Joint Commission journal on quality and patient safety / Joint Commission Resources*
Caruso, T. J., Marquez, J. L., Wu, D. S., Shaffer, J. A., Balise, R. R., Groom, M., Leong, K., Mariano, K., Honkanen, A., Sharek, P. J.
2015; 41 (1): 35-42
- **Images in clinical medicine. Severe vitamin D deficiency--rickets.** *New England journal of medicine*
Caruso, T. J., Fuzaylov, G.
2013; 369 (9)
- **Airway management of recovered pediatric patients with severe head and neck burns: a review** *PEDIATRIC ANESTHESIA*
Caruso, T. J., Janik, L. S., Fuzaylov, G.
2012; 22 (5): 462-468
- **Complementary and Alternative Medicine for Pain: An Evidence-based Review** *CURRENT PAIN AND HEADACHE REPORTS*
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