Stanford



R J Ramamurthi

Clinical Professor, Anesthesiology, Perioperative and Pain Medicine

CLINICAL OFFICE (PRIMARY)

- **Anesthesia Department**

  300 Pasteur Dr Rm H3580

  MC 5640

  Stanford, CA 94305

  Tel (650) 723-5728 **Fax** (650) 725-8444

Bio

CLINICAL FOCUS

- Pediatric anesthesia
- Regional analgesia
- Anesthesia for solid organ transplant
- Pediatric Difficult Airway
- Pediatric Anesthesia

ACADEMIC APPOINTMENTS

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

ADMINISTRATIVE APPOINTMENTS

- Director, Stanford University Pediatric Regional Anesthesia (SUPRA) program, (2024- present)
- Clinical Director, Pediatric Anesthesia, (2006-2013)
- Co-Chair, Stanford University Pediatric Regional Anesthesia (SUPRA) program, (2015-2024)
- Director, Pediatric Anesthesia Resource Center, (2013-2015)

HONORS AND AWARDS

- Teacher of the year 2020, Pediatric anesthesia fellows -class of 2020 (2019-2020) (7/2020)
- Faculty of the year 2023, Pediatric anesthesia fellows - class of 2023 (2022-2023) (07/22/2023)

PROFESSIONAL EDUCATION

- Certificate, The American Society of Anesthesiologists , Diagnostic POCUS Certificate Program (2023)
- Board Certification: Anesthesia, The Royal College of Anaesthetists (1997)
- Medical Education: University of Madras (1998)

- Residency: Basildon General Hospital (1995) UK
- Internship: Madras University Medicine (1987) India
- Residency: Walsgrave Hospitals (2000) United Kingdom
- FRCA, Royal College of Anaes.,UK , Anesthesiology (1997)
- MD, DR MGR Medical Univ.,India , Anesthesiology (1992)
- Dip NB, National Board of Examinations , Anesthesiology (1991)
- MBBS, University of Madras,India , Medicine (1988)

COMMUNITY AND INTERNATIONAL WORK

- Destination Hope, San Jose Mindoro, Philippines
- HUGS, Antigua, Guatemala

PATENTS

- Radhamangalm Ramamurthi. "United States Patent 13/041,387 Indwelling Nerve Block Catheters", SRI, Stanford University, Sep 8, 2011

LINKS

- Stanford Pediatric Anesthesiology: https://med.stanford.edu/pedsanesthesia.html
- Stanford University Pediatric Regional Anesthesia: https://pedsregional.stanford.edu/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Prospective collection of pediatric regional block procedures and complications on to a national database

CLINICAL TRIALS

- Does Caudal Block Increase the Incidence of Urethrocutaneous Fistula Formation Following Hypospadias Repair in Infants?, Not Recruiting
- Investigation of Remimazolam in Children Undergoing Sedation for Medical Procedures, Not Recruiting
- Multicenter Perioperative Opioid Pharmacogenetic Study, Not Recruiting

Publications

PUBLICATIONS

- **Multi-Institutional Study of Multimodal Analgesia Practice, Pain Trajectories, and Recovery Trends After Spine Fusion for Idiopathic Scoliosis.** *Anesthesia and analgesia*
  Einhorn, L. M., Monitto, C. L., Ganesh, A., Duan, Q., Lee, J., Ramamurthi, R. J., Barnett, K., Ding, L., Chidambaran, V.
  2025
- **Electroencephalogram-Guided General Anesthesia in a Pediatric Patient With Alexander's Disease: A Case Report.** *A&A practice*
  Zhang, M., Mather, R. V., Chung, A. R., Leung, C. F., Ramamurthi, R. J., Purdon, P. L.
  2025; 19 (1): e01910
- **Multicenter study of OPRM1 A118G and promoter-region DNA methylation associations with opioid outcomes and chronic postsurgical pain after pediatric musculoskeletal surgery** *PAIN REPORTS*
  Upton, B. A., Krolick, K. N., Zhang, X., Pilipenko, V., Martin, L. J., Ji, H., Glynn, S., Barnett, K., Ganesh, A., Monitto, C. L., Einhorn, L. M., Ramamurthi, R. J., Chidambaran, et al
  2024; 9 (6)
- **Decreasing Emergence Agitation with Personalized Music (DEAP Music): A Multicenter Pilot Study**
  Sanofsky, B., Ambler, M., Anderson, Z., Whitaker, E., Ramamurthi, R. J.
  LIPPINCOTT WILLIAMS & WILKINS.2024: 662-664

- **Remimazolam in Pediatric Anesthesia and Sedation** *CURRENT ANESTHESIOLOGY REPORTS*
  Ramamurthi, R. J., Hammer, G.
  2023
- **Validation of Remote Video Scoring of the Pediatric Anesthesia Emergence Delirium Scale: A Proof of Concept**
  Ambler, M., Bhamidipati, J., Anderson, Z., Sanofsky, B., Ramamurthi, R. J.
  LIPPINCOTT WILLIAMS & WILKINS.2023: 754-756
- **The Effect of Novel Decision Support Tools on Technical and Non-Technical Performance of Teams in Managing Emergencies.** *Journal of medical systems*
  Watkins, S. C., de Oliveira Filho, G. R., Furse, C. M., Muffly, M. K., Ramamurthi, R. J., Redding, A. T., Maass, B., McEvoy, M. D.
  2022; 46 (11): 75
- **Iatrogenic Pediatric Pneumothorax: Comment.** *Anesthesiology*
  Xie, J., Ramamurthi, R. J.
  2022
- **Decreasing Emergence Agitation with Personalized Music (DEAP Music): A Pilot Trial**
  Sanofsky, B., Thawani, A., Ramamurthi, R. J., Whitaker, E.
  LIPPINCOTT WILLIAMS & WILKINS.2022: 919-925
- **Anesthesia Machine Oxygen Analyzer Error Margins**
  Xie, J., Ramamurthi, R. J.
  LIPPINCOTT WILLIAMS & WILKINS.2022: 53
- **Ultrasound Verification of Laparoscopic-Assisted Transversus Abdominis Plane Blocks in Children Undergoing Laparoscopic Procedures.** *Journal of laparoendoscopic & advanced surgical techniques. Part A*
  Taylor, J. S., Ramamurthi, R. J., Austin, J., Gibson, M., Diyaolu, M., Munshey, F., McFadyen, G., Tsui, B., Chao, S. D.
  1800
- **Expert Consensus Statement on the Perioperative Management of Adult Patients Undergoing Head and Neck Surgery and Free Tissue Reconstruction From the Society for Head and Neck Anesthesia.** *Anesthesia and analgesia*
  Healy, D. W., Cloyd, B. H., Straker, T., Brenner, M. J., Damrose, E. J., Spector, M. E., Saxena, A., Atkins, J. H., Ramamurthi, R. J., Mehta, A., Aziz, M. F., Cattano, D., Levine, et al
  2021; 133 (1): 274-283
- **Laparoscopic versus ultrasound-guided visualization of transversus abdominis plane blocks.** *Journal of pediatric surgery*
  Diyaolu, M., Taylor, J., Austin, J., Gibson, M., Ramamurthi, R. J., Tsui, B., Chao, S.
  2021
- **Tools for Assessing the Performance of Pediatric Perioperative Teams During Simulated Crises: A Psychometric Analysis of Clinician Raters' Scores** *SIMULATION IN HEALTHCARE-JOURNAL OF THE SOCIETY FOR SIMULATION IN HEALTHCARE*
  Watkins, S. C., de Oliveira Filho, G. R., Furse, C. M., Muffly, M. K., Ramamurthi, R. J., Redding, A. T., Maass, B., McEvoy, M. D.
  2021; 16 (1): 20–28
- **Tools for Assessing the Performance of Pediatric Perioperative Teams During Simulated Crises: A Psychometric Analysis of Clinician Raters' Scores.** *Simulation in healthcare : journal of the Society for Simulation in Healthcare*
  Watkins, S. C., de Oliveira Filho, G. R., Furse, C. M., Muffly, M. K., Ramamurthi, R. J., Redding, A. T., Maass, B., McEvoy, M. D.
  2021; 16 (1): 20-28
- **Variation in pediatric local anesthetic dosing for peripheral nerve blocks: an analysis from the Pediatric Regional Anesthesia Network (PRAN).** *Regional anesthesia and pain medicine*
  Taenzer, A. H., Herrick, M., Hoyt, M., Ramamurthi, R. J., Walker, B., Flack, S. H., Bosenberg, A., Franklin, A., Polaner, D. M., PRAN investigators, PRAN investigator, Bosenberg, A., Flack, S., Polaner, et al
  2020
- **Complications in Pediatric Regional Anesthesia An Analysis of More than 100,000 Blocks from the Pediatric Regional Anesthesia Network** *ANESTHESIOLOGY*
  Walker, B. J., Long, J. B., Sathyamoorthy, M., Birstler, J., Wolf, C., Bosenberg, A. T., Flack, S. H., Krane, E. J., Sethna, N. F., Suresh, S., Taenzer, A. H., Polaner, D. M., Pediat Regional Anesthesia Network
  2018; 129 (4): 721–32

- **Complications in Pediatric Regional Anesthesia: An Analysis of More than 100,000 Blocks from the Pediatric Regional Anesthesia Network.** *Anesthesiology*
  Walker, B. J., Long, J. B., Sathyamoorthy, M., Birstler, J., Wolf, C., Bosenberg, A. T., Flack, S. H., Krane, E. J., Sethna, N. F., Suresh, S., Taenzer, A. H., Polaner, D. M., Martin, et al
  2018
- **Early experience with PECS 1 block for Port-a-Cath insertion or removal in children at a single institution.** *Journal of clinical anesthesia*
  Munshey, F., Ramamurthi, R. J., Tsui, B.
  2018; 49: 63–64
- **Bilateral continuous erector spinae plane blocks for sternotomy in a pediatric cardiac patient.** *Journal of clinical anesthesia*
  Wong, J., Navaratnam, M., Boltz, G., Maeda, K., Ramamurthi, R. J., Tsui, B. C.
  2018; 47: 82–83
- **PECS 1 BLOCK FOR PORT-A-CATH INSERTION OR REMOVAL IN CHILDREN: A RETROSPECTIVE REVIEW**
  Munshey, F., Ramamurthi, R. J., Tsui, B.
  LIPPINCOTT WILLIAMS & WILKINS.2018: 550
- **Nusinersen versus Sham Control in Later-Onset Spinal Muscular Atrophy** *NEW ENGLAND JOURNAL OF MEDICINE*
  Mercuri, E., Darras, B. T., Chiriboga, C. A., Day, J. W., Campbell, C., Connolly, A. M., Iannaccone, S. T., Kirschner, J., Kuntz, N. L., Saito, K., Shieh, P. B., Tulinius, M., Mazzone, et al
  2018; 378 (7): 625–35
- **Nusinersen versus Sham Control in Infantile-Onset Spinal Muscular Atrophy.** *The New England journal of medicine*
  Finkel, R. S., Mercuri, E. n., Darras, B. T., Connolly, A. M., Kuntz, N. L., Kirschner, J. n., Chiriboga, C. A., Saito, K. n., Servais, L. n., Tizzano, E. n., Topaloglu, H. n., Tulinius, M. n., Montes, et al
  2017; 377 (18): 1723–32
- **The Role of Sugammadex in Symptomatic Transient Neonatal Myasthenia Gravis: A Case Report.** *A & A case reports*
  Rubin, J. E., Ramamurthi, R. J.
  2017; 9 (9): 271–73
- **Improving prediction of surgery duration using operational and temporal factors.** *AMIA ... Annual Symposium proceedings / AMIA Symposium. AMIA Symposium*
  Kayis, E., Wang, H., Patel, M., Gonzalez, T., Jain, S., Ramamurthi, R. J., Santos, C., Singhal, S., Suermondt, J., Sylvester, K.
  2012; 2012: 456-462
- **Improving electrical safety for patients with Epidermolysis bullosa** *PEDIATRIC ANESTHESIA*
  Edler, A. A., Ramamurthi, R. J., Valenzuela, G. A.
  2008; 18 (11): 1107-1109
- **The use of dexmedetomidine during laryngoscopy, bronchoscopy, and tracheal extubation following tracheal reconstruction** *PEDIATRIC ANESTHESIA*
  Seybold, J. L., Ramamurthi, R. J., Hammer, G. B.
  2007; 17 (12): 1212-1214
- **Local anesthetic pharmacology in pediatric anesthesia** *Techniques in Regional Anesthesia and Pain Management*
  R J Ramamurthi, Elliot J Krane
  2007; 11 (4): 229-234
- **Clonidine for the prevention of emergence agitation in young children: efficacy and recovery profile** *PEDIATRIC ANESTHESIA*
  Malviya, S., Voepel-Lewis, T., Ramamurthi, R. J., Burke, C., Tait, A. R.
  2006; 16 (5): 554-559
- **Acute gastric distension: a lesson from the classics** *HOSPITAL MEDICINE*
  Ramamurthi, R. J., Tatman, A.
  2001; 62 (3): 187-187
- **Anaesthesia for Intestinal Obstruction in children** *http://www.anaesthesiauk.com/article.aspx?articleid=101005*
  Ramamurthi R J, Wilson C M