Stanford



Anita Honkanen

Clinical Professor, Anesthesiology, Perioperative and Pain Medicine

CLINICAL OFFICE (PRIMARY)

- **Anesthesia**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

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Bio

BIO

Dr. Honkanen joined the Stanford Faculty in 2003 in the Division of Pediatric Anesthesiology. She was the Chief of the Division from 2006 through 2019, and splits her time between clinical care, administrative duties, teaching, and research. She helped develop the in-situ pediatric simulation models used at LPCH and now at other institutions, and assists with MOCA simulation courses for ABA recertification. She is currently the Associate Dean of Wellness and Student Life Advising in the Stanford University School of Medicine. Her current research interests relate to physician, trainee, and student wellness.

CLINICAL FOCUS

- Pediatric Anesthesia

ACADEMIC APPOINTMENTS

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

ADMINISTRATIVE APPOINTMENTS

- Instructor in Anesthesia, Harvard Medical School, (1995-1999)
- Associate Dean of Wellness and Student Life Advising, Stanford University School of Medicine, (2021- present)
- Clinical Assistant Professor in Anesthesia, Stanford Medical School, (2003-2006)
- Clinical Associate Professor in Anesthesia, Stanford Medical School, (2006-2011)
- Chief of Pediatric Anesthesia, Stanford University, (2006-2019)
- Co-Director Operating Rooms, Lucile Packard Children's Hospital, (2007-2016)
- Clinical Professor of Anesthesia, Stanford University, (2011- present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Section on Anesthesiology and Pain Medicine, Executive Committee, American Academy of Pediatrics (2013 - present)

PROFESSIONAL EDUCATION

- Board Certification: Pediatric Anesthesia, American Board of Anesthesiology (2013)
- Medical Education: Tufts University School of Medicine (1987) MA
- Residency: Massachusetts General Hospital Anesthesiology Residency (1995) MA
- Fellowship: Boston Children's Hospital Dept of Anesthesiology (1994) MA
- Board Re-Certification, American Board of Anesthesiology , Anesthesia (2009)
- MS, Stanford University , Health Services Research (2012)
- Board Certification: Anesthesia, American Board of Anesthesiology (1996)
- Internship: Walter Reed Army Medical Center (1988) DC
- Anesthesia, Massachusetts General Hospital , Anesthesiology (1994)
- Pediatric Anesthesia, Children's Hospital Boston , Pediatric Anesthesia (1994)
- Aviation Medicine, US Army Medical Corp , Aviation Medicine (1988)
- MD, Tufts University , Medicine (1987)
- BS, M.I.T. , Biology (1983)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Developing educational and system testing models for team OR environment using high fidelity simulation

Studying Pediatric Perioperative Outcomes and Cost-effectiveness for Pediatric Surgical and Anesthetic Care

Teaching

COURSES

2026-27

- Financial Wellness: INDE 227 (Win)
- Peer Education on Comprehensive Sexual Health: ANES 191, FEMGEN 191, SOMGEN 191 (Win)
- Wilderness Leadership and Mentorship Skills for Medical and PA Students: INDE 225 (Sum)

2025-26

- Financial Wellness: INDE 227 (Spr)
- Peer Education on Comprehensive Sexual Health: ANES 191 (Win, Spr)
- Wilderness Leadership and Mentorship Skills for Medical and PA Students: ANES 235, INDE 225 (Aut, Sum)

2024-25

- Peer Mentoring for Medical and MSPA Students: ANES 231 (Aut)
- Wilderness Leadership and Mentorship Skills for Medical and PA Students: ANES 235 (Aut, Sum)

2023-24

- Peer Mentoring for Medical and MSPA Students: ANES 231 (Aut)
- Wilderness Leadership and Mentorship Skills for Medical and PA Students: ANES 235 (Aut, Sum)

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Anesthesia (Fellowship Program)

Publications

PUBLICATIONS

- **Reviewing "Nil Per Os" Guidance for Clear Fluids in Children Before Anesthesia: Survey of the Pediatric Anesthesia Leadership Council.** *Anesthesia and analgesia*
  Dalal, P. G., Malviya, S., Cravero, J., Fehr, J.
  2024

- **Clinical Study of Continuous Non-Invasive Blood Pressure Monitoring in Neonates.** *Sensors (Basel, Switzerland)*
  Rao, A., Eskandar-Afshari, F., Weiner, Y., Billman, E., McMillin, A., Sella, N., Roxlo, T., Liu, J., Leong, W., Helfenbein, E., Walendowski, A., Muir, A., Joseph, et al
  2023; 23 (7)

- **Evaluating the Women's Empowerment and Leadership Initiative: supporting mentorship, career satisfaction, and well-being among pediatric anesthesiologists.** *Paediatric anaesthesia*
  Deutsch, N., Yanofsky, S. D., Markowitz, S. D., Tackett, S., Berenstain, L. K., Schwartz, L. I., Flick, R., Heitmiller, E., Fiadjoe, J., Lee, H. H., Honkanen, A., Malviya, S., Lee, et al
  2022

- **Revisiting Pediatric NPO Guidelines: a 5-Year Update and Practice Considerations** *CURRENT ANESTHESIOLOGY REPORTS*
  Lobaugh, L., Ojo, B., Pearce, B., Kitzman, J., Lau, J., Hall, S., Thompson, N. C. P., Jain, R. R., Peterson, M., Wolke, O., Honkanen, A., Taylor, K.
  2021

- **Empowering Women as Leaders in Pediatric Anesthesiology: Methodology, Lessons, and Early Outcomes of a National Initiative.** *Anesthesia and analgesia*
  Schwartz, J. M., Markowitz, S. D., Yanofsky, S. D., Tackett, S., Berenstain, L. K., Schwartz, L. I., Flick, R., Heitmiller, E., Fiadjoe, J., Lee, H. H., Honkanen, A., Malviya, S., Cladis, et al
  2021

- **Vaping and E-Cigarette Use in Children and Adolescents: Implications on Perioperative Care From the American Society of Anesthesiologists Committee on Pediatric Anesthesia, Society for Pediatric Anesthesia, and American Academy of Pediatrics Section on Anesthesiology and Pain Medicine.** *Anesthesia and analgesia*
  Rusy, D. A., Honkanen, A., Landrigan-Ossar, M. F., Chatterjee, D., Schwartz, L. I., Lalwani, K., Dollar, J. R., Clark, R., Diaz, C. D., Deutsch, N., Warner, D. O., Soriano, S. G.
  2021

- **Practice Characteristics of Board-certified Pediatric Anesthesiologists in the US: A Nationwide Survey** *CUREUS*
  Muffly, M., Scheinker, D., Muffly, T., Singleton, M., Agarwal, R., Honkanen, A.
  2019; 11 (9)

- **Practice Characteristics of Board-certified Pediatric Anesthesiologists in the US: A Nationwide Survey.** *Cureus*
  Muffly, M., Scheinker, D., Muffly, T., Singleton, M., Agarwal, R., Honkanen, A.
  2019; 11 (9): e5745

- **Hospitalization Patterns for Inpatient Surgery and Procedures in California:2000 – 2016** *Anesthesia and Analgesia*
  Muffly, M. K., Honkanen, A., Scheinker, D., Wang, T., Saynina, O., Singleton, M. A., , Wang, C. J., Sanders, L. M.
  2019

- **Ultrafast pediatric chest computed tomography: comparison of free-breathing vs. breath-hold imaging with and without anesthesia in young children.** *Pediatric radiology*
  Kino, A., Zucker, E. J., Honkanen, A., Kneebone, J., Wang, J., Chan, F., Newman, B.
  2018

- **The Pediatric Anesthesiology Workforce: Projecting Supply and Trends 2015-2035** *ANESTHESIA AND ANALGESIA*
  Muffly, M. K., Singleton, M., Agarwal, R., Scheinker, D., Miller, D., Muffly, T. M., Honkanen, A.
  2018; 126 (2): 568–78

- **In Response.** *Anesthesia and analgesia*
  Muffly, M., Honkanen, A., Singleton, M.

2017

- **The Geographic Distribution of Pediatric Anesthesiologists Relative to the U.S. Pediatric Population.** *Anesthesia and analgesia*
  Muffly, M. K., Medeiros, D., Muffly, T. M., Singleton, M. A., Honkanen, A.
  2016: -?

- **The Current Landscape of US Pediatric Anesthesiologists: Demographic Characteristics and Geographic Distribution** *ANESTHESIA AND ANALGESIA*
  Muffly, M. K., Muffly, T. M., Weterings, R., Singleton, M., Honkanen, A.
  2016; 123 (1): 179-185

- **Postoperative Complications in Pediatric Tonsillectomy and Adenoidectomy in Ambulatory vs Inpatient Settings** *JAMA OTOLARYNGOLOGY-HEAD & NECK SURGERY*
  Amoils, M., Chang, K. W., Saynina, O., Wise, P. H., Honkanen, A.
  2016; 142 (4): 344-350

- **Critical Elements for the Pediatric Perioperative Anesthesia Environment** *PEDIATRICS*
  Polaner, D. M., Houck, C. S., Tobias, J., Agarwal, R., Anderson, C., Bannister, C., Hardy, C., Honkanen, A., Rehman, M., Flick, R., Houck, C., Riefe, J.
  2015; 136 (6): 1200-1205

- **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

- **Variations in inpatient pediatric anesthesia in California from 2000 to 2009: a caseload and geographic analysis** *PEDIATRIC ANESTHESIA*
  Mudumbai, S. C., Honkanen, A., Chan, J., Schmitt, S., Saynina, O., Hackel, A., Gregory, G., Phibbs, C. S., Wise, P. H.
  2014; 24 (12): 1295-1301

- **Variations in inpatient pediatric anesthesia in California from 2000 to 2009: a caseload and geographic analysis.** *Paediatric anaesthesia*
  Mudumbai, S. C., Honkanen, A., Chan, J., Schmitt, S., Saynina, O., Hackel, A., Gregory, G., Phibbs, C. S., Wise, P. H.
  2014; 24 (12): 1295-1301

- **The Pediatrician's Role in the Evaluation and Preparation of Pediatric Patients Undergoing Anesthesia** *PEDIATRICS*
  Goldschneider, K. R., Cravero, J. P., Anderson, C., Bannister, C., Hardy, C., Honkanen, A., Rehman, M., Tobias, J.
  2014; 134 (3): 634-641

- **Simulation in pediatric anesthesiology** *PEDIATRIC ANESTHESIA*
  Fehr, J. J., Honkanen, A., Murray, D. J.
  2012; 22 (10): 988-994

- **Cost-effectiveness Analysis of Adjunct VSL#3 Therapy Versus Standard Medical Therapy in Pediatric Ulcerative Colitis** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
  Park, K. T., Perez, F., Tsai, R., Honkanen, A., Bass, D., Garber, A.
  2011; 53 (5): 489-496

- **Affordable Simulation for Small-Scale Training and Assessment** *SIMULATION IN HEALTHCARE*
  Edler, A. A., Chen, M., Honkanen, A., Hackel, A., Golianu, B.
  2010; 5 (2): 112-115