



Nicole Yamada

Clinical Professor, Pediatrics - Neonatology

CLINICAL OFFICE (PRIMARY)

- Neonatal Intensive Care

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Bio

CLINICAL FOCUS

- Neonatal Resuscitation
- Neonatal-Perinatal Medicine

ACADEMIC APPOINTMENTS

- Clinical Professor, Pediatrics - Neonatology
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Interim Division Co-Chief, Division of Neonatal and Developmental Medicine, Stanford University School of Medicine, (2025- present)
- Medical Director, Neonatal Critical Care Transport Team, Lucile Packard Children's Hospital, (2017- present)
- Associate Director, Center for Advanced Pediatric and Perinatal Education (CAPE, cape.stanford.edu), (2015- present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Co-Chair, Neonatal Resuscitation Program (NRP) Steering Committee (2025 - present)
- Member, Neonatal Resuscitation Program (NRP) Steering Committee (2022 - 2025)
- Member, AHA/AAP Neonatal Life Support Writing Group (2019 - present)
- Member, Neonatal Life Support Task Force, International Liaison Committee on Resuscitation (ILCOR) (2025 - present)
- Associate Member, Neonatal Life Support Task Force, International Liaison Committee on Resuscitation (ILCOR) (2024 - 2025)
- Content Expert, Neonatal Life Support Task Force, International Liaison Committee on Resuscitation (ILCOR) (2015 - 2024)
- Member, Society for Pediatric Research (2019 - present)
- Member, Human Factors and Ergonomics Society (2014 - present)
- Member, International Pediatric Simulation Society (2014 - present)

- Member, California Association of Neonatologists (2013 - present)
- Member, Society for Simulation in Healthcare (2012 - 2016)
- Member, American Academy of Pediatrics (2009 - present)

PROFESSIONAL EDUCATION

- Board Certification, American Board of Pediatrics , Neonatal-Perinatal Medicine (2018)
- Board Certification: Pediatrics, American Board of Pediatrics (2012)
- M.S., San José State University , Human Factors and Ergonomics (2018)
- Fellowship: Stanford University School of Medicine (2015) CA
- Residency: UCSD Medical Center (2012) CA
- Internship: UCSD Medical Center (2010) CA
- Medical Education: Washington University School Of Medicine (2009) MO

Research & Scholarship

PROJECTS

- Impact of Standardized Communication on Human Performance During Neonatal Resuscitation
- Determination of the rate of common deviations from the NRP algorithm and evaluation of focused strategies for remediation - CAPE at Stanford

Publications

PUBLICATIONS

- **From constraints to solutions: leveraging low-cost, scalable simulation for safer neonatal resuscitation.** *Seminars in fetal & neonatal medicine*
Kong, J. Y., Yamada, N. K.
2026: 101736
- **Ergonomic Considerations in Neonatal Cardiopulmonary Resuscitation: Implications for Practice.** *Advances in neonatal care : official journal of the National Association of Neonatal Nurses*
Harrod Clark, H., Parent-Nichols, J., McWilliam, P., King, B., Galindo, R., Halamek, L. P., Yamada, N. K.
2026
- **Impact of Postnatal Heart Rate Assessment on Delayed Cord Clamping in Neonatal Resuscitation (Dec, 10.1055/a-2743-4429, 2025)** *AMERICAN JOURNAL OF PERINATOLOGY*
Yum, S., Galindo, R. B., Pineda, L., Yamada, N. K.
2026
- **Weight Gain in Infants With Pierre Robin Sequence: A Comparison of Nonsurgical Orthodontic Airway Plate Versus Surgical Mandibular Distraction Osteogenesis.** *The Cleft palate-craniofacial journal : official publication of the American Cleft Palate-Craniofacial Association*
Wu, R. T., Grande, P., Park, J. Y., Yamada, N. K., Zhang, J., Lorenz, H. P., Menard, R., Forrest, C. R., Choo, H.
2026: 10556656251414397
- **Impact of Postnatal Heart Rate Assessment on Delayed Cord Clamping in Neonatal Resuscitation.** *American journal of perinatology*
Yum, S. K., Yamada, N. K., Galindo, R. B., Pineda, L.
2025
- **Using simulation to prepare multidisciplinary teams and clinical environments for complex fetal interventions and resuscitation.** *Journal of perinatology : official journal of the California Perinatal Association*
Halamek, L. P., Blumenfeld, Y. J., Balakrishnan, K., Sylvester, K., Galindo, R. B., Davis, A. S., Yamada, N. K., Hintz, S. R.
2025
- **The Value of a Cross-Disciplinary Approach to Human and System Performance Research in Obstetrics and Neonatology: AHRQ's Patient Safety Learning Laboratory.** *Journal of patient safety*

- Halamek, L. P., Galindo, R. B., Follmer, S., Yamada, N. K., Catchpole, K., Lusk, C., Pineda, L., Daniels, K., Lipman, S., Lee, H. C.
2025; 21 (7Supp): S52-S59
- **Utilizing Recorded Resuscitations for Neonatal Team Process Improvement.** *Joint Commission journal on quality and patient safety*
Moore, A., Halamek, L. P., Fuerch, J. H., Galindo, R. B., Yamada, N. K.
2025
 - **Implementation of a multi-site neonatal simulation improvement program: a cost analysis.** *BMC health services research*
Xu, X., Yao, J., Bohnert, J., Yamada, N., Lee, H. C.
2024; 24 (1): 623
 - **2023 American Heart Association and American Academy of Pediatrics Focused Update on Neonatal Resuscitation: An Update to the American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care** *CIRCULATION*
Yamada, N. K., Szyld, E., Strand, M. L., Finan, E., Illuzzi, J. L., Kamath-Rayne, B. D., Kapadia, V. S., Niermeyer, S., Schmoelzer, G. M., Williams, A., Weiner, G. M., Wyckoff, M. H., Lee, et al
2024; 149 (1): e157-e166
 - **The difficult neonatal airway.** *Seminars in fetal & neonatal medicine*
Sawyer, T., Yamada, N., Umoren, R.
2023: 101484
 - **2023 American Heart Association and American Academy of Pediatrics Focused Update on Neonatal Resuscitation: An Update to the American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care.** *Pediatrics*
Yamada, N. K., Szyld, E., Strand, M. L., Finan, E., Illuzzi, J. L., Kamath-Rayne, B. D., Kapadia, V. S., Niermeyer, S., Schmolzer, G. M., Williams, A., Weiner, G. M., Wyckoff, M. H., Lee, et al
2023
 - **Novel umbilical catheter securement and protection device for umbilical line securement during laparotomy.** *American journal of perinatology*
Salimi Jazi, F., Wood, L., Rafeeqi, T., Yamada, N. K., Fuerch, J. H., Wall, J. K.
2023
 - **In Situ Simulation and Clinical Outcomes in Infants Born Preterm.** *The Journal of pediatrics*
Chitkara, R., Bennett, M., Bohnert, J., Yamada, N., Fuerch, J., Halamek, L. P., Quinn, J., Padua, K., Gould, J., Profit, J., Xu, X., Lee, H. C.
2023: 113715
 - **Neonatal Healthcare Professionals' Experiences When Implementing a Simulation and Debriefing Program in Neonatal Intensive Care Settings: A Qualitative Analysis.** *Advances in neonatal care : official journal of the National Association of Neonatal Nurses*
Quinn, J., Quinn, M., Lieu, B., Bohnert, J., Halamek, L. P., Profit, J., Fuerch, J. H., Chitkara, R., Yamada, N. K., Gould, J., Lee, H. C.
2023
 - **The Evolution of Neonatal Patient Safety.** *Clinics in perinatology*
Yamada, N. K., Halamek, L. P.
2023; 50 (2): 421-434
 - **A Novel Method for Administering Epinephrine During Neonatal Resuscitation.** *American journal of perinatology*
Gu, H., Perl, J., Rhine, W., Yamada, N. K., Sherman, J., McMillin, A., Halamek, L., Wall, J. K., Fuerch, J. H.
2023
 - **Implementation of Video Laryngoscope Assisted Coaching Reduces Adverse Tracheal Intubation Associated Events in the PICU.** *Critical care medicine*
Giuliano, J. J., Krishna, A., Napolitano, N., Panisello, J., Sheno, A., Sanders, R. C., Rehder, K., Al-Subu, A., Brown, C. 3., Edwards, L., Wright, L., Pinto, M., Harwayne-Gidansky, et al
2023
 - **The Debriefing Assessment in Real Time (DART) tool for simulation-based medical education.** *Advances in simulation (London, England)*
Baliga, K., Halamek, L. P., Warburton, S., Mathias, D., Yamada, N. K., Fuerch, J. H., Coggins, A.
2023; 8 (1): 9
 - **2022 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations: Summary From the Basic Life Support; Advanced Life Support; Pediatric Life Support; Neonatal Life Support; Education, Implementation, and Teams; and First Aid Task Forces** *CIRCULATION*

- Wyckoff, M. H., Greif, R., Morley, P. T., Ng, K., Olasveengen, T. M., Singletary, E. M., Soar, J., Cheng, A., Drennan, I. R., Liley, H. G., Scholefield, B. R., Smyth, M. A., Welsford, et al
2022; 146 (25): E483-E557
- **2022 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations: Summary From the Basic Life Support; Advanced Life Support; Pediatric Life Support; Neonatal Life Support; Education, Implementation, and Teams; and First Aid Task Forces** *RESUSCITATION*
Wyckoff, M. H., Greif, R., Morley, P. T., Ng, K., Olasveengen, T. M., Singletary, E. M., Soar, J., Cheng, A., Drennan, I. R., Liley, H. G., Scholefield, B. R., Smyth, M. A., Welsford, et al
2022; 181: 208-288
 - **Pilot study of the DART tool - an objective healthcare simulation debriefing assessment instrument.** *BMC medical education*
Baliga, K., Coggins, A., Warburton, S., Mathias, D., Yamada, N. K., Fuerch, J. H., Halamek, L. P.
2022; 22 (1): 636
 - **Supraglottic Airways Compared With Face Masks for Neonatal Resuscitation: A Systematic Review.** *Pediatrics*
Yamada, N. K., McKinlay, C. J., Quek, B. H., Schmolzer, G. M., Wyckoff, M. H., Liley, H. G., Rabi, Y., Weiner, G. M.
2022
 - **A prospective observational study of video laryngoscopy guided coaching in the PICU.** *Paediatric anaesthesia*
Laverriere, E., Fiadjoe, J. E., McGowan, N., Bruins, B. B., Napolitano, N., Watanabe, I., Yamada, N. K., Walsh, C. M., Berg, R. A., Nadkarni, V. M., Nishisaki, A.
2022
 - **Impact of bed height on the biomechanics of healthcare professionals during chest compressions on the neonate: a descriptive pilot study.** *BMJ open*
Parent-Nichols, J., Perez, J., Witherell, B., McWilliam, P., Halamek, L. P., Kent, N., Varnum, W., Yamada, N. K.
2021; 11 (9): e047666
 - **Use of briefing and debriefing in neonatal resuscitation, a scoping review.** *Resuscitation plus*
Fawke, J., Stave, C., Yamada, N.
2021; 5: 100059
 - **Lessons Learned from a Collaborative to Develop a Sustainable Simulation-Based Training Program in Neonatal Resuscitation: Simulating Success.** *Children (Basel, Switzerland)*
Arul, N. n., Ahmad, I. n., Hamilton, J. n., Sey, R. n., Tillson, P. n., Hutson, S. n., Narang, R. n., Norgaard, J. n., Lee, H. C., Bergin, J. n., Quinn, J. n., Halamek, L. P., Yamada, et al
2021; 8 (1)
 - **Single-center task analysis and user-centered assessment of physical space impacts on emergency Cesarean delivery.** *PloS one*
Sotto, K. T., Hedli, L. C., Sie, L., Padua, K., Yamada, N., Lee, H., Halamek, L., Daniels, K., Nathan-Roberts, D., Austin, N. S.
2021; 16 (6): e0252888
 - **A Neonatal Intensive Care Unit's Experience with Implementing an In-Situ Simulation and Debriefing Patient Safety Program in the Setting of a Quality Improvement Collaborative.** *Children (Basel, Switzerland)*
Eckels, M. n., Zeilinger, T. n., Lee, H. C., Bergin, J. n., Halamek, L. P., Yamada, N. n., Fuerch, J. n., Chitkara, R. n., Quinn, J. n.
2020; 7 (11)
 - **Validation of an Instrument for Real-Time Assessment of Neonatal Intubation Skills: A Randomized Controlled Simulation Study.** *American journal of perinatology*
Kuijpers, L. J., Binkhorst, M. n., Yamada, N. K., Bouwmeester, R. N., van Heijst, A. F., Halamek, L. P., Hogeveen, M. n.
2020
 - **2019 American Heart Association Focused Update on Neonatal Resuscitation: An Update to the American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care.** *Pediatrics*
Escobedo, M. B., Aziz, K., Kapadia, V. S., Lee, H. C., Niermeyer, S., Schmolzer, G. M., Szyld, E., Weiner, G. M., Wyckoff, M. H., Yamada, N. K., Zaichkin, J. G.
2019
 - **Appraisal of a scoring instrument for training and testing neonatal intubation skills** *ARCHIVES OF DISEASE IN CHILDHOOD-FETAL AND NEONATAL EDITION*
Bouwmeester, R. N., Binkhorst, M., Yamada, N. K., Geurtzen, R., van Heijst, A. F. J., Halamek, L. P., Draaisma, J. M. T., Hogeveen, M.

2019; 104 (5): F521–F527

- **The role of human factors in neonatal patient safety.** *Seminars in perinatology*
Yamada, N. K., Catchpole, K., Salas, E.
2019: 151174
- **Ergonomic Challenges Inherent in Neonatal Resuscitation.** *Children (Basel, Switzerland)*
Yamada, N. K., Fuerch, J. H., Halamek, L. P.
2019; 6 (6)
- **2019 American Heart Association Focused Update on Neonatal Resuscitation: An Update to the American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care.** *Circulation*
Escobedo, M. B., Aziz, K. n., Kapadia, V. S., Lee, H. C., Niermeyer, S. n., Schmörlzer, G. M., Szyld, E. n., Weiner, G. M., Wyckoff, M. H., Yamada, N. K., Zaichkin, J. G.
2019: CIR0000000000000729
- **Appraisal of a scoring instrument for training and testing neonatal intubation skills.** *Archives of disease in childhood. Fetal and neonatal edition*
Bouwmeester, R. N., Binkhorst, M., Yamada, N. K., Geurtzen, R., van Heijst, A. F., Halamek, L. P., Draaisma, J. M., Hogeveen, M.
2018
- **Perspectives on periviability counselling and decision-making differed between neonatologists in the United States and the Netherlands** *ACTA PAEDIATRICA*
Schrijvers, N. M., Geurtzen, R., Draaisma, J. M. T., Halamek, L. P., Yamada, N. K., Hogeveen, M.
2018; 107 (10): 1710–15
- **Optimal human and system performance during neonatal resuscitation.** *Seminars in fetal & neonatal medicine*
Yamada, N. K., Kamlin, C. O., Halamek, L. P.
2018
- **Simulation-Based Patient-Specific Multidisciplinary Team Training in Preparation for the Resuscitation and Stabilization of Conjoined Twins** *AMERICAN JOURNAL OF PERINATOLOGY*
Yamada, N. K., Fuerch, J. H., Halamek, L. P.
2017; 34 (6): 621-626
- **Impact of Standardized Communication Techniques on Errors during Simulated Neonatal Resuscitation.** *American journal of perinatology*
Yamada, N. K., Fuerch, J. H., Halamek, L. P.
2016; 33 (4): 385-392
- **Modification of the Neonatal Resuscitation Program Algorithm for Resuscitation of Conjoined Twins.** *American journal of perinatology*
Yamada, N. K., Fuerch, J. H., Halamek, L. P.
2016; 33 (4): 420-424
- **Failed endotracheal intubation and adverse outcomes among extremely low birth weight infants.** *Journal of perinatology*
Wallenstein, M. B., Birnie, K. L., Arain, Y. H., Yang, W., Yamada, N. K., Huffman, L. C., Palma, J. P., Chock, V. Y., Shaw, G. M., Stevenson, D. K.
2016; 36 (2): 112-115
- **Simulation in Paediatrics** *Manual of Simulation in Healthcare*
Yamada, N. K., Fuerch, J. H., Halamek, L. P.
edited by Riley, R.
Oxford University Press.2016; 2nd: 383–396
- **Analysis and classification of errors made by teams during neonatal resuscitation** *RESUSCITATION*
Yamada, N. K., Yaeger, K. A., Halamek, L. P.
2015; 96: 109-113
- **Analysis and classification of errors made by teams during neonatal resuscitation.** *Resuscitation*
Yamada, N. K., Yaeger, K. A., Halamek, L. P.
2015; 96: 109-13
- **Impact of a novel decision support tool on adherence to Neonatal Resuscitation Program algorithm** *RESUSCITATION*

Fuerch, J. H., Yamada, N. K., Coelho, P. R., Lee, H. C., Halamek, L. P.
2015; 88: 52-56

- **On the need for precise, concise communication during resuscitation: a proposed solution.** *journal of pediatrics*
Yamada, N. K., Halamek, L. P.
2015; 166 (1): 184-187
- **The Role of a Fetal Center in Preparing for a Conjoined Twin Delivery** *NeoReviews*
Fuerch, J. H., Yamada, N. K., Kobayashi, D., Hartman, G. E., Blumenfeld, Y. J., Hintz, S. R., Chock, V. Y.
2015; 16 (11): e617-623
- **Communication during resuscitation: Time for a change?** *RESUSCITATION*
Yamada, N. K., Halamek, L. P.
2014; 85 (12): E191-E192
- **The Neonatal Resuscitation Program: Current Recommendations and a Look at the Future** *INDIAN JOURNAL OF PEDIATRICS*
Kumar, P., Yamada, N. K., Fuerch, J. H., Halamek, L. P.
2014; 81 (5): 473-480
- **When operating is considered futile: Difficult decisions in the neonatal intensive care unit** *SURGERY*
Yamada, N. V., Kodner, I. J., Brown, D. E.
2009; 146 (1): 122-125