





Kanwaljeet S. Anand

Professor of Pediatrics (Pediatric Critical Care) and of Anesthesiology, Perioperative and Pain Medicine

Pediatrics - Critical Care

 NIH Biosketch available Online

 Curriculum Vitae available Online

 Resume available Online

CLINICAL OFFICE (PRIMARY)

- **Pediatric Intensive Care**

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Palo Alto, CA 94304

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

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Bio

BIO

Dr. Kanwaljeet Anand graduated from M.G.M. Medical College, Indore (India). As a Rhodes Scholar at University of Oxford, he received the D.Phil. degree, followed by post-doctoral fellowship at Harvard Medical School, Pediatrics residency training at Boston Children's Hospital and a Critical Care Medicine fellowship at the Massachusetts General Hospital, Boston.

His research was recognized by the Dr. Michael Blacow Award from British Paediatric Association (1986), Pediatric Resident Research Award from American Academy of Pediatrics (1992), the inaugural Young Investigator Award in Pediatric Pain from International Association for Study of Pain (IASP, 1994), the Jeffrey Lawson Award for Children's Advocacy from American Pain Society (2000), the Windermere Honorary Lectureship Award from Royal College of Paediatrics & Child Health (2004), Joan M. Cranmer "Mentor of the Year" Award (2007) from University of Arkansas, the Nils Rosén von Rosenstein Award* from the Swedish Academy of Medicine (2009), Top Mentor Award, School of Graduate Studies, University of Arkansas for Medical Sciences (2011), the 9th Annual "In Praise of Medicine" Public Address at Erasmus University (2014), the Journées Nationales de Néonatalogie 2015 Address at The Pasteur Institute (Paris, France), the Nightingale Excellence Award (2016) from Stanford Children's Healthcare, and an Honorary Doctorate from University of Örebro, Sweden (2019). Dr. Anand founded the Harmony Health Clinic, the largest charitable medical & dental clinic in Little Rock and worked to remove inter-faith conflict throughout the state of Arkansas. He received the Father Joseph Biltz Award (2007) from the National Conference for Community & Justice (NCCJ) and the Dr. Martin Luther King "Salute to Greatness" Individual Award (2008) from the Governor of Arkansas for his commitments to community service.

Dr. Anand is currently Professor of Pediatrics, Anesthesiology, Perioperative & Pain Medicine at Stanford University School of Medicine; he directs the Pain/Stress Neurobiology Lab, the Jackson Vaughan Critical Care Research Fund, and serves as Editor for the journal Pediatric Research. He is considered a world authority on pain/stress in newborns and pain management in infants.

CLINICAL FOCUS

- Pediatric Critical Care Medicine

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Pediatrics - Critical Care
- Professor - University Medical Line, Anesthesiology, Perioperative and Pain Medicine

- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Division Chief, Pediatric Critical Care, Department of Pediatrics, School of Medicine, (2015-2017)
- Director, Child Wellness Lab, Maternal & Child Health Research Institute, (2016- present)
- Co-Chair, Ideal Village Conferences at Stanford, Stanford University, (2017- present)
- Director, Jackson Vaughan Critical Care Research Fund, Critical Care Medicine Division, Department of Pediatrics, (2018- present)

HONORS AND AWARDS

- Dr. Michael Blacow Award, British Paediatric Association (1986)
- Pediatric Resident Research Award, American Academy of Pediatrics (1992)
- Young Investigator Award in Pediatric Pain, International Association for the Study of Pain, Special Interest Group for Pain in Children (1994)
- Jeffrey Lawson Award for Advocacy in Children's Pain Relief, American Pain Society (2000)
- Morris & Hettie Oakley Endowed Chair for Critical Care Medicine, University of Arkansas for Medical Sciences (2001)
- Joan M. Cranmer "Mentor of the Year" Award, Department of Pediatrics, University of Arkansas for Medical Sciences (2007)
- "Salute to Greatness" Individual Award, Dr. Martin Luther King Commission, State of Arkansas (2008)
- The Nils Rosén von Rosenstein Award, Swedish Academy of Medicine & Swedish Paediatric Society (2009)
- St. Jude Chair of Pediatric Critical Care Medicine, University of Tennessee Health Science Center and St. Jude Children's Research Hospital (2010)
- 9th Annual "In Praise of Medicine" Public Address, Erasmus University 100th Anniversary Celebrations (2013)
- Journées Nationales de Néonatalogie Keynote Address, The Pasteur Institute, Paris, France (2015)
- Nightingale Excellence Award for Physicians, Stanford Children's Healthcare System (2016)
- Chief Guest, Inaugural Function of the 37th Annual Meeting of National Neonatology Forum, National Neonatology Forum, India (2017)
- Co-Chair, Annual International Conferences on the Ideal Village Program, Stanford University School of Medicine (2017, 2018, 2019)
- Chair, SBIB-H82 Study Section, Clinical Fetal & Pediatric Applications, NIH/Center for Scientific Review (2018)
- Honorary Doctorate, Doctor of Medicine, Faculty of Medicine and Health, University of Örebro, Örebro, Sweden (2019)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Scientific Advisory Board, Sadhguru Center for a Conscious Planet (2021 - present)
- Member, Scientific Advisory Board, Riaan Research Initiative (2021 - present)
- Member, Trust Advisory Committee, NAS Monitoring Trust (2021 - present)
- Advisor, Board of Trustees, The Sikh Foundation International (2016 - present)
- Chair, Selection Committee, Distinguished Investigator Award in Pediatric Pain, International Association for the Study of Pain (2014 - 2015)
- Chair, Promotion & Tenure Committee, Department of Pediatrics, University of Tennessee Health Science Center (2013 - 2014)
- Dean's Faculty Advisory Committee, College of Medicine, University of Tennessee Health Science Center (2013 - 2014)
- Member, Executive Council, Special Interest Group on Pain in Children, International Association for the Study of Pain (2011 - 2014)
- Chair, Selection Committee, Distinguished Investigator Award in Pediatric Pain, International Association for the Study of Pain (2011 - 2012)
- Board Member, Critical Care Educational & Research Foundation, Society for Critical Care Medicine (2008 - 2010)
- Founder & President, Board of Directors, Harmony Health Clinic, Little Rock AR (2008 - 2010)
- Expert Consultant, Institute of Laboratory Animal Research, The National Academy of Sciences (2008 - 2009)

- Member, Sub-Board of Critical Care Medicine, American Board of Pediatrics (2007 - 2013)
- Chair, Research Committee, Society for Critical Care Medicine (2006 - 2008)
- Chair, Special Task Force for Anesthesia & Analgesia Drugs, National Institute for Child Health & Human Development (2006 - 2008)
- Member, ALSDAC Advisory Committee of the FDA, U.S. Public Health Service, Department of Health & Human Services (2006 - 2008)
- Chair, Neonatal Pain Task Force, FDA/NICHD Newborn Drug Development Initiative (2003 - 2005)

PROFESSIONAL EDUCATION

- Board Certification: Pediatric Critical Care Medicine, American Board of Pediatrics (1994)
- Fellowship: Massachusetts General Hospital Pediatric Critical Care Fellowship (1993) MA
- Residency: Boston Childrens Hospital Pediatric Residency (1991) MA
- Internship: Boston Childrens Hospital Pediatric Residency (1989) MA
- Fellowship: Boston Children's Hospital Dept of Anesthesiology (1988) MA
- Medical Education: Mahatma Gandhi Memorial Medical College (1981) India

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Anand is a translational clinical researcher who pioneered research on the endocrine-metabolic stress responses of infants undergoing surgery and developed the first-ever scientific rationale for pain perception in early life. This provided a framework for newer methods of pain assessment, numerous clinical trials of analgesia/anesthesia in newborns, infants and older children. His research focus over the past 30+ years has contributed fundamental knowledge about pediatric pain/stress, long-term effects of pain in early life, management of pain, mechanisms for opioid tolerance and withdrawal. Current projects in his laboratory are focused on developing biomarkers for repetitive pain/stress in critically ill children and the mechanisms underlying sedative/anesthetic neurotoxicity in the immature brain. He designed and directed many randomized clinical trials (RCT), including the largest-ever pediatric analgesia trial studying morphine therapy in ventilated preterm neonates. He has extensive experience in clinical and translational research from participating in collaborative networks funded by NIMH, NINDS, or NICHD, a track-record of excellent collaboration across multiple disciplines, while achieving success with large research teams like the Collaborative Pediatric Critical Care Research Network (CPCCRN). He played a leadership roles in CANDLE (Condition Affecting Neuro-Development & Learning in Early infancy) and other activities of the Urban Child Institute and UT Neuroscience Institute. More recently, he led the NeoOpioid Consortium funded by the European Commission, which collected data from 243 NICUs in 18 European countries.

CLINICAL TRIALS

- Electronic Application of a Severe Sepsis Screening Tool and Management Bundle, Recruiting
- Assessment of Pain in Newborns and Older Infants (Infant Pain Assessment Study =, Not Recruiting)

PROJECTS

- Measuring Childhood Wellness in Preschool Children - Stanford University School of Medicine (October 30, 2017 - June 1, 2023)
- Reducing the Effects of Chronic Stress, Discrimination, and Poverty on Health Outcomes in Adolescents - Stanford University School of Medicine (October 10, 2021 - October 31, 2022)

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Anjali Gupta

Doctoral Dissertation Reader (NonAC)

Jitka Hiscox

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Pediatric Critical Care Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **Stress Symptoms Among Children and Their Parents After ICU Hospitalization.** *Journal of intensive care medicine*
Daughtrey, H. R., Lee, J., Boothroyd, D. B., Burnside, G. M., Shaw, R. J., Anand, K. J., Sanders, L. M.
2023; 8850666231201836
- **Linear hair growth rates in preschool children.** *Pediatric research*
Ruiz, M. O., Rovnaghi, C. R., Tembulkar, S., Qin, F., Truong, L., Shen, S., Anand, K. J.
2023
- **Prevalence of burnout and its relation to the neuroendocrine system among pediatric residents during the early Covid-19 pandemic: A pilot feasibility study.** *Comprehensive psychoneuroendocrinology*
Tawfik, D. S., Rovnaghi, C., Profit, J., Cornell, T. T., Anand, K. J.
2023; 14: 100174
- **Performance effectiveness of vital parameter combinations for early warning of sepsis-an exhaustive study using machine learning** *JAMIA OPEN*
Rangan, E., Pathinarupothi, R., Anand, K. S., Snyder, M. P.
2022; 5 (4): ooac080
- **Attentional Generative Multimodal Network for Neonatal Postoperative Pain Estimation.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*
Salekin, M. S., Zamzmi, G., Goldgof, D., Mouton, P. R., Anand, K. J., Ashmeade, T., Prescott, S., Huang, Y., Sun, Y.
2022; 13433: 749-759
- **Can Translational Social Neuroscience Research offer Insights to Mitigate Structural Racism in America?** *Biological psychiatry. Cognitive neuroscience and neuroimaging*
Singh, M. K., Nimarko, A., Bruno, J., Anand, K. J., Singh, S. P.
2022
- **Attentional Generative Multimodal Network for Neonatal Postoperative Pain Estimation**
Salekin, S., Zamzmi, G., Goldgof, D., Mouton, P. R., Anand, K. S., Ashmeade, T., Prescott, S., Huang, Y., Sun, Y., Wang, L., Dou, Q., Fletcher, P. T., Speidel, et al
SPRINGER INTERNATIONAL PUBLISHING AG.2022: 749-759
- **The social ecology of childhood and early life adversity.** *Pediatric research*
Lopez, M., Ruiz, M. O., Rovnaghi, C. R., Tam, G. K., Hiscox, J., Gotlib, I. H., Barr, D. A., Carrion, V. G., Anand, K. J.
2021
- **Longitudinal Trajectories of Hair Cortisol: Hypothalamic-Pituitary-Adrenal Axis Dysfunction in Early Childhood.** *Frontiers in pediatrics*
Rovnaghi, C. R., Rigdon, J., Roue, J., Ruiz, M. O., Carrion, V. G., Anand, K. J.
2021; 9: 740343
- **Neonatal opioids and preschool outcomes.** *Pediatric research*
Anand, K. J.
2020
- **The newborn infant parasympathetic evaluation index for acute procedural pain assessment in preterm infants.** *Pediatric research*
Gendras, J., Lavenant, P., Sicard-Cras, I., Consigny, M., Misery, L., Anand, K. J., Sizun, J., Roue, J.
2020
- **Demographic and psychosocial factors associated with hair cortisol concentrations in preschool children.** *Pediatric research*
Anand, K. J., Rovnaghi, C. R., Rigdon, J., Qin, F., Tembulkar, S., Murphy, L. E., Barr, D. A., Gotlib, I. H., Tylavsky, F. A.
2019

- **Measuring socioeconomic adversity in early life** *ACTA PAEDIATRICA*
Anand, K. S., Rigdon, J., Rovnaghi, C. R., Qin, F., Tembulkar, S., Bush, N., LeWinn, K., Tylavsky, F. A., Davis, R., Barr, D. A., Gotlib, I. H.
2019; 108 (7): 1267–77
- **Measuring socioeconomic adversity in early life.** *Acta paediatrica (Oslo, Norway : 1992)*
Anand, K. J., Rigdon, J., Rovnaghi, C. R., Qin, F., Tembulkar, S., Bush, N., LeWinn, K., Tylavsky, F. A., Davis, R., Barr, D. A., Gotlib, I. H.
2019
- **Discovering Pain in Newborn Infants.** *Anesthesiology*
Anand, K. J.
2019
- **Toward the elimination of bias in Pediatric Research.** *Pediatric research*
Bearer, C. n., Agostoni, C. n., Anand, K. J., Ambalavanan, N. n., Bhandari, V. n., Bliss, J. M., Bloomfield, F. n., Bonifacio, S. L., Buhimschi, I. n., Cilio, M. R., Coppes, M. n., Czinn, S. J., El-Khuffash, et al
2019
- **Maternal experiences of trauma and hair cortisol in early childhood in a prospective cohort** *PSYCHONEUROENDOCRINOLOGY*
Sloven, N., Roberts, A. L., LeWinn, K. Z., Bush, N. R., Rovnaghi, C. R., Tylavsky, F., Anand, K. S.
2018; 98: 168–76
- **Pathways from adverse childhood experiences to nervous system dysregulation.** (<https://www.internalmedicinereview.org/index.php/imr/article/download/773/pdf>). *Internal Medicine Review*
Rovnaghi, C. R., Anand, K. J.
2018; 4 (10): 1-20
- **Clinical Profile Associated with Adverse Childhood Experiences: The Advent of Nervous System Dysregulation.** *Children (Basel, Switzerland)*
Elbers, J., Rovnaghi, C. R., Golianu, B., Anand, K. J.
2017; 4 (11)
- **Clinical Profile Associated with Adverse Childhood Experiences: The Advent of Nervous System Dysregulation** *CHILDREN-BASEL*
Elbers, J., Rovnaghi, C. R., Golianu, B., Anand, K. S.
2017; 4 (11)
- **Defining pain in newborns: Need for a uniform taxonomy?** *Acta paediatrica (Oslo, Norway : 1992)*
Anand, K. J.
2017
- **Assessment of Continuous Pain in Newborns admitted to NICUs in 18 European Countries.** *Acta paediatrica*
Anand, K. J., Eriksson, M., Boyle, E. M., Avila-Alvarez, A., Andersen, R. D., Sarafidis, K., Polkki, T., Matos, C., Lago, P., Papadouri, T., Attard-Montalto, S., Ilmoja, M., Simons, et al
2017
- **Does noninvasive electrical stimulation of acupuncture points reduce heelstick pain in neonates?** *Acta paediatrica*
Mitchell, A. J., Hall, R. W., Golianu, B., Yates, C., Williams, D. K., Chang, J., Anand, K. J.
2016
- **Epidemiology and neonatal pain management of heelsticks in intensive care units: EPIPPAIN 2, a prospective observational study.** *International journal of nursing studies*
Courtois, E., Droutman, S., Magny, J. F., Merchaoui, Z., Durrmeyer, X., Roussel, C., Biran, V., Eleni, S., Vottier, G., Renolleau, S., Desfrere, L., Castela, F., Boimond, et al
2016; 59: 79-88
- **Revisiting a dilemma: repetitive pain vs. opioid exposures?** *ACTA PAEDIATRICA*
Anand, K. J.
2016; 105 (7): 736-737
- **The validity and reliability of the EValuation of INtervention Scale: preliminary report** *ACTA PAEDIATRICA*
Warren, I., Hicks, B., Kleberg, A., Eliahoo, J., Anand, K. J., Hickson, M.
2016; 105 (6): 618-622

- **Ketamine exposure during embryogenesis inhibits cellular proliferation in rat fetal cortical neurogenic regions** *ACTA ANAESTHESIOLOGICA SCANDINAVICA*
Dong, C., Rovnaghi, C. R., Anand, K. J.
2016; 60 (5): 579-587
- **Regulation of inflammatory biomarkers by intravenous methylprednisolone in pediatric ARDS patients: Results from a double-blind, placebo-controlled randomized pilot trial** *CYTOKINE*
Schwingshackl, A., Kimura, D., Rovnaghi, C. R., Saravia, J. S., Cormier, S. A., Teng, B., West, A. N., Meduri, U. G., Anand, K. J.
2016; 77: 63-71
- **Plasma Biomarker Analysis in Pediatric ARDS: Generating Future Framework from a Pilot Randomized Control Trial of Methylprednisolone: A Framework for Identifying Plasma Biomarkers Related to Clinical Outcomes in Pediatric ARDS.** *Frontiers in pediatrics*
Kimura, D., Saravia, J., Rovnaghi, C. R., Meduri, G. U., Schwingshackl, A., Cormier, S. A., Anand, K. J.
2016; 4: 31-?
- **Research as a Standard of Care in the PICU** *PEDIATRIC CRITICAL CARE MEDICINE*
Zimmerman, J. J., Anand, K. J., Meert, K. L., Willson, D. F., Newth, C. J., Harrison, R., Carcillo, J. A., Berger, J., Jenkins, T. L., Nicholson, C., Dean, J. M.
2016; 17 (1): E13-E21
- **Methodological Considerations for Hair Cortisol Measurements in Children** *THERAPEUTIC DRUG MONITORING*
Slominski, R., Rovnaghi, C. R., Anand, K. J.
2015; 37 (6): 812-820
- **Long-Acting Opioids for Treating Neonatal Abstinence Syndrome A High Price for a Short Stay?** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Peltz, G., Anand, K. J.
2015; 314 (19): 2023-2024
- **Corticosteroids in pediatric ARDS: all cards on the table** *INTENSIVE CARE MEDICINE*
Schwingshackl, A., Meduri, G. U., Kimura, D., Cormier, S. A., Anand, K. J.
2015; 41 (11): 2036-2037
- **Sedation and analgesia practices in neonatal intensive care units (EUROPAIN): results from a prospective cohort study** *LANCET RESPIRATORY MEDICINE*
Carbajal, R., Eriksson, M., Courtois, E., Boyle, E., Avila-Alvarez, A., Andersen, R. D., Sarafidis, K., Polkki, T., Matos, C., Lago, P., Papadouri, T., Montalto, S. A., Ilmoja, et al
2015; 3 (10): 796-812
- **Pediatric Intensive Care Unit Mortality Among Latino Children Before and After a Multilevel Health Care Delivery Intervention** *JAMA PEDIATRICS*
Anand, K. J., Sepanski, R. J., Giles, K., Shah, S. H., Juarez, P. D.
2015; 169 (4): 383-390
- **Double-blind, placebo-controlled pilot randomized trial of methylprednisolone infusion in pediatric acute respiratory distress syndrome.** *Pediatric critical care medicine*
Drago, B. B., Kimura, D., Rovnaghi, C. R., Schwingshackl, A., Rayburn, M., Meduri, G. U., Anand, K. J.
2015; 16 (3): e74-81
- **Clinical risk factors for central line-associated venous thrombosis in children.** *Frontiers in pediatrics*
Shah, S. H., West, A. N., Sepanski, R. J., Hannah, D., May, W. N., Anand, K. J.
2015; 3: 35-?
- **Pain Management in Newborns** *CLINICS IN PERINATOLOGY*
Hall, R. W., Anand, K. J.
2014; 41 (4): 895-?
- **Chronic Pain in the Newborn Toward a Definition** *CLINICAL JOURNAL OF PAIN*
van Ganzewinkel, C., Anand, K. J., Kramer, B. W., Andriessen, P.
2014; 30 (11): 970-977
- **Ketamine Affects the Neurogenesis of Rat Fetal Neural Stem Progenitor Cells via the PI3K/Akt-p27 Signaling Pathway** *BIRTH DEFECTS RESEARCH PART B-DEVELOPMENTAL AND REPRODUCTIVE TOXICOLOGY*

- Dong, C., Rovnaghi, C. R., Anand, K. J.
2014; 101 (5): 355-363
- **A Single Nucleotide Polymorphism in the Corticotropin Receptor Gene Is Associated With a Blunted Cortisol Response During Pediatric Critical Illness** *PEDIATRIC CRITICAL CARE MEDICINE*
Jardine, D., Emond, M., Meert, K. L., Harrison, R., Carcillo, J. A., Anand, K. J., Berger, J., Newth, C. J., Willson, D. F., Nicholson, C., Dean, J. M., Zimmerman, J. J.
2014; 15 (8): 698-705
 - **Pediatric critical care: grand challenges for a glowing future.** *Frontiers in pediatrics*
Anand, K. J.
2014; 2: 35-?
 - **Eight Years Later, Are We Still Hurting Newborn Infants?** *NEONATOLOGY*
Roofthoof, D. W., Simons, S. H., Anand, K. J., Tibboel, D., van Dijk, M.
2014; 105 (3): 218-226
 - **Early Adversity, Socioemotional Development, and Stress in Urban 1-Year-Old Children** *JOURNAL OF PEDIATRICS*
Palmer, F. B., Anand, K. J., Graff, J. C., Murphy, L. E., Qu, Y., Voelgyi, E., Rovnaghi, C. R., Moore, A., Tran, Q. T., Tylavsky, F. A.
2013; 163 (6): 1733-U291
 - **Pain Panacea for Opiophobia in Infants?** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Anand, K. J.
2013; 309 (2): 183-184
 - **A comparison of critical care research funding and the financial burden of critical illness in the United States** *CRITICAL CARE MEDICINE*
Coopersmith, C. M., Wunsch, H., Fink, M. P., Linde-Zwirble, W. T., Olsen, K. M., Sommers, M. S., Anand, K. J., Tchorz, K. M., Angus, D. C., Deutschman, C. S.
2012; 40 (4): 1072-1079
 - **Pediatric Analgesic Clinical Trial Designs, Measures, and Extrapolation: Report of an FDA Scientific Workshop** *PEDIATRICS*
Berde, C. B., Walco, G. A., Krane, E. J., Anand, K. J., Aranda, J. V., Craig, K. D., Dampier, C. D., Finkel, J. C., Grabis, M., Johnston, C., Lantos, J., Lebel, A., Maxwell, et al
2012; 129 (2): 354-364
 - **Love, pain, and intensive care** *PEDIATRICS*
Anand, K. S., Hall, R. W.
2008; 121 (4): 825-827
 - **Pain assessment in preterm neonates** *PEDIATRICS*
Anand, K. S.
2007; 119 (3): 605-607
 - **Summary proceedings from the neonatal pain-control group**
Anand, K. J., Aranda, J. V., Berde, C. B., Buckman, S., Capparelli, E. V., Carlo, W., Hummel, P., Johnston, C. C., Lantos, J., Tutag-Lehr, Lynn, A. M., Maxwell, L. G., Oberlander, T. F., et al
AMER ACAD PEDIATRICS.2006: S9-S22
 - **Gastric suction at birth: Not an innocent bystander** *JOURNAL OF PEDIATRICS*
Anand, K. J., Jacobson, B., Hall, R. W.
2004; 145 (5): 714
 - **Effects of morphine analgesia in ventilated preterm neonates: primary outcomes from the NEOPAIN randomised trial** *LANCET*
Anand, K. J., Hall, R. W., Desai, N., Shephard, B., Bergqvist, L. L., Young, T. E., Boyle, E. M., Carbajal, R., Bhutani, V. K., Moore, M. B., Kronsberg, S. S., Barton, B. A.
2004; 363 (9422): 1673-1682
 - **Opioid receptor desensitization contributes to thernal hyperalgesia in infant rats** *EUROPEAN JOURNAL OF PHARMACOLOGY*
Liu, J. G., Rovnaghi, C. R., Garg, S., Anand, K. J.
2004; 491 (2-3): 127-136
 - **Gastric suction at birth associated with long-term risk for functional intestinal disorders in later life** *JOURNAL OF PEDIATRICS*

- Anand, K. J., Runeson, B., Jacobson, B.
2004; 144 (4): 449-454
- **Cognitive and behavioral outcomes of school-aged children who were born preterm - A meta-analysis** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Bhutta, A. T., Cleves, M. A., Casey, P. H., Cradock, M. M., Anand, K. J.
2002; 288 (6): 728-737
 - **Consensus statement for the prevention and management of pain in the newborn** *ARCHIVES OF PEDIATRICS & ADOLESCENT MEDICINE*
Anand, K. J., Int Evidence-based Grp Neonatal Pa
2001; 155 (2): 173-180
 - **Pain, plasticity, and premature birth: a prescription for permanent suffering?** *NATURE MEDICINE*
Anand, K. J.
2000; 6 (9): 971-973
 - **Can adverse neonatal experiences alter brain development and subsequent behavior?** *BIOLOGY OF THE NEONATE*
Anand, K. J., Scalzo, F. M.
2000; 77 (2): 69-82
 - **New perspectives on the definition of pain** *PAIN*
Anand, K. J., Craig, K. D.
1996; 67 (1): 3-6
 - **PAIN IN THE NEONATE AND FETUS** *NEW ENGLAND JOURNAL OF MEDICINE*
SCHECHTER, N. L., BECK, A. L., WEISMAN, S., ROSENBLUM, M.
1988; 318 (21): 1398
 - **An Evidence-Based Discussion of Fetal Pain and Stress.** *Neonatology*
Mohamed, S. H., Reissland, N., Anand, K. J.
2024: 1-7
 - **Incidence of mental health conditions following pediatric hospital admissions: analysis of a national database.** *Frontiers in pediatrics*
Daughtrey, H. R., Ruiz, M. O., Felix, N., Saynina, O., Sanders, L. M., Anand, K. J.
2024; 12: 1344870
 - **Informative Artifacts in AI-Assisted Care.** *The New England journal of medicine*
Azizi, Z., Vedelli, J. K., Anand, K. J.
2023; 389 (22)
 - **Bibliometric analysis with reference publication year spectroscopy showed how key programmes drove developmental care in newborn infants.** *Acta paediatrica (Oslo, Norway : 1992)*
Smith, M., Marx, W., Anand, K. S., Haunschild, R., Bornmann, L., Sizun, J., Roue, J. M.
2023
 - **Linear hair growth rates in preschool children** *PEDIATRIC RESEARCH*
Ruiz, M. O., Rovnaghi, C. R., Tembulkar, S., Qin, F., Truong, L., Shen, S., Anand, K. S.
2023
 - **Missing Race and Ethnicity Data in Pediatric Studies** *JAMA Pediatr*
Vedelli, J. K., Azizi, Z., Anand, K. J.
2023
 - **What is the definition of acute episodic and chronic pain in critically ill neonates and infants? A global, four-stage consensus and validation study.** *BMJ open*
Ilhan, E., Pacey, V., Brown, L., Spence, K., van Ganzewinkel, C., Pillai Riddell, R., Campbell-Yeo, M., Stevens, B. J., Eriksson, M., Shah, V., Anand, K. J., Bellieni, C., Daly, et al
2022; 12 (3): e055255
 - **Hyperoxemia among Pediatric Intensive Care Unit Patients Receiving Oxygen Therapy** *JOURNAL OF PEDIATRIC INTENSIVE CARE*
Fayazi, A. R., Sesia, M., Anand, K. S.

2021

- **Using sensor-fusion and machine-learning algorithms to assess acute pain in non-verbal infants: a study protocol.** *BMJ open*
Roue, J., Morag, I., Haddad, W. M., Gholami, B., Anand, K. J.
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