

CURRICULUM VITAE
Steven Gerard Kernie, M.D.
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Date of Preparation: June 18, 2024

Personal Data:

Name Steven Gerard Kernie
Birthplace Spokane, Washington
Citizenship USA

Work Experience

Current position

1/2024 – Present	NewYork-Presbyterian Hospital Vice President of Operations Morgan Stanley Children’s Hospital Columbia University Irving Medical Center	New York, NY
6/2021 – 12/2023	NewYork-Presbyterian Hospital Vice President and Chief Medical Officer Women’s and Children’s services Columbia University Irving Medical Center Weill Cornell Medicine	New York, NY

Academic appointments

6/2021– Present	Columbia University Vagelos College of Physicians and Surgeons Special Lecturer Department of Pediatrics	New York, NY
5/2020 – 6/2021	Columbia University Vagelos College of Physicians and Surgeons Professor of Pediatrics (in Neurology) Chief, Division of Pediatric Critical Care and Hospital Medicine	New York, NY
10/2018 – 6/2021	Columbia University Vagelos College of Physicians and Surgeons Vice Chair for Clinical Affairs Department of Pediatrics	New York, NY

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10/2020 – 3/2021	Columbia University Vagelos College of Physicians and Surgeons Professor of Pediatrics (in Neurology) Chief (Interim), Division of Pediatric Cardiology	New York, NY
11/2016 – 5/2020	Columbia University Vagelos College of Physicians and Surgeons Professor of Pediatrics (in Neurology) Chief, Division of Pediatric Critical Care Medicine	New York, NY
06/2011 – 10/2016	Columbia University College of Physicians and Surgeons Associate Professor of Pediatrics (in Neurology) Chief, Division of Pediatric Critical Care Medicine	New York, NY
09/2008 – 06/2011	UT Southwestern Medical Center at Dallas Division of Applied Science Biomedical Engineering Program Associate Professor	Dallas, TX
09/2007 – 06/2011	UT Southwestern Medical Center at Dallas Departments of Pediatrics and Developmental Biology Associate Professor	Dallas, TX
09/2007 – 06/2011	UT Southwestern Graduate School of Biomedical Sciences Division of Basic Science Integrative Biology Program Associate Professor	Dallas, TX
09/2000 – 06/2011	The University of Texas at Dallas School of Behavioral and Brain Sciences Adjunct Assistant Professor of Cognition and Neuroscience	Dallas, TX
09/2003 – 08/2007	UT Southwestern Graduate School of Biomedical Sciences Division of Basic Science Integrative Biology Program Assistant Professor	Dallas, TX
09/2002 – 08/2007	UT Southwestern Medical Center at Dallas Center for Developmental Biology Assistant Professor	Dallas, TX
07/1999 – 08/2007	UT Southwestern Medical Center at Dallas Department of Pediatrics Division of Critical Medicine Assistant Professor	Dallas, TX

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06/1996 – 07/1999	UT Southwestern Medical Center at Dallas Department of Pediatrics Division of Critical Medicine Assistant Instructor	Dallas, TX
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Hospital Appointments

05/2020 – 06/2021	NewYork-Presbyterian, Morgan Stanley Children’s Hospital Chief of Critical Care and Hospital Medicine Services 41 total ICU beds (3 services), 11-bed progressive care unit (1 service), 26-bed floor service (2 services)	New York, NY
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06/2011 – 05/2020	NewYork-Presbyterian, Morgan Stanley Children’s Hospital Chief of Critical Care Services 41-beds total, three specialized services: cardiac critical care, neurocritical care, general critical care	New York, NY
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06/2011 – Present	NewYork-Presbyterian, Morgan Stanley Children’s Hospital Assistant Attending Pediatrician	New York, NY
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05/2010 – 06/2011	Children’s Medical Center Dallas Medical Director, Research Administration	Dallas, TX
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11/2004 – 06/2011	Children’s Medical Center Dallas Director, Perot Family Center for Brain and Nerve Injuries	Dallas, TX
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07/1999 – 06/2011	Children’s Medical Center Dallas Pediatric Intensive Care Unit Attending Physician	Dallas, TX
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Education

Medical School

09/1988 – 06/1992	University of Washington School of Medicine M.D., 1992	Seattle, WA
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Undergraduate

09/1984 – 06/1988	Stanford University A.B., Human Biology, 1988	Stanford, CA
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Training

Post-Doctoral

Training

01/1997 – 07/1999	UT Southwestern Medical Center at Dallas Center for Developmental Biology (Mentor – Luis F. Parada, Ph.D.) Research Fellow	Dallas, TX
07/1996 – 06/1999	Children’s Medical Center Dallas, UT Southwestern Medical Center Dallas Pediatric Critical Care Fellowship	Dallas, TX
07/1995 – 06/1996	Children’s Medical Center Dallas, UT Southwestern Medical Center Dallas Pediatric Chief Resident	Dallas, TX
07/1992 – 06/1995	Children’s Medical Center Dallas, UT Southwestern Medical Center Dallas Pediatric Intern and Resident	Dallas, TX

Licensure and Board Certifications

Licensure

05/2011 – Present	The University of the State of New York Education Department, Office of the Professions	Active
11/1995 – 11/2011	Texas State Board of Medical Examiners	Inactive

Board Qualifications

10/2000	American Board of Pediatrics, Board Certified (re-certification, 2007, 2017) Pediatric Critical Care
10/1996	American Board of Pediatrics, Board Certified (re-certification, 2002) General Pediatrics

Honors and Awards

2018	Scholar, Association of Medical School Pediatric Department Chairs' Pediatric Leadership Development Program, 2019-2020 term
2015	Elected Member, American Pediatric Society
2004	Annual Scientific Award, Society for Critical Care Medicine, 33 rd Annual Congress, Neuroscience Award Awarded for top neuroscience abstract
2003	Annual Scientific Award, Society for Critical Care Medicine, 32 nd Annual Congress, Neuroscience Award Awarded for top neuroscience abstract
2002	Young Investigator Fellow Award, Society for Critical Care Medicine, 31 st Annual Congress One award given annually for best research presentation from recently graduated critical care fellow
2000	President's Research Council Distinguished Young Researcher Award, The University of Texas Southwestern Medical Center at Dallas One of two awards given annually for top newly recruited investigators

Academic Service

Departmental and University Committees

Columbia University Irving Medical Center

2018 – 2021	Member, Compensation Committee, Department of Pediatrics
2018 – 2021	Member, Faculty of Medicine Committee on Appointments and Promotions, CUMC
2015	Member, Internal Review Committee for Pew Scholars Program in Biomedical Sciences
2014 – 2019	Organizer, Pediatric Research Grand Rounds
2014 – 2017	Member, Research Executive Committee, Department of Pediatrics
2013 – Present	Member, Board of Undergraduate Research Advisors, Columbia University
2012 – Present	Affiliate Member, Columbia University Stem Cell Initiative
2011 – 2021	Member, Executive Committee, Department of Pediatrics

Search Committees

Pediatrics

2020	Chief, Division of Pediatric Gastroenterology (Diversity Advocate)
2020	Chief, Division of Pediatric Cardiology (Diversity Advocate)
2018 – 2019	Chief, Division of Neonatology (Chair of Search Committee)
2017 – 2018	Chief, Division of Hematology, Oncology, and Stem Cell Transplant
2017	Chief, Division of Child Neurology
2017	Assistant Professor of Pediatrics and Genetics and Development
2014 – 2015	Chief, Division of Pediatric Infectious Diseases
2012 – 2013	Chief, Division of Pediatric Cardiology

New York-Presbyterian Morgan Stanley Children's Hospital

2021 – present Member, Executive Committee, MSCH/Sloane Hospital Expansion
2020 – 2021 Co-Lead, Executive Committee, COVID restart
2018 – 2020 Member, MSCH length of stay steering committee

Children's Medical Center Dallas

2002 – 2011 Member, Children's Clinical Research Advisory Committee
2005 – 2010 Member, Graduate Medical Education Committee
2002 – 2004 Program Director, Making a World of Difference Critical Care Lecture Series

The University of Texas Southwestern Medical Center at Dallas

2010 – 2011 Co-director, Introduction to Embryology, first-year medical school core course
2010 – 2011 Member, Executive Committee, Institutional Review Board
2009 – 2011 Interviewer for medical school admissions, UTSW
2005 – 2011 Organizer, Stem Cells in the Nervous System, Works in progress
2003 – 2011 Integrative Biology, Graduate Student Qualifying Committee, UTSW
2004 – 2011 Member, Steering Committee, T32 Training Program in Burns, Trauma, and Critical Care (F. Nwariaku, Principal Investigator)
2004 – 2007 Organizer, Neural Injury and Neuroplasticity, Works in progress
2003 Co-Chair, Judith and Charles Ginsburg Endowed Chair Fundraising Committee

The University of Texas Southwestern Medical Center at Dallas, Department of Pediatrics

2002 – 2011 Fourth-year medical student advisor for Pediatrics
2002 – 2010 Director, Pediatric Critical Care Fellowship Program
2004 – 2007 Member, Pediatric Intern Evaluation Committee
2003 Chair, Residency Review Committee, Pediatrics
2003 Pediatric Intern Advisor

Other Professional Activities

Editorial Review Activities

Ad hoc Reviewer

Annals of Neurology/ Applied Immunohistochemistry and Molecular Morphology (AIMM)/ Behavioral Brain Research/ Biological Psychiatry/ BMC Neuroscience/ Brain Research/ Cell Death and Differentiation/ Cerebral Cortex/ Current Neuropharmacology/ Development/ Developmental Neuroscience/ Early Human Development/ European Journal of Neuroscience/ Experimental Neurology/ Frontiers in Neuroscience/ Genesis/ Hippocampus/ The Journal of Biological Chemistry/ The Journal of Cerebral Blood Flow and Metabolism/ The Journal of Clinical Investigation Insights/ The Journal of Neurochemistry/ The Journal of Neuroscience/ The Journal of Neuroscience Research/ The Journal of Neurotrauma/ The Journal of Pediatrics/ Nature Communications/ Nature Methods/ Neurobiology of Disease/ Neuroscience Letters/ Neurotrauma Reports/ New England Journal of Medicine/ Pediatrics/ Pediatric Critical Care Medicine/ Pediatric Nephrology/ Physiological Genomics/ PLoS ONE/ Progress

in Neurobiology/ The Pediatric Infectious Disease Journal/ Regulatory Peptides/ Stem Cells/ Stem Cell Reports

Research Review Activities

NIH Study Section Membership

2022 – 2024	Chartered member, NIH, CSR, Brain Injury and Neurovascular Pathologies, Brain Injury and Neurovascular Pathologies
2020	Guest member, NIH, NICHD, Special Emphasis Panel; Collaborative Pediatric Critical Care Research Network
2020	Guest member, NIH, CSR, Brain Injury and Neurovascular Pathologies
2020	Guest member, NIH, CSR, Special Emphasis Panel: Pioneer Award Review
2019	Guest member, NIH, CSR, Special Emphasis Panel, PAR Panel: Alzheimer's Disease and Its Related Dementias
2019	Guest member, NIH, CSR, Special Emphasis Panel, Brain Disorders and Clinical Neuroscience
2016	Guest member and Chair, NIH, CSR, Special Emphasis Panel, Topics in Addictions and Neurogenesis
2015	Guest member, NIH, CSR, Molecular Neurogenetics, MNG
2013	Guest member, NIH, CSR, Special Emphasis Panel, Drug Discovery for the Nervous System
2011 – 2013	Guest member, NIH, NCI, Special Emphasis Panel, Pediatric Loan Repayment
2009 – 2013	Permanent member, NIH, CSR, Molecular Neurogenetics, MNG
2008 – 2009	Guest member, NIH, CSR, Molecular Neurogenetics, MNG
2007	Guest member, NIH, CSR, Neurogenesis and Cell Fate, MDCN
2006 – 2007	Guest member, NIH, CSR, Neurogenetics and Neuroimaging, MDCN-K

Other Reviewer Roles

2017 – 2021	Member, Irving Institute Study Section (CUIMC)
2011 – 2021	Member, The New Jersey Commission on Brain Injury Research (NJCBIR)
2006 – 2021	Member, The New Jersey Commission on Spinal Cord Research (NJCSCR)
2020	Reviewer, Brain Research UK
2011	Reviewer, The Netherlands Organization for Health Research and Development
2009 – 2011	Chair, Children's Clinical Research Advisory Committee (CCRAC, Children's Medical Center, Dallas)
2002 – 2011	Member, Children's Clinical Research Advisory Committee (CCRAC, Children's Medical Center, Dallas)
2008, 2010	Reviewer, National Science Foundation, Faculty Early Career Development Program
2008	Reviewer, Sigma Delta Epsilon/Graduate Women in Science Fellowship
2007	Reviewer, Department of Defense, Traumatic Brain Injury Research Program
2005	Reviewer, Biomedical Research Council (BMRC-Singapore)

Professional Organizations and Societies

2015 – Present	Elected Member, American Pediatric Society
2006 – 2010	Fellow, American Academy of Pediatrics
2004 – 2022	Elected Member, Society for Pediatric Research

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2003 – 2010	Member, National Neurotrauma Society
2001 – 2021	Member, Society for Neuroscience
1999 – Present	Member, Society for Critical Care Medicine

Other Professional Activities

2014 – 2015	Consultant, NeoStem, Inc., New York, New York
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Fellowship and Grant Support

Current

2R01 NS095803 7/01/2022 – 6/30/2027

The Role of ApoE in Injury-Induced Neurogenesis

NIH, NINDS

Principal Investigator: S. Kernie

The purpose of this proposal is to determine how ApoE regulates injury-induced neurogenesis using mouse conditional knockout and human-specific isoform strategies.

\$2,057,874 total costs

Completed

7/01/2017 – 6/30/2023

Reconstructing Concussion

Paul Allen Foundation

Principal Investigator: D. Meaney, University of Pennsylvania, Role: Co-I, S. Kernie

The purpose of this proposal is to determine how biophysical and cellular events accompanying traumatic brain injury lead to concussion.

\$750,000 total direct costs (S. Kernie)

R01 NS095803 1/01/2017 – 12/31/2021

The Role of ApoE in Injury-Induced Neurogenesis

NIH, NINDS

Principal Investigator: S. Kernie

The purpose of this proposal is to determine how ApoE regulates injury-induced neurogenesis using mouse conditional knockout and human-specific isoform strategies.

\$900,000 total direct costs

1/01/2018 – 12/31/2019

Effects of a novel neuroprotective kinase inhibitor on recovery from traumatic brain injury

The Ludwig Family Foundation, Inc

Principal Investigators: H. Wichterle, S. Kernie, Columbia

The purpose of this proposal is to determine how novel kinase inhibitors affect outcome following a mouse models of traumatic brain injury

\$300,000 total direct costs

1/01/2018 – 12/31/2019

Theridase: Therapy for cerebral edema and increased intracranial pressure

Columbia Translational Therapeutics (TRx) Pilot Award
National Center for Advancing Translational Sciences, NIH Grant UL1TR001873

The purpose of this proposal is to test a novel and patent-pending anti-edema therapy on porcine brains following traumatic brain injury.

Principal Investigators: B. Morrison, S. Kernie, Columbia

\$40,000 total direct costs

1R56NS089523 08/01/2015 – 12/31/2016

The Role of ApoE in Injury-Induced Neurogenesis

National Institutes of Health/ NINDS

Principal Investigator: S. Kernie

The purpose of this proposal is to determine how ApoE regulates injury-induced neurogenesis using mouse conditional knockout and human-specific isoform strategies.

\$286,000 total direct costs

R01 HL115557 06/15/2013 – 04/30/2017

Harmful Effects of Red Blood Cell Transfusions are Mediated by Iron

National Institutes of Health /NHLBI

Principal Investigator: S. Spitalnik

This proposal examines whether critically ill children receiving red blood cell transfusions accumulate iron and are immunosuppressed because of this.

Role: Co-Investigator

R21 NS083077 06/01/2013 – 5/30/2015

Therapeutic Enhancement of Neurogenesis Following Traumatic Brain Injury

National Institutes of Health/ NINDS

Principal Investigator: S. Kernie

\$225,000 total direct costs

R21 NS074394

Noninvasive Assessment of Traumatic Brain Injury with PET Using⁶⁴

CUCL2

National Institutes of Health, NINDS

Principal Investigator: F. Peng

Role: Co-Investigator

5R01 NS048192

The Role of Neural Stem Cells in Traumatic Brain Injury

National Institutes of Health, NINDS

Principal Investigator: S. Kernie

\$202,500 direct costs/year

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5R01 NS049545

Ephrins Regulate Stem Cell Proliferation Following TBI

National Institutes of Health, NINDS

Principal Investigator: D. Liebl, University of Miami

Co-Principal Investigator: S. Kernie

\$42,000 direct costs/year

3R01NS048192-04S1

The Role of Neural Stem Cells in Traumatic Brain Injury

National Institutes of Health, NINDS

Principal Investigator: S. Kernie

Student Supplement

\$11,200 direct costs

5R01 HD048179

Genetic Factors in Outcome From Traumatic Brain Injury

National Institutes of Health, NICHD

Principal Investigator: R. Diaz-Arrastia

Role: Co-Investigator and site Principal Investigator

1K08 HD01470-01

BDNF Promoter Elements in the Developing Hypothalamus

National Institutes of Health, NICHD

Principal Investigator: S. Kernie

\$108,000 direct costs/year

Transplantation of Neural Stem Cells in Traumatic Brain Injury

Children's Medical Center at Dallas Research Advisory Committee

Faculty Sponsor and Project Principal Investigator

\$15,000 support for D. Miles (Fellow)

Crystal Charity Ball Collaborative Program for Pediatric Brain Injuries

Co-Principal Investigator: S. Kernie

\$877,000

President's Research Council Distinguished Young Researcher

UT Southwestern Medical Center at Dallas

\$60,000

Educational Contributions

Direct Teaching/Precepting/Supervising

2011 – Present

PICU Attending, Columbia University Medical Center, New York-Presbyterian
Morgan Stanley Children's Hospital.

1999 – 2011	PICU Attending, UT Southwestern Medical Center, Children’s Medical Center of Dallas 8-11 weeks of clinical service per year, led all patient care and educational activities for team with 1 critical care fellow, 4 residents, one sub-intern (medical student).
2010 – 2011	Co-director, Medical Embryology, core course for all first-year medical students (approximately 200), UT Southwestern Medical School. Along with other co-director, designed curriculum, lectured twice, coordinated guest lectures, graded papers for entire first-year medical school students.
2003 – 2005	Co-Program Director, Reprogramming the Human Brain, collaborative conference on brain plasticity, UT Dallas/UT Southwestern joint collaboration. Developed and organized annual day long symposium with over 200 learners featuring Nobel prize winners in neuroscience along with leading neuroscience investigators from around the country.
2001 – 2004	Program Director, Making a World of Difference, Pediatric Critical Care conference, Children’s Medical Center Dallas. Organized lectures and guest speakers for day-long symposium in pediatric critical care.
2000 – 2001	Lecturer and discussion leader, Introduction to Embryology-required course for first year medical students, UT Southwestern Medical Center at Dallas.

Advising and Mentorship

06/2012 – Present	Columbia University Vagelos College of Physicians and Surgeons Mentor, Doctoral Program in Neurobiology and Behavior	New York, NY
06/2011 – Present	Columbia University Vagelos College of Physicians and Surgeons Mentor, Doctoral Program in Pathology and Molecular Medicine	New York, NY

Trainees mentored

<u>Post-doctoral fellows</u>	<u>Years</u>	<u>Current position</u>
Patricia Washington, PhD	2014-2017	Program Director, New York Academy of Sciences
Tzong-Shiue Yu, PhD	2011-2022	Senior Research Scientist, MeiraGTx
Sue Hong, MD	2012-2014	Assistant Professor of Pediatrics, Johns Hopkins University
Lakshmi Raman, MD	2008-2011	Associate Professor of Pediatrics, UT Southwestern Medical Center
Paul Tannous, MD, PhD	2010-2011	Assistant Professor of Pediatrics,

Kyle Lieppman, MD	2009-2011	Northwestern University Clinical Faculty, Dell Children's Hospital, Austin, TX
Wei Li, PhD	2008-2009	Associate Researcher, UT Southwestern Medical Center
Cui-Ping Yang, PhD	2006-2011	Assistant Professor, Kunming Institute of Zoology
Josh Koch, MD	2006-2008	Division Chief, Pediatric Cardiac Critical Care Phoenix Children's Hospital
Darryl Miles, MD	2003-2007	Associate Professor, UT Southwestern Medical Center
Jian Shi, PhD	2002-2008	Associate Professor, University of California San Francisco
Haitham Salman, MD	2002-2004	Clinical Faculty, Saginaw, Michigan
William Ma, MD	2001-2003	Clinical Faculty, Indiana University

Pre-doctoral fellows

Fatima Imessaoudene	2020	Paris XIII University, Bibigny, France
Yacine Tensaouti	2016	Universite Claud Bernard, Lyon, FR, MS, 2016
Rina Davidson	2016	Yeshiva University
Ayesha Firdous	2015-2017	Barnard College
Mohammed Zohaib	2014-2016	Columbia University, BS, 2016
Jonathan Smerling	2012-2015	Columbia University, BA, 2015
Erica Glaubit	2014	Cornell University, BS, 2016
Jamie Wright	2009-2011	University of Houston, MD/PhD, 2018
Edward Daniel	2009	Harvard University, MD, PhD, 2020
Georgi Dimchev	2008	Manchester University, UK, PhD, 2015
Sheeren Mohideen	2008	University of Texas at Dallas, MS, 2008
Matthew Solove	2007	Loyola University, MD, 2016
Pritam Ghosh	2004	Assistant Professor, UT Southwestern Medical Center
Monisha Dandekar	2003	Clinical Pathologist, Kansas City, MO

Doctoral Candidates

Sana Chintamen, PhD	2017-2021	Research Scientist, Cajal Neuroscience Columbia University, Program in Neurobiology and Behavior
Jennifer Gilley, PhD	2006-2011	Lecturer, Southern Methodist University UT Southwestern, Program in Genes and Development
Tzong-Shiue Yu, PhD	2002-2008	Senior Research Scientist, MeiraGTx UT Southwestern, Program in Neuroscience

Mentee Awards

- 2014 Sue Hong, MD, Best Fellow Research Award in Basic Science, Columbia University, Department of Pediatrics
- 2012 Paul Tannous, MD/PhD, Resident Research Award, Pediatric Academic Societies Annual Meeting, Toronto, Canada, May 2012
- 2007 Tzong-Shiue Yu, Top 10 Student Finalist for best abstract, National Neurotrauma Society, Annual meeting, July, 2007, Kansas City, Missouri

Dissertation Committees

Jacquelyn Salzbank, PhD	2024	Columbia University, Cellular, Molecular, and Biomedical Studies
Andrew Basilio, PhD	2023	Columbia University, Biomedical Engineering
Alina Kline Schoder, PhD	2023	Columbia University, Biomedical Engineering
Nevin Varghese, PhD	2022	Columbia University, Biomedical Engineering
Emanuele Mocciaro, PhD	2019	University of Texas Medical Branch, Galveston
Andrew Kang, PhD	2014	Columbia University, Biomedical Engineering
Michael Lamprecht, PhD	2013	Columbia University, Biomedical Engineering
Brian Mcellin, PhD	2012	UT Southwestern, Biomedical Sciences
Kerstin Ure, PhD	2011	UT Southwestern, Genes and Development
Jessica Ables, PhD	2010	UT Southwestern, Neuroscience
Denise Ramirez, PhD	2010	UT Southwestern, Neuroscience

Clinical and Public Health Activities and Innovations

2021 - 2024 Chief Medical Officer, Women's and Children's services, New York-Presbyterian

In 2021, I was asked by New York-Presbyterian senior leadership to transition from my academic role at Columbia to a hospital-based senior administrative role as Chief Medical Officer for Women's and Children's services. This role was new to the New York-Presbyterian enterprise and was implemented to integrate and consolidate where appropriate the clinical service lines at our 8 regional campuses that serve women and children. This includes two children's hospitals, the New York-Presbyterian Morgan Stanley Children's Hospital at Columbia, and the Komansky Children's Hospital at Cornell. In this role, I serve as the most senior hospital administrator dedicated to the pediatric enterprise, which includes oversight of the service lines, medical directorships, quality and patient safety, patient experience, strategic planning and clinical growth, and pediatric-specific philanthropy. During this relatively brief time I have initiated many metric-driven processes to integrate the pediatric clinical enterprise that have shown success. These include:

1) Restructuring US News & World Report reporting that has resulted most recently in highest overall ranking in 6 years and improvement in 8/10 specialties with all 10 specialties nationally ranked (up from 8).

2) Integration of key clinical programs in the two children's hospitals, namely cardiology/cardiothoracic surgery, and liver failure/liver transplant.

3) Establishment of two distinct clinical pathway forums for the entire 8-hospital enterprise, one for pediatrics and another for neonatal medicine which have now put forth over a dozen enterprise-aligned clinical pathways.

2020 Transformation of NewYork-Presbyterian Morgan Stanley Children's Hospital during the COVID-19 pandemic

The COVID-19 pandemic brought unique challenges worldwide, none more evident than what occurred in New York City. I helped lead NewYork-Presbyterian's pediatric response that included aggregating all pediatric care from 9 system hospitals to the Morgan Stanley Children's Hospital, expanding our ICU capacity by 50%, expanding services not only to children, but also critically ill adults with severe COVID-19 disease into our pediatric space, and early identification and implementation of treatment protocols for multisystem inflammatory disease in children (MIS-C), a new disease related to COVID-19. My role in this unprecedented team effort was highlighted in over a dozen national news outlets and resulted in high-impact peer-reviewed papers in JAMA and JAMA Pediatrics among others. In addition, I was the lone medical staff member from either Columbia or Cornell asked to address the NewYork-Presbyterian Board of Trustees for its first quarterly meeting following the peak of the pandemic in June 2020.

2018-2020 Establishment of Pediatrics Department Quality Program

With the arrival of a new Chair of Pediatrics in June, 2018, I was asked to take on a new role as Vice-Chair of intra hospital clinical affairs. My first initiative in this role was to put in place a department-specific Quality and Patient Safety structure that had not existed previously and was fundamental to all clinical programs that interfaced with the New York Presbyterian Morgan Stanley Children's Hospital. This has resulted in hiring and appointments of an Associate Vice-Chair for Quality and Patient Safety and an administrative manager of Quality and Patient Safety for the Department. Together, we have developed structures across the department for following key metrics, establishing EMR dashboards, and keeping data and programs aligned with US News & World Report Children's Best Hospital rankings. Following the first year of this program's implementation, metrics for 5 of 7 areas specific to the Pediatrics department rose significantly in rank, including 2 of the 5 that rose > 10 spots to now be in the top 10 nationally.

2017-2019 Establishment of Rapid Exome Sequencing Program

Whole exome sequencing (WES) has become increasingly used to diagnose a variety of patients with rare diseases and it is particularly useful in undiagnosed pediatric patients. By reviewing our history of WES results from 2015-2016, we established criteria for patients we believed would most likely benefit from rapid testing and tested this in a hospital-supported pilot study of 10 patients. The length of stay in these patients went from 2 months to less than 2 weeks when compared to historical controls and led to the hospital-wide implementation of rapid WES in select PICU patients supported by the Columbia Institute for Genomic Medicine. This work was published in 2020 and featured as the PediaPod podcast for October, 2020 for the journal *Pediatric Research*.

2015 Establishment of Pediatric Neuro-Intensive Care Unit

I initiated and implemented a plan for a 14-bed state-of-the-art pediatric neuro-critical care unit. After 3 years of planning with hospital administration, architects, nursing, departments of neurology and neurosurgery, we opened in June 2015 a specialized ICU for neurologically injured children. This ICU serves children from 0-21 years of age suffering from disorders of the brain and spine, both acquired and congenital. Care is coordinated with critical care, neurology, and surgical specialists to provide the kind of specialized care required for ideal outcomes following any kind of neurological injury. It also serves as a

unique opportunity to conduct translational investigation that complements the research we have been doing in the lab over the last 15 years.

2011 – 2021 Chief, Critical Care Medicine
Morgan Stanley Children’s Hospital, New York Presbyterian
Columbia University Irving Medical Center

Since starting in my role as chief of pediatric critical care medicine in 2011, I reorganized three clinical services (41 total beds) with the overriding goal of optimizing patient-focused care in order to improve patient outcomes, nursing involvement in medical decision making, parental experience, and the educational experience of trainees. Metrics attesting to the success of these interventions that have occurred during my tenure as division chief include:

- 1) Fewer year-over-year hospital-acquired infections now at rates uniformly lower than the national benchmarks in all areas.
- 2) PICU mortality decrease from over 3% in 2012-2014 to < 2% in 2015 - 2018, well below national averages for similar sized PICUs
- 3) Highest Press-Ganey scores for overall “best physicians” at New York Presbyterian in 2014 and 2015.
- 4) Highest rated inpatient rotation for Columbia pediatric residents in 2014-2020 (from near worst-ranked inpatient rotation in 2011-2012).

Patents and Inventions

Patent # 12,042,528 B2 Issued 07/23/2024
Inventors: Barclay Morrison, Patricia Washington, Steven Kernie
Title: Hyaluronidase for the treatment of cerebral edema

Publications (*indicates senior author, trainees are underlined) *h index = 39 (Google Scholar)*

Original, peer-reviewed articles

1. Chintamen[#], S., Gaur[#], P. Vo, N., Bradshaw, E., Menon, V., **Kernie***, **S.G.** (2024) Distinct microglial transcriptomic signatures within the hippocampus. PLOS One. [#]equal contributors. PMID 38180982
2. Kline-Schoder[#], A., Chintamen[#], S., Willner, M., DiBenedetto, M., Foscolos, C., Batts[#], A., Noel, R., Kwon[#], N., Zacharoulis, S., Wu, C.C., **Kernie**[#], **S.G.**, Konofagou[#], E. (2023) Characterization of the responses of brain macrophages to focused ultrasound-mediated blood-brain barrier opening. 19 October 2023 Nature Biomedical Engineering. [#] equal contributors. PMID 37857722
3. McGowan, J.C., Ladner, L.R., Shubeck, C.X., Tapia, J., LaGamma, C.T., Anqueira-Gonzalez, A., DeFrancesco, A., Chen, B.K., Hunbsberger, H.C., Sydnor, E.J., Logan, R.W., Yu, T.S., **Kernie, S.G.**, Denny, C.A. (2023) Traumatic brain injury-induced fear generalization in mice involves hippocampal memory trace dysfunction and is alleviated by (R,S)-ketamine. Biological Psychiatry. Jul 7 online, ahead of print. PMID 3743591

4. Duron, V., Schmoke, N., Ichinose, R., Stylianos, S., **Kernie, S.G.**, Dayan, P.S., Slidell, M.B., Stulce, C., Chong, G., Williams, R.F., Gosain, A., Morin, N.P., Nasr, I.W., Kudchadkar, S.R., Bostridge, J., Prince, J.M., Sathya, C., Sweberg, T., Dorrello, N.V. (2023) Delphi process for validation of fluid treatment algorithm for critically ill pediatric trauma patients. J. Surgical Research. Dec 9;295: 493-504. PMID 38071779
5. CreveCoeur, T.S., Alexiades, N.G., Bonfield, C.M., Brockmeyer, D.L., Browd, S.R., Chu, J., Figaji, A.A., Groves, M.L., Hankinson, T.C., Harter, D.H., Hwang, S.W., Jea, A., **Kernie, S.G.**, Leonard, J.R., Martin, J.E., Oetgen, M.E., Powers, A.K., Rozzelle, C.J., Skaggs, D.L., Strahle, J.M., Wellons, J.C., Vitale, M.G., Anderson, RCE (2023) Building consensus for the medical management of children with moderate and severe acute spinal cord injury: a modified Delphi study. J. Neurosurgery Spine. Mar 17:1-14. PMID 36933257
6. Motelow, J.E., Lippa, N.C., Hostyk, J., Feldman, E., Nelliagn, M., Ren, Z., Alkelai, A., Milner, J.D., Gharavi, A.G., Tang, Y., Godstein, D.B.*, and **Kernie***, **S.G.** (2022) Risk variants in the exomes of children with critical illness. JAMA Network Open. *co-senior authors 5(10):e2239122. PMID 36306130
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This paper was the first to show a functional role for hippocampal neurogenesis following injury and provided evidence for how some self-recovery occurs after injury. It was featured on many national news outlets including U.S. News and World Reports and Scientific American (June 2011 issue) and has been cited over 150 times.
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This paper was among the first to show the harm of resuscitation with pure oxygen and provides some of the strongest evidence for limiting this practice clinically. It was featured in a press release written up by several national organizations including Scientific American (Scientific American Mind, Oct-Nov 2008).
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This paper (for which I was first and corresponding author) was accompanied by a press release and featured in a number of media outlets as it was among the first to demonstrate that injury may induce brain repair. It became the basis for much of my subsequent work and was featured on the cover of this issue of The Journal of Neuroscience Research. It has been cited over 350 times.
65. **Kernie, S.G.**¹, Liebl, D.J.¹, and Parada, L.F. (2000) BDNF regulates weight and locomotor activity in mice. EMBO Journal. Mar: 19 (6). 1290-1300.
¹co-first authors
This paper was the first to demonstrate a role for BDNF in obesity and served as the basis for my K08 award. It has been cited over 1000 times.

Invited and Peer-Reviewed Review Articles

1. Chintamen, S., Imessaoudene, F., Kernie, S.G., (2021) Immune Regulation of Adult Neurogenic Niches in Health and Disease. Frontiers in Cellular Neuroscience. 14:571071. doi: 10.3389/fncel.2020.571071.
2. Huang, Y.Y., Monteleone, M., Ferari, L., States, L.J., **Kernie, S.G.**, Mencin, A.A., Gupta, S., and Sun, L.S. (2016) Use of Anesthesia for Imaging Studies and Interventional Procedures in Children. J. Neurosurgical Anesthesia. Aug 25 (epub ahead of print). PMID 275645559

3. Yu, T.S., Washington, P.M., and **Kernie, S.G.** (2016). Injury-Induced Neurogenesis: Mechanisms and Relevance. Neuroscientist. Feb;22(1):61-71. PMID 25520428
4. Cappell, J. and **Kernie, S.G.** (2013) Advances in Pediatric Neurocritical Care. Pediatric Clinics of North America. 60 (3): 709-724. PMID 23639664
5. Koch, J.D. and **Kernie, S.G.** (2011) Protecting the Future: Neuroprotective Strategies in the Pediatric Intensive Care Unit. Current Opinion in Pediatrics. 23: 275-280. PMID 21467939
6. **Kernie, S.G.** and Parent, J.M. (2010) Forebrain Neurogenesis after Focal Ischemic and Traumatic Brain Injury. Neurobiology of Disease. 37 (2): 267-274. PMID 19909815
This is the mostly widely cited review on this topic with over 500 citations.
7. Miles, D.M. and **Kernie S.G.** (2006) Brain Remodeling and Regeneration after Injury. Moller, ed. Progress in Brain Research. 157(12): 187-197. PMID 17167908
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Book Chapters

1. Cappell, J. and **Kernie, S.G.** (2021) Pediatric Brain Injury and Shaken Baby Syndrome, Chapter 151. Merritt's Neurology 14th Edition. 1572-1578. Wolters Kluwer Health.
2. Tansey, M.G. and **Kernie, S.G.** (2017) Inflammation in Neurodegenerative Disease and Injury. In: Reference Module in Neuroscience and Biobehavioral Psychology, Elsevier. ISBN 9780128093245.
3. Cappell, J. and **Kernie, S.G.** (2015) Pediatric Brain Injury and Shaken Baby Syndrome, Chapter 146. Merritt's Neurology 13th Edition. 1293-1296. Wolters Kluwer Health.
4. Hong, S., Yu, T.Z., and **Kernie, S.G.** (2014) Role of Neural Stem and Progenitor Cells in the Adaptation of the Brain to Injury. Endogenous Stem Cell-Based Brain Remodeling in Mammals. 57-86. Humana Press. Junier and Kernie, editors.
5. **Kernie, S.G.** (2011) Management of Cerebral Edema and Elevated Intracranial Pressure. In: Rudolph's Pediatrics, 22nd Edition, Rudolph, C. ed. McGraw-Hill Publishing. Chapter 111. 420-422.
6. Tansey, M.G. and **Kernie, S.G.** (2009) Inflammation in Neurodegenerative Disease and Injury. In: Squire LR (ed.) Encyclopedia of Neuroscience, Volume 5. 131-136. Oxford: Academic Press.
7. **Kernie, S.G.** and Lehman S.M. (2007) Intracranial Hypertension. In: Wheeler, Wong, and Shanley, eds. Pediatric Critical Care Medicine: Basic Science and Clinical Evidence. 1st ed. Springer-Verlag Publishing, Inc., London, UK. (80). 902-916.
8. Rubenstein, J.L.R. and **Kernie, S.G.** (2004) Overview of Brain Development. In: Neurobiology of Mental Illness. Charney and Nestler eds.

Editorials and Letters

1. **Kernie, S.G.** (2015) Cell-Based Therapy for Pediatric Traumatic Brain Injury: Not (yet) an Update to the Traumatic Brain Injury Guidelines. *Pediatric Critical Care Medicine*. Mar; 16(3): 294-295.
2. **Kernie, S.G.** and Mustafa, M. (1995) Fever and Neutropenia: Defining Low-risk Groups. *Pediatric Infectious Disease Journal*. Jan; 14 (1): 82-3

Books Edited

1. Endogenous Stem Cell-Based Brain Remodeling in Mammals. (2014) Humana Press. Junier and Kernie, editors. ISBN 978-1-4899-7398-6

Invited and Peer-Selected Presentations

International

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| 10/2020 | Multi-system Inflammatory Syndrome related to COVID-19 in children and adolescents, Union of European Neonatal and Perinatal Societies, Annual Meeting, October 22 (virtual). |
| 10/2017 | Sequencing for Rare Diseases in the Pediatric ICU, XIVth Congress of Pediatric Emergency and Intensive Care Medicine, October 20, Adana, Turkey. |
| 10/2017 | Self-repair After Traumatic Brain Injury, Invited Speaker, XIVth Congress of Pediatric Emergency and Intensive Care Medicine, October 20, Adana, Turkey. |
| 5/2015 | Traumatic Brain Injury in Children, Invited Speaker, 1 st International Conference in Pediatrics and Obstetrics-Gynecology, May 22, 2015, Dubai, UAE. |
| 5/2013 | ICU Management of Severe Brain Injury in Children, Invited Speaker, Beijing Children's Hospital, May 28, 2013, Beijing, China. |
| 7/2011 | Endogenous Stem Cells and Their Role in Recovery from Brain Injury, International symposium on brain injury in children, University of Toronto, July 14, 2011, Toronto, Canada. |
| 7/2011 | Self-repair After Brain Injury, Visiting Professor, Institute of Developmental Biology Marseilles (IBDM), July 1, 2011, Marseilles, France. |
| 9/2010 | Genetic Modeling of Acquired Brain Disease, Institut Curie, invited seminar, September 27, 2010, Paris, France. |
| 5/2007 | Brain Injury in the ICU, Session Chair, Pediatric Academic Societies Annual Meeting, May 5, 2007, Toronto, Canada. |

- 3/2004 Temporally Controlled Genetic Activation in Neural Stem Cells, UK/Texas Symposium on Tissue Engineering and Regenerative Medicine, March 24, 2004, London, England.
- 9/2006 Mechanisms Underlying Injury-induced Neurogenesis, 8th Latin American Congress for Pediatric Critical Care, September 28, 2006, Cartagena, Colombia.
- 4/2003 Non-accidental Brain Injury in Children, Colombian Society for Critical Care Medicine, Annual Meeting, April 23, 2003, Cartagena, Colombia.
- 4/2003 CNS Regeneration Following Traumatic Brain Injury, Colombian Society for Critical Care Medicine, Annual Meeting, April 22, 2003, Cartagena, Colombia.

National

- 4/2022 Do Genetics Matter in Pediatric Traumatic Brain Injury, Pediatric Grand Rounds, UCLA, Mattel Children's Hospital, April 15th, 2022 (virtual)
- 3/2021 ApoE's Role in Repair Following Brain Injury, Keynote Address, Pediatric NeuroCriticalcare Research Group, March 9th, 2021 (virtual).
- 10/2020 Mechanisms Underlying Injury-induced Neurogenesis, John D. Wiley Seminar Series, University of Wisconsin-Madison, October 30th, 2020, Madison, WI.
- 2/2019 Development of a Pediatrics Department Hospital Quality Council, Association of Medical School Pediatric Department Chairs, Physician Leadership Development Program, February 28, 2019, Savannah, GA
- 1/2019 What's the Real Diagnosis in Children with Critical Illness, Invited seminar, Cincinnati Children's, Division of Pediatric Critical Care Medicine, January 7, 2019, Cincinnati, OH.
- 5/2017 Activation of Neurogenesis Following Traumatic Brain Injury. Pediatric Academic Societies Annual Meeting. Invited Science. May 7, 2017, San Francisco, CA.
- 5/2017 Genetic Considerations in Severe Childhood Brain Disease. Pediatric Grand Rounds, Phoenix Children's Hospital, May 2, 2017, Phoenix, AZ.
- 5/2017 ApoE in Injury-induced Neurogenesis. Pediatric Neuroscience Grand Rounds, Barrow Neurological Center, Phoenix Children's Hospital, May 1, 2017, Phoenix, AZ.
- 9/2016 The Role of ApoE in Injury-induced Neurogenesis. Pharmacology, Physiology, and Neuroscience departmental seminar series, Rutgers University, September 19, 2016, Newark, NJ.

- 12/2014 Mechanisms of Self-repair Following Traumatic Brain Injury, Pediatric Grand Rounds, December 8, 2014, The Children's Hospital at Oklahoma University, Oklahoma City, OK.
- 4/2014 Mechanisms of Self-repair After Traumatic Brain Injury, Pediatric Critical Care Grand Rounds, Children's Hospital Central California, April 18, 2014, Madera, CA.
- 5/2013 Activation of Hippocampal Stem Cells Following Injury, Pediatric Academic Societies Annual Meeting, Symposium organizer, moderator and speaker, May 5, 2013, Washington, D.C.
- 4/2013 The Role of Endogenous Neural Stem Cells in Recovery After Brain Injury, Pediatric Grand Rounds, Monroe Carell Jr. Children's Hospital, Vanderbilt Medical Center, April 9, 2013, Nashville, TN.
- 1/2012 The Relevance of Hippocampal Neurogenesis to Human Brain Injury, Molecular Biosciences speaker series, Wichita State University, January 30, 2012, Wichita, KS.
- 5/2010 Self-repair After Brain Injury, visiting professor, Department of Pediatrics, Feinberg School of Medicine, Northwestern University, October 25, 2010, Chicago, IL.
- 5/2010 Self-repair After Brain Injury, Pediatric critical care colloquium, research plenary, May 16, 2010, Pittsburgh, PA.
- 3/2010 Genetic Modeling of Acquired Brain Disease, Pediatric neuro-intensive care research symposium, research plenary, March 9, 2010, Snowbird, UT.
- 10/2009 Stem Cells, Neurogenesis and Acquired Brain Injury (plenary talk), Second Joint Symposium of the International and National Neurotrauma Societies, September 10, 2009, Santa Barbara, CA.
- 3/2009 Genetic Modeling of Acquired Brain Disease, Arizona State University, March 24, 2009, Tempe, AZ.
- 3/2009 Hippocampal Development and Progenitor Response to Injury, Barrow Neurological Institute, March 23, 2009, Phoenix, AZ.
- 10/2008 Early Management of the Child with a Severe Brain Injury (plenary talk), 2008 Course on Neonatal and Pediatric Critical Care Transport Medicine, AAP Section on Transport Medicine, October 14, 2008, Boston, MA.
- 6/2008 Advances in Pediatric Traumatic Brain Injury, Trauma Grand Rounds, Dell Children's Hospital, June 6, 2008, Austin, TX.
- 4/2008 Management of Pediatric Traumatic Brain Injury, University of Kansas, Visiting Professor, Wesley Medical Center, April 28, 2008, Wichita, KS.

- 9/2007 Role of Stem Cell Activation for Recovery Following Brain Injury, University of Wisconsin, Waisman Center for Brain Research, September 24, 2007, Madison, WI.
- 5/2007 Brain Injury in the ICU, Session Chair, Pediatric Academic Societies Annual Meeting, May 5, 2007, Toronto, Canada.
- 10/2006 Mechanisms Underlying Brain Injury in Children, LaBonner Children's Hospital, University of Tennessee, October 11, 2006, Memphis, TN.
- 8/2005 Postnatal Profiling of Neural Stem Cell Activation, 6th Annual University of California Neurotrauma Meeting, August 12, 2005, Ojai, CA.
- 3/2005 Genetic Modeling of Neural Stem Cells in Acquired Brain Disease, UK/Texas Symposium on Tissue Engineering and Regenerative Medicine, March 1, 2005, Houston, TX.
- 8/2002 Evaluation and Treatment of the Child Following a Serious Traumatic Brain Injury, 18th Annual Pediatric Critical Care Nursing Conference. San Antonio, TX.
- 1/2002 Utilizing Mouse Genetics to Answer Questions in Human CNS Disease, Society for Critical Care Medicine, 31st Annual Congress, January 29, 2002, San Diego, CA.

Invited Regional and Local
Grand Rounds

- 11/2021 What's the Real Diagnosis in Children with Critical Illness, Pediatric Grand Rounds, Weill Cornell Medicine, Komansky Children's Hospital, November 9, 2021. New York, NY.
- 3/2021 ApoE and Repair Following Brain Injury, Pediatric Grand Rounds, Columbia University Irving Medical Center, March 5, 2021, New York, NY.
- 10/2019 ApoE and Injury-induced Neurogenesis, The Columbia Translational Neuroscience Initiative, bi-weekly scientific seminary series, October 25, 2019, New York, NY.
- 9/2018 ApoE and Injury-induced Neurogenesis, The Columbia Translational Neuroscience Initiative, bi-weekly scientific seminary series, October 25, 2019, New York, NY.
- 5/2018 What's the Real Diagnosis in Children with Critical Illness, Frontiers in Biomedicine 2, Wu Family China Center for Health Initiatives, Columbia University Irving Medical Center, September 24, 2018, New York, NY.
- 10/2017 The Role of ApoE in Adult Hippocampal Neurogenesis, Neurology Grand Rounds, Neurological Institute of New York, Columbia University Medical Center, May 18, 2018, New York, NY.

- 1/2014 What's the Real Diagnosis in Children with Critical Illness, Pediatric Grand Rounds, Columbia University Medical Center, October 6, 2017, New York, NY.
- 8/2013 Self-repair After Traumatic Brain Injury, Neurosurgery Grand Rounds, Columbia University Medical Center, January 30, 2014, New York, NY.
- 4/2013 Mechanisms of Self-repair After Brain Injury, Physical Medicine and Rehabilitation Grand Rounds, Columbia University Medical Center, August 1, 2013, New York, NY.
- 2/2013 Mechanisms of Self-repair After Traumatic Brain Injury, Neurology Grand Rounds, Neurological Institute of New York, Columbia University Medical Center, April 17, 2013, New York, NY.
- 9/2012 Genetic Modeling of Acquired Brain Disease, invited seminar speaker, Department of Cell Biology, New York Medical College, February 6, 2013, Valhalla, NY.
- 9/2012 Advances in Pediatric Traumatic Brain Injury, New York Society of Pediatric Critical Care Medicine, Columbia University Medical Center, September 24, 2012, New York, NY.
- 3/2012 Genetic Modeling of Acquired Brain Disease, Pediatric Grand Rounds, Columbia University Medical Center, September 14, 2012, New York, NY.
- 2/2012 Self-repair After Brain Injury, Pediatric Neurology Grand Rounds, Columbia University Medical Center, March 1, 2012, New York, NY.
- 12/2011 Advances in Pediatric Traumatic Brain Injury, Pediatric Grand Rounds, Blythedale Children's Hospital, February 9, 2012, Valhalla, NY.
- 12/2011 Self-repair After Brain Injury, Neurology Grand Rounds, Cornell University Medical Center, December 7, 2011, New York, NY.
- 1/2010 Self-repair After Brain Injury, Pediatric Grand Rounds, UT Southwestern Medical Center, Children's Medical Center Dallas, January 10, 2010, Dallas, TX.
- 9/2005 Acquired Brain Disease in Children, Pediatric Grand Rounds, Children's Medical Center Dallas, September 7, 2005, Dallas, TX.
- 3/2005 Medical Management of Intracranial Hypertension. Deep in the Heart of Texas: Neonatal and Critical Care Transport Conference, May 26, 2005, Grapevine, TX.
- 6/2002 Collaborative Clinical Investigation of Traumatic Brain Injury, 3rd Annual Making a World of Difference Lecture Series, June 6, 2002, Children's Medical Center Dallas, Dallas, TX.

- 10/2001 New Approaches for Understanding Traumatic Brain Injury in Children, October, 10, 2001, Hillcrest Health Systems Pediatric Grand Rounds, Waco, TX.
- 3/2001 Long-term Follow-up and Novel Therapeutic Strategies in Pediatric Traumatic Brain Injury, Pediatric Grand Rounds, Children's Medical Center Dallas, March 28, 2001, Dallas, TX.

Other Media

- 10/2020 PediaPod Podcast: Featured in Monthly broadcast for the journal *Pediatric Research* in association with Nature Publishing Group.
<https://www.nature.com/collections/fcbjbbchaa/2020-archive>
- 5/2020 During the COVID-19 pandemic in New York City, Dr. Kernie was interviewed and/or profiled in over a dozen national news outlets including The New York Times, The Washington Post, The Wall Street Journal, The Atlantic, CBS Evening News, CNN Tonight, and FOX News.

Online & Print

[The New York Times: Children Are Falling Ill With a Baffling Ailment Related to Covid-19](#)

May 5, 2020 | quoted

Also published in print on May 6

[The Washington Post: Children are falling ill with perplexing inflammatory syndrome thought to be linked to covid-19](#)

May 6, 2020 | quoted

[NBCNewYork.com: NY Now Requiring Hospitals to Report COVID-Linked Pediatric Illness Cases Immediately](#)

May 7, 2020 | quoted

[Reuters: U.S. scientists scramble to study life-threatening syndrome in kids linked to coronavirus](#)

May 7, 2020 | quoted

Also picked up by [U.S. News & World Report](#), [Yahoo! News](#), [Daily Mail](#)

[NBCNewYork.com: Up to 5 NY Children Dead, 85 Sickened by Rare COVID-Related Illness](#)

May 8, 2020 | quoted

[NBC New York Facebook Live: COVID-19 Conditions in Kids with Dr. Steven Kernie](#)

May 8, 2020 | interviewed 1:1 during a live Q&A

[Yahoo News: Symptoms of COVID-related inflammatory syndrome in kids are 'not subtle' — here are the two key signs to look for](#)

May 11, 2020 | quoted

[The Spokesman-Review: Gonzaga Prep grad in charge of New York pediatric unit helped lead rapid coronavirus response](#)

May 11, 2020 | profiled

[NBCNewYork.com: Up to 5 NY Children Dead, 100 Sickened by Rare COVID-Related Illness](#)

May 11, 2020 | quoted

[The New York Times: A New Coronavirus Threat to Children](#)

May 13, 2020 | quoted

[Health Matters: COVID-19 and Children: What to Know About Pediatric Multi-System Inflammatory Syndrome](#)

May 14, 2020 | featured

Also shared as “Today’s Tip” in the POLITICO New York Health Care newsletter on May 15

[The Atlantic: Why the Coronavirus Hits Kids and Adults So Differently](#)

May 15, 2020 | interviewed

Comments also picked up by [Refinery29](#), [Verywell Family](#)

[The New York Times: ‘Straight-Up Fire’ in His Veins: Teen Battles New Covid Syndrome](#)

May 17, 2020 | interviewed

Also published in print and in Spanish [online](#) on May 18

[The Wall Street Journal: Schools and Camps Weigh Coronavirus Risks to Kids When Deciding to Reopen](#)

May 19, 2020 | quoted

[Buzz Feed: Hundreds Of Kids In The US Have Been Hospitalized For The Mysterious Coronavirus-Related Syndrome](#)

May 26, 2020 | quoted

Broadcast

[CBS Evening News](#)

May 5, 2020 | interviewed

Interviews were also shared on [WCBS](#) and [WCBS Radio](#)

[CBS Evening News](#)

May 6, 2020 | interviewed

[WNBC](#)

May 6, 2020 | interviewed

[CNN Tonight with Don Lemon](#)

May 10, 2020 | interviewed live

[CNN Newsroom](#)

May 11, 2020 | interviewed live by Jake Tapper

[CBS Evening News](#)

May 13, 2020 | interviewed

[FOX News Bill Hemmer Reports](#)

May 14, 2020 | interviewed live.

- 7/2018 Work accompanied by press release from the Society of Neuroscience and featured in multiple news outlets:
https://www.eurekalert.org/pub_releases/2018-07/sfn-arg072618.php .
- 6/2011 Work featured in Scientific American: “How brains bounce back” p. 31, June 2011.
- 3/2011 Work featured on U.S. News and World Reports website as leading headline: “New brain cell growth restores function”, March 31, 2011.
- 7/2009 Interviewed for Parents Magazine, article entitled: “It could happen to anyone” on drowning accidents in children, published in the July 2009 issue.
- 10/2008 Work featured in Scientific American Mind: “The oxygen dilemma: without it, cells die. With too much, they die even faster”, p. 10 Oct-Nov 2008.
- 4/2003 Invited guest, The Glenn Mitchell Show, KERA public radio, “Living with an acquired brain injury”, April 9, 2003, Dallas, Texas
- 7/2009 Interviewed for Parents Magazine, article entitled: “It could happen to anyone” on drowning accidents in children, published in the July 2009 issue.
- 10/2008 Work featured in Scientific American Mind: “The oxygen dilemma: without it, cells die. With too much, they die even faster”, p. 10 Oct-Nov 2008.