

Children's Hospital Los Angeles

Department of Anesthesiology Critical Care Medicine



Research Director/Physician Scientist Search

About Children's Hospital Los Angeles

Founded in 1901, Children's Hospital Los Angeles (CHLA) (www.chla.org) is one of the nation's leading children's hospitals and is acknowledged worldwide for its leadership in pediatric and adolescent health. CHLA is a premier teaching hospital and has been affiliated with the Keck School of Medicine of the University of Southern California (USC) since 1932.

CHLA ranks as one of the nation's top hospitals in the Honor Roll of "U.S. News & World Report" Best Children's Hospitals list for five consecutive years. In 2012, for the fourth year in a row, CHLA was one of just twelve children's hospitals nationally to be named as one of the safest hospitals for children in the nation by the Leapfrog Group. In addition, CHLA was designated as a Magnet Hospital by the American Nurses Credentialing Center, an honor held by only five percent of hospitals nationwide. Each year, CHLA provides care for over 12,000 admissions, 250,000 outpatients and 55,000 emergency department visits. It also hosts the only American College of Surgeons Accredited Level I Pediatric Trauma Center in California.

Over the last century, CHLA has evolved to become one of the world's top centers for pediatric medicine and has achieved many firsts in pediatric medicine along the way. The Children's Center for Cancer and Blood Diseases pioneered treatments that are now used as the standard of care for acute leukemia, the most common childhood cancer. CHLA also performed the first pediatric heart surgery performed on the West Coast. And, the Children's Brain Center developed a magnetic resonance-compatible incubator which made CHLA the first in the world to perform functional magnetic resonance imaging on the tiniest babies. CHLA researchers have also successfully developed an innovative laser/chemotherapy treatment for retinoblastoma that is considered one of the most significant therapeutic advances, and performed the world's first transfer of a healthy gene into the umbilical cord blood cells of a newborn with Severe Combined Immunodeficiency Disease.

In July 2011, Children's Hospital Los Angeles built a new 460,000 square foot inpatient facility, the Anderson Pavilion. It is the finest medical and surgical environment for seriously ill and injured children anywhere in the United States. This new building will transform the practice of pediatric medicine, benefiting our patients, families and hospital caregivers for generations to come.



Awards/Recognitions

- Proud recipient of the Beacon Award for Excellence in Pediatric Intensive Care Units, an award given by the American Association of Critical Care Nursing
- Most recognized and favored hospital in Los Angeles County among families with children, according to a 2010 independent study
- Provides more than \$125 million annually in community benefits to the children and families of Los Angeles
- One of only seven children's hospitals nationwide to receive a 2007 Hospital of Choice Award from the American Alliance of Healthcare Providers, an award given to institutions that are the most customer-friendly hospitals in the U.S.

In addition to pioneering new and minimally invasive techniques, CHLA serves as a major regional referral center for children who require life-saving acute care. The medical staff at CHLA includes over 500 physicians, 94 percent of whom are board-certified in their specialty or specialties.

CHLA is organized into five departments:

- Anesthesiology Critical Care Medicine
- Pathology and Laboratory Medicine
- Pediatrics
- Radiology
- Surgery

In addition to its main campus in the Los Feliz section of Los Angeles, CHLA operates branch outpatient campuses in Arcadia, Valencia, and other locations in the greater Los Angeles area.

Partnership with the University of Southern California

CHLA is one of the country's premier teaching hospitals and has been affiliated with the Keck School of Medicine (KSOM) of the University of Southern California since 1932. CHLA doctors serve as faculty members at KSOM and train approximately 575 medical students, 85 full-time residents, three chief residents, and 98 fellows per year. Over the last 11 years, 96 percent of the residents graduating from the Children's Hospital Residency Program have passed the American Board of Pediatrics exam on the first attempt, far exceeding the national average.

CHLA gains significant advantages through its partnership with USC, which is a long-time member of the Association of American Universities (AAU) and the oldest private research university in the western United States. USC has steadily enhanced its academic excellence and reputation over the past two decades recently ranking 23rd among public and private universities in the nation, according to the 2012 *U.S. News & World Report* rankings.

USC continues to aspire to become one of the world's top research universities. A central component to achieving this ambition, USC is developing a comprehensive, integrated academic medical enterprise centered on the 78-acre USC Health Sciences Campus located three miles from downtown Los Angeles. In addition to CHLA, the USC Medical Enterprise comprises the USC KSOM, the Keck Medical Center of USC, the USC Norris Cancer Hospital, the Los Angeles County and USC Medical Center (LAC+USC), the CHLA Medical Group, and Doctors of USC - a 500-member physician practice group that operates in Los Angeles County.

About The Department of Anesthesiology Critical Care Medicine

The Department of Anesthesiology Critical Care Medicine (ACCM) was initially founded as a division of the Department of Surgery in the 1950s. Under the leadership of Dr. M. Digby Leigh, a pioneer in the field of pediatric anesthesia, CHLA became a major training center for the practice of pediatric anesthesia for residents and fellows in the Western United States and throughout the Pacific Rim. In 1991, the Department of Anesthesiology was established as an academic, university-based program in association with USC. The Department of ACCM at CHLA is unique in that it is one of only five integrated anesthesiology and critical care medicine departments nationally.

The Department of ACCM is made up of several divisions, the Division of Critical Care Medicine which provides care in the CTICU, PICU, and Procedural Sedation Unit, the Division of Anesthesiology, which provides care in the Main OR, Cardiac OR, Cath Lab, Radiology, and the Ambulatory Surgery Center and lastly, the Pain and Palliative Care Division which consults on inpatients throughout the hospital as well as outpatients in our Pain Management Clinic.

Furthermore, the Department of ACCM has a robust education program that supports more than 200 residents and trainees that rotate thru the program from outside hospitals and academic centers such as Riverside County Medical Center, Kaiser, and University of California, Los Angeles, and University of California, Irvine.

There are also two ACGME accredited fellowship programs within the Department. The main strength of the Department's Fellowship Program lies in its educational balance of outstanding clinical cases, leadership curriculum, and clinical and basic research opportunities.

Pediatric Critical Care Medicine Fellowship Program

The Division of Critical Care Medicine at Children's Hospital Los Angeles was formed in 1980, and the Fellowship Program was initiated in 1981. Currently there is a 24 bed Pediatric ICU and a 24 bed Cardiothoracic ICU that jointly admit over 2000 children annually. The Fellowship Program currently includes twelve Clinical Fellows and is a highly selective, three-year training program based on and adhering to the general requirements of the Subspecialty Committee of Pediatric Critical Care Medicine of the Board of Pediatrics. The Pediatric Critical Care Medicine Fellowship is accredited by the Residency Review Committee for Pediatrics and the ACGME.

Pediatric Anesthesiology Fellowship Program

The ACGME accredited Pediatric Anesthesia Fellowship Program is designed to provide experience in all aspects of Pediatric Anesthesiology as well as opportunities for clinical and basic research related to the field. Fellows have ample opportunity to assume responsibilities for patient care, teaching, and research. The fellowship training is based on clinical, didactic and self-directed experiential learning in relation to the six ACGME competencies.

The Fellowship Program currently includes eleven Clinical Fellows increasing to twelve and is a highly selective, one-year training program. The Fellowship provides comprehensive advanced training in all aspects of pediatric anesthesiology. The diversity of cases provides ample opportunities for solid clinical training and education, not only related to perioperative care, but also in a variety of other pediatric subspecialty fields such as critical care and acute and chronic pain at CHLA.

Leadership Curriculum

The Leadership curriculum at CHLA is a pioneer program in regards to the Professionalism and Leadership curriculum, (Physician executive training) which is taught throughout the Fellowship program. There is an emphasis on personal growth and development in order to prepare our Fellows to serve as future leaders.

This course is designed to increase professional effectiveness by focusing on leadership and professionalism. It considers the idea that individual influence in the medical context comes from credibility, ability to effectively lead and develop alignment with others. Participants will

look at dimensions of leadership including character, emotional intelligence, community, culture, organizational context, uses of power, as well as effective styles of leadership. All of these topics will focus upon the person as leader and the organizational structure that supports his/her leadership. This course is about building leadership competence and professional maturity through personal change and leading our organizational structures to patient and organizational health.

ACCM Department Leadership



The Department is led by Dr. Randall Wetzel, MB BS FCCM FAAP – Chairman, Anesthesiology Critical Care Medicine and the Anne O’ M Wilson Professor of Critical Care. Dr. Wetzel is also Director of the Laura P. and Leland K. Whittier Virtual Pediatric Intensive Care Unit (VPICU). Dr. Wetzel has specialized expertise in the use of telemedicine and informatics to provide cutting-edge care for seriously ill children. He serves on the Medical Executive, Resource Management, and Operating Room executive committees to name a few. He also serves on several editorial boards of peer review journals and as a consultant at NIH.



Barry Markovitz, MD, MPH – Division Chief of Pediatric Care, Medical Director of the PICU and Professor of Pediatrics and Anesthesiology at the USC Keck School of Medicine. Dr. Markovitz is the Director of the Scientific Review Committee of VPS, LLC and serves on the editorial board of several peer review journals. Dr. Markovitz also serves on the Pediatric Clinical Advisory Council as well as the Critical Response Systems Committee. He has a strong interest in medical informatics and has been the webmaster and principal editor of PedsCCM, The Pediatric Critical Care Website (<http://PedsCCM.org/>) since its inception in 1995. He has been

involved in the planning and/or conduct of numerous multicenter trials in Pediatric Critical Care Medicine and is a member of the Scientific Steering Committee of the Pediatric Acute Lung Injury and Sepsis Investigators (PALISI) research network.



Sylvia Del Castillo, MD – Medical Director Cardiothoracic Intensive Care Unit (CTICU) and serves as an Assistant Professor in Pediatric Critical Care Medicine at CHLA. Dr. Del Castillo completed her fellowship in Pediatric Critical Care Medicine at CHLA in June of 2004 and began as faculty in August 2004. Dr. Del Castillo currently serves as an attending physician in the cardiothoracic and pediatric intensive care units at CHLA. She also serves as a member of the Safety Council, the fellowship oversight committee, and sedation committee, as well as assistant director to the fellowship program at CHLA.



Gary Scott, MD – Director for Pediatric Anesthesiology and Associate Chief of the Department of ACCM. Dr. Scott serves as an Associate Professor of Anesthesiology and Pediatrics at USC and has served in numerous positions within CHLA and ACCM for more than 15 years. In addition to his role with CHLA, Dr. Scott is also the Vice President of CHLA Medical Group since 2011.

ACCM Department Research

The ACCM Department is involved in an extensive variety of clinical research in CHLA's intensive care units, operating rooms, and pain clinics. Physician-researchers are actively involved in leading-edge anesthesiology and critical care medicine research. ACCM Faculty, Fellows, and Research Staff have contributed the following:

- Authored 65 peer-reviewed manuscripts and over 100 presentations in 2012 - 2013
- Over 200 active research projects as of January 2014
- Over \$2M spent from ACCM sponsored projects in FY 2014

The majority of ACCM's research has the goal of reducing morbidity, mortality, injury, and pain in pediatric critical illness, and to provide a framework for the development of the scientific basis of pediatric critical care practice. ACCM has placed an emphasis on the expansion of technology and expertise to allow inter-institutional data sharing for the creation of extended, multi-center (distributed) knowledge bases. The department also features cutting-edge research in physiological and computer-based decision support tools, the basis of mechanical ventilation, chronic and acute pain attenuation, and palliative care.

Topics currently being studied include:

- Minimally invasive techniques to measure upper airway obstruction in children (NIH/NICHHD K23): Dr. Robinder Khemani was awarded a prestigious NIH grant to assess and validate minimally invasive techniques performed in a primate model for upper airway obstruction on infants and children in an ICU.
- Therapeutic Hypothermia after Pediatric Cardiac Arrest (THAPCA) Trials (NIH/NHLBI U01): ACCM is one of the vanguard sites and the top enroller for the THAPCA Trials, which is the largest funded clinical study in NIH history (Local PI: Dr. Christopher Newth). The THAPCA Trial is testing the hypothesis that therapeutic hypothermia will improve survival and neurobehavioral outcome following cardiac arrest in children.
- Advanced Computational Framework for Decision Support in Critically Ill Children (NIH/NLM RC1): Dr. Wetzel recently finalized his work on this NIH-funded project that aims to provide an integrated high-level view of a patient compared to and in the context of previous critically ill patients. The investigators used advanced computational techniques and artificial intelligence to detect categories within raw medical data from disparate data sources.

Research Infrastructure

The ACCM Department has a fully developed research infrastructure to support its faculty:

- Grants: ACCM has core research staff who are experienced in grant planning, writing, and submission. ACCM faculty has successfully received grants from NIH, FDA, Foundation, Intramural, and Industry sources. The department also has staff members who are experienced in post-award processes, and can manage the grant finances and reporting requirements.
- Personnel: The ACCM Department has over a dozen dedicated clinical research staff members who support the principal investigators. This group includes three research nurses and a research respiratory care practitioner. ACCM Faculty can rely on the research staff to assist with screening, consent conferences, research interventions, data collection, and follow-up.
- Regulatory: ACCM staff support the faculty with IRB applications, amendments, and continuing reviews. Staff members also conduct internal audits and assist with preparation for monitoring visits and IRB audits.
- ACCM Research Oversight Committee (ROC): The ROC is made up of ACCM faculty and research staff. The group meets once per month to conduct a pre-review on new IRB applications and discuss other issues related to research policy, finance, personnel, and productivity. The ROC has a protected budget that supports faculty, fellow, and staff travel for research presentations. The budget also includes funds for research supplies, equipment, document translation, software, poster printing, and other expenses.
- Statistics: The ACCM Department employs a PhD-level Research Scientist who is available for statistical support and manuscript preparation. An additional dedicated biostatistician is being actively recruited by the VPICU group to be a shared resource with ACCM Faculty.
- Laboratory: The ACCM Research group has wet laboratory space and resources. Six racks of -80 freezer space are available to ACCM researchers to support banking of tissues and specimens. ACCM has also obtained an immunoassay analyzer, a refrigerated centrifuge, micro-pipettes, and other laboratory supplies.

National Research Consortia

- Collaborative Pediatric Critical Care Research Network (<http://www.cpccrn.org/>): The Los Angeles Center for Collaborative Pediatric Critical Care Research Network (CPCCRN, PI: Dr. Newth) was funded by the NIH/NICHD for the 10th year in 2014. The center continues to conduct the NIH-funded CPCCRN Studies in the PICUs at the two major universities in Los Angeles: USC and UCLA. CHLA is the management center for both sites, and is one of seven national clinical centers.
- Pediatric Acute Lung Injury and Sepsis Investigators (PALISI) Network (<http://www.palisi.org/>): The ACCM Department is an active member of the PALISI Network, which is a collaboration of clinical researchers in 78 PICUs across North America. These researchers have joined together to identify optimal supportive, preventive and therapeutic strategies for acute lung injury, sepsis, multi-organ failure, and other acute, life-threatening pulmonary or systemic inflammatory syndromes that affect infants and children.
- Pediatric Acute Lung Injury Consensus Conferences (PALICC): Drs. Newth and Khemani have taken active leadership roles with the newly-formed PALICC project. In association with the PALISI Network, PALICC consists of an international panel of 26 experts in pediatric acute lung injury (ALI) with the aim of meeting in a series of consensus conference over the course of one year to develop a better taxonomy to define pediatric acute lung injury, specifically predisposing factors, etiology, and pathophysiology.
- VPICU, VPS, and NACHRI: Dr. Wetzel and ACCM have founded and/or are involved in several organizations that aggregate clinical and descriptive data from PICU's across the United States and Canada. These groups are: The Laura P. and Leland K. Whittier Virtual Pediatric Intensive Care Unit (VPICU), VPS, LLC, and the Children's Hospital Association (CHA). These organizations build data sets with hundreds of thousands of patient records, comprised of validated and comprehensive data. These groups directly serve the communities by providing physicians with a means to conduct internal and peer benchmarking, advance quality improvement and outcomes enhancement, and tracking of current ICU trends.

Southern California Clinical and Translational Science Institute

Established in 2010, the Southern California Clinical and Translational Science Institute (SC-CTSI; <http://sc-ctsi.org/>) is one of 60 NIH-funded Clinical Translational Science Awards with a mandate to increase the efficiency and quality of translational research. SC-CTSI helps accelerate scientific discoveries and their application in real-life settings to address the specific health needs of urban and diverse populations and improve human health, by helping researchers obtain the education, resources and collaborations necessary to translate discoveries into practice. A funded CTSI award is now an institutional requirement to apply for many NIH grant opportunities. The SC-CTSI also offers intramural training (K-series) and pilot grant mechanisms. ACCM Faculty members have been recipients of both types of awards.

The Saban Research Institute

The Saban Research Institute (TSRI; www.chla.org/saban) at CHLA is one of the few freestanding research centers in the U.S. designated exclusively for pediatric clinical and laboratory research. With over 100 investigators engaged in laboratory studies, clinical trials, community-based research, and health services research, TSRI received \$26 million in National Institutes of Health (NIH) funding and \$37 million in total funding last year. Overall, Children's Hospital Los Angeles is ranked #8 in NIH funding. TSRI at CHLA was also home to the world's first gene therapy clinical trial for children infected with HIV-1 and the pioneering epigenetics work by Dr. Peter Jones.

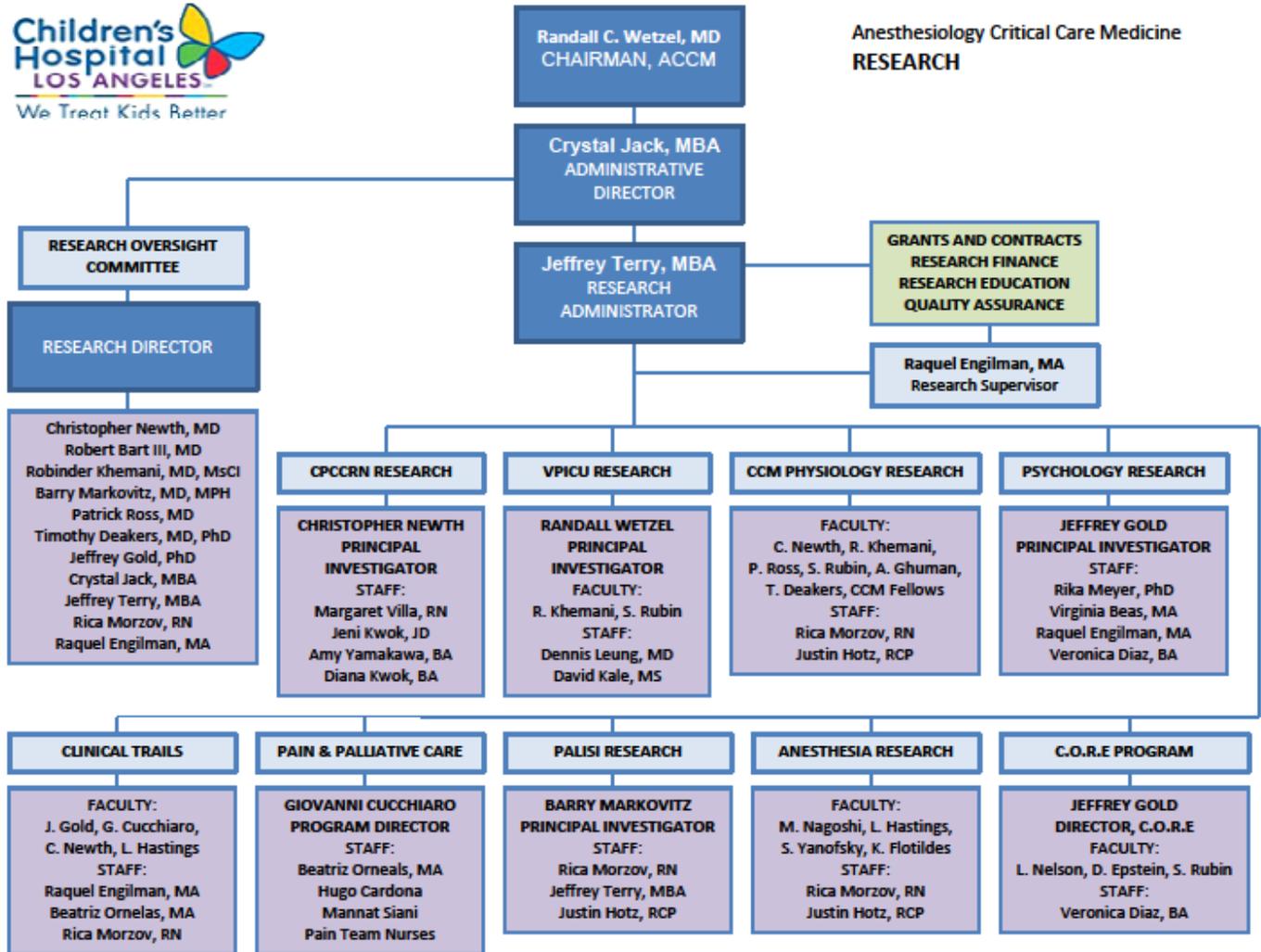
TSRI also serves as a centralized research office for CHLA. Each ACCM Principal Investigator is assigned a Sponsored Projects Analyst, who works with the PI and ACCM research staff on pre- and post-award tasks. TSRI maintains strong scientific and strategic affiliations with USC and, in particular, the KSOM. All of the institute's principle investigators (clinical investigators, physician scientists, and PhD scientists) are USC faculty, and many have collaborative projects with scientists at the KSOM and other departments at USC.



ACCM Research Organizational Chart



Anesthesiology Critical Care Medicine
RESEARCH



The Position

The USC Keck School of Medicine, Department of Anesthesiology Critical Care Medicine (ACCM) at Children's Hospital Los Angeles is actively recruiting a Physician Scientist and Research Director for the Division of Pediatric Critical Care Medicine. The successful candidate should be eligible for faculty position at the USC Keck School of Medicine at the Associate or Professor rank.

The critical care units consist of a 24-bed PICU with over 1,200 admissions per year and a 24-bed Cardiothoracic Intensive Care Unit (CTICU) with over 800 admissions each year.

Children's Hospital Los Angeles has large and active solid organ transplant programs including heart, lung, kidney, liver, and small bowel. The department has a wide range of research interests with strengths in informatics, physiology, clinical trials, and outcomes research. The recognized fellowship program consistently fills and attracts very high caliber trainees.

The ideal candidate will have a well-established track record of extramural funding and expertise in a relevant field of basic science, translational, or clinical research. The expectation is that this candidate would add substantively to our division in research productivity, in their own work, and by mentoring our junior faculty and fellows. A start-up package, including the ability to recruit additional faculty, is available. CHLA has extensive local, regional and national research collaborations including the USC Keck School of Medicine and The Saban Research Institute, available for the successful candidate.

Qualifications, Knowledge and Experience

- BE/BC in pediatric critical care medicine and pediatric cardiac intensive care experience is preferred. The Department is committed to clinical service and didactic instruction of postgraduate trainees in Pediatric Critical Care.
- A strategic national research leader grounded in personal integrity with the ability to energize, inspire, and encourage innovation and collaboration.
- Understanding of what represents future trends in advancing research.
- Effective verbal and written communication skills required in addition to problem solving and negotiation skills.
- Ability to interact, communicate and work collaboratively with all levels of employees including senior leadership, external consultants, researchers, physicians, and others.

- Significant practical experience in a complex research environment required and significant experience in a hospital environment preferred.
- Proven leadership capabilities, action-oriented and a positive change agent.
- Direct experience in a clinical or translational research environment.
- Successful, proven experience in administrative leadership within academia, or in a comparable position.
- Ability to work on matters of sensitivity and confidentiality with both diplomacy and discretion.

Compensation:

A competitive compensation package will be offered to the successful candidate based upon accomplishment and previous experience.

Procedure for Candidacy:

Children's Hospital Los Angeles is being assisted by Harris Search Associates for this search. Please contact to Jeffrey Harris, Managing Partner for further detail.

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Children's Hospital and the University of Southern California strongly value diversity and are committed to equal opportunity in employment.