

**UNIVERSITY OF SOUTHERN CALIFORNIA
KECK SCHOOL OF MEDICINE**

January, 2006

CURRICULUM VITAE

A. PERSONAL INFORMATION

Name: Rangasamy Ramanathan, M.D., F.A.A.P.

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Place of Birth: Ganapathypalayam, India

Citizenship: USA

Marital Status: Married

Spouse's Name: Prema Ramanathan, B.A.; M.A. (Economics)

Number of Children: Two

B. EDUCATION:

1968 Guruvappa High School, Madras

1968-1969 PSG Art College
Madras University
PreUniversity Science (P.U.C.)

1969-1975 Stanley Medical College
Madras, Madras University

1975-1976	India - M.B., B.S. Stanley Medical College Madras University Rotating Internship
1976-1977	Institute of Child Health and Hospital for Children, Madras University, Senior House Surgeon in Pediatrics
1977-1978	Institute of Child Health and Hospital for Children, Madras University, Residency in Pediatrics, Diploma in Child Health (D.C.H.)
1979-1981	Institute of Child Health and Hospital for Children, Madras University, Residency in Pediatrics (M.D. Pediatrics)
1982-1984	Lincoln Medical Center, New York Medical College New York, Residency in Pediatrics
1984-1986	LAC+USC Medical Center Los Angeles, Clinical Fellowship in Neonatology
1986-1987	Harbor-UCLA Medical Center University of California Los Angeles, Research Fellow in Neonatology

Teaching Evaluations by House staff

1988-Present	Excellence in Teaching (Every year since 1988)
1999	Excellence in Teaching
2000	Among the Best
2001	Excellent

Awards:

1999	SWPSICL Trophy for Best Presentation South Western Pediatric Society Annual Spring Meeting
2002	SWPSICL Trophy for Best Presentation

- 2004 “You Mouth Your Tale well” - Award
South Western Pediatric Society Annual Spring Meeting
Outstanding Teacher Award
Class of 2004
Department of Pediatrics
Keck School of Medicine
University of Southern California
- 2004 **Physician of the Year Award**
Good Samaritan Hospital
Keck School of Medicine
University of Southern California
- 2005 Richard H. Paul, M.D. Maternal-Fetal Medicine
Distinguished Teaching Award
Department of Obstetrics and Gynecology
Keck School of Medicine
University of Southern California
- 2005 Best Doctors in America

LICENSURE & CERTIFICATION

- 1976 Tamil Nadu Medical Council
Madras State, India. **M.B.B.S.** (3/29/76)
- 1978 Diploma in Child Health (**D.C.H.**), India
- 1981 **M.D.** Pediatrics, Indian Board of Pediatrics
- 1981 ECFMG (#244-457-8)
- 1981 Visa Qualifying Exam (VQE)
- 1981 Board of Medical Quality
Assurance, State of California
- 1987 **Diplomate**, American Board of
Pediatrics, Pediatrics #35567 (4/26/87)
- 1987 **Diplomate**, American Board of
Pediatrics-Neonatal and
Perinatal Medicine #1844 (10/23/87)

C. PROFESSIONAL BACKGROUND:

Academic Appointments:

- 1984-1986 Clinical Instructor of Pediatrics
Los Angeles County + USC Medical Center

1985-Present	Approved Supervisor of Physician Assistants Board of Medical Quality Assurance Sacramento, California
1987-1988	Assistant Professor Department of Pediatrics Olive View Medical Center UCLA School of Medicine
1988-1998	Assistant Professor of Pediatrics LAC+USC Medical Center USC School of Medicine
1998- 2002	Associate Professor of Pediatrics Keck School of Medicine University of Southern California
2003-Present	Professor of Pediatrics Keck School of Medicine University of Southern California

Clinical Appointments:

1988-Present	Attending Neonatologist, Women’s and Children’s Hospital, Los Angeles, CA
1988-Present	Medical Director, Newborn Intensive Care Unit Women’s and Children’s Hospital, LA, CA
1989-Present	Attending Neonatologist, Good Samaritan Hospital, Los Angeles, CA
1995-2002	Attending Neonatologist, San Gabriel Valley Medical Center, CA
1994-Present	Attending Neonatologist, Childrens Hospital Los Angeles, LA, CA
2004-Present	Attending Neonatologist, Hollywood Presbyterian Medical Center, LA, CA

Specific Teaching Responsibilities:

University of Southern California B.A./M.D. Program -
Faculty Mentor 1994- Present
University of Southern California Medical Students – Introduction to Clinical Medicine
Faculty Mentor for NICU – 2000 - present
Annual Advances in Neonatal Care Seminar - Speaker
LAC+USC Medical Center, Women’s & Children’s Hospital
1994-Present
Annual Physician Assistant Conference - Speaker

1994 – Present
 Nurse Midwifery Service - Speaker
 LAC+USC Medical Center, Women’s & Children’s Hospital
 1994-Present
 Annual Neonatal Conference - Hospital of the Good Samaritan
 Organizer/Moderator - 1995-Present
 Fellows Conference; Perinatal Conference and Pediatric Grand Rounds - Speaker
 LAC+USC Medical Center, Women’s & Children’s Hospital
 1988-Present
 Annual Advanced Neonatal/Pediatric Critical Care Program - Speaker
 1989-Present
 Monthly Morbidity and Mortality Conference - Moderator
 Good Samaritan Hospital 1989-Present
 Endotracheal intubation [Cat Lab] - Instructor LAC+USC Medical Center,
 Women’s & Children’s Hospital, 1988-1994
 Neonatal Elective Rotations for Housestaff and Physician Assistants.
 LAC+USC Medical Center, Women’s & Children’s Hospital
 1988-Present
 Supervision of Neonatal Fellow’s Research and Physician Assistant Research.
 LAC+USC Medical Center, Women’s & Children’s Hospital
 1988-Present
 Respiratory Therapy Lectures - LAC+USC Medical Center,
 Women’s & Children’s Hospital 1988-Present
 Special Care Nursery Update for Registered Nurses and Critical Care Nurses
 1988-Present.
 Physician Assistant Resident Lecture Series
 LAC+USC Medical Center, Women’s & Children’s Hospital
 1988-1994
 Nurse Clinician Course - LAC+USC Medical Center, Women’s & Children’s Hospital
 1988-Present
 USC Third Year Medical Students - Lecture
 1988-Present
 Teaching Rounds - Pediatric Housestaff, Newborn fellows, Neonatal Nurse
 Practitioners, Physician Assistants, Medical Students and Research Fellows.
 LAC+USC Medical Center, Women’s & Children’s Hospital, 1988-Present
 Mentor and Supervisor - International Fellows in Neonatology
 LAC+USC Medical Center, Women’s & Children’s Hospital, 1990-Present
 Moderator - Merle Carson Lectures, Southwestern Pediatric Society 1997- 2004
 Preceptor- Neonatology, Forest Laboratories, 1998-2000
 Preceptor – Neonatology, Dey Laboratories, 2001-Present
 Moderator, Perinatal Conference and Case reviews, Antelope Valley Hospital,
 Lancaster, CA 2001 - present

Specific Administrative Responsibilities:

1988-1990 Associate Medical Director, NICU

	Los Angeles County + USC Medical Center Women's & Children's Hospital
1990-1991	Associate Director, Respiratory Therapy Department, Los Angeles County +USC Medical Center Women's & Children's Hospital
1991 - Present	Director, Respiratory Therapy Department, Los Angeles County +USC Medical Center Women's & Children's Hospital
1990-Present	Director, Newborn Intensive Care Unit Los Angeles County +USC Medical Center Women's & Children's Hospital
1990-Present	Director, Neonatal Resuscitation Program Los Angeles County +USC Medical Center Women's & Children's Hospital
1991-Present	Regional Trainer, American Academy of Pediatrics/American Heart Association Neonatal Resuscitation Program
1989-Present	Associate Medical Director, NICU Hospital of the Good Samaritan USC School of Medicine
1990-Present	Director, High Risk Infant Follow-up Program Hospital of the Good Samaritan, USC School of Medicine
1991-1997	Associate Medical Director, Division of Neonatology Women's & Children's Hospital
1995-2002	Administrative Director, NICU San Gabriel Valley Medical Center
1997-1999	Chief Medical Officer Pediatric Critical Care Management Group
1997-1999	Board Member, Pediatric Management Group
1997-2001	Interim Division Head, Division of Neonatology Women's and Children's Hospital USC School of Medicine Keck School of Medicine

1998- Present	Course Director/ Moderator Continuing Medical Education Division of Neonatology University of Southern California Keck School of Medicine
1999-Present	Course Director Neonatology Clerkship for Medical Students Keck School of Medicine
2001-2003	Chair, Department of Pediatrics Good Samaritan Hospital, University of Southern California
2001 – Present	Section Head, Division of Neonatal Medicine LAC/USC Medical Center Women’s And Children’s Hospital & Childrens Hospital Los Angeles University of Southern California Keck School of Medicine
2002- Present	Director, Neonatology Fellowship Program LAC/USC Medical Center Women’s And Children’s Hospital Keck School of Medicine, USC http://www.usc.edu/schools/medicine/departments/pediatrics/divisions/neonatal/education/fellowship.html
2003-Present	Associate Division Chief, Division of Neonatal Medicine LAC/USC Medical Center Women’s And Children’s Hospital & Childrens Hospital Los Angeles University of Southern California Keck School of Medicine http://www.doctorram.com/
2005- Present	Vice Chair, Department of Pediatrics Good Samaritan Hospital, University of Southern California Keck School of Medicine

SOCIETY MEMBERSHIPS:

Local Societies

Member, Western Society for Pediatric Research – 1994-Present
Member, South Western Pediatric Society, 1997-Present
Member, California Association of Neonatologists, 1997-Present
Member, Los Angeles Academy of Medicine, 1998-Present
Program Committee Member, Current Topics & Controversies in Perinatal/Neonatal Medicine, 1999

National Societies

Fellow of the American Academy of Pediatrics – 1987-Present
Fellow of the American Thoracic Society – 1988-Present
Member, Section on Perinatal Pediatrics – 1990-Present
Member, Steering committee, Neonatal Resuscitation Program (NRP) Research Advisory Workgroup, 1999
Executive Member, AAP District IX, Chapter 2, Second Term 1998-2000
Member, American Pediatric Society (APS), 2002-Present

D. Hospital Committee Memberships/ Appointments:

1. Member, Quality Assurance and Value Improvement Committee
LAC+USC Medical Center, Women's & Children's Hospital, 1988-present
2. Member, Bioethics Committee, LAC+USC Medical Center, Women's & Children's Hospital, 1988-present
3. Member, Pharmacy & Therapeutics Committee, Good Samaritan Hospital, Keck School Member, USC 1989-present
4. Member Infection Control Committee, Good Samaritan Hospital, USC School of Medicine, 1989-present
5. Member, Bioethics Committee, Good Samaritan Hospital, USC School of Medicine, 1989-present
6. Member, Perinatal Committee, Good Samaritan Hospital, Keck School of Medicine, USC 1989-present
7. Member, Respiratory Care Committee, LAC+USC Medical Center, Women's & Children's Hospital, 1988-present
8. Member, Blood Transfusion Committee, LAC+USC Medical Center, Women's & Children's Hospital, 1988-2000
9. Member, Laboratory Committee, LAC+USC Medical Center, Women's & Children's Hospital, 1988-1999
10. Member, Peer Review Committee, Department of Obstetrics and Gynecology, LAC+USC Medical Center, Women's & Children's Hospital, 1988-2000
11. Chairman, Multidisciplinary Committee
Childrens Hospital Los Angeles, 1997-1999
12. Member, ECMO Service, Childrens Hospital Los Angeles, 1996-Present
13. Member, Continuous Quality Improvement Committee
Childrens Hospital Los Angeles, 1997-1995
14. Chair, Reengineering Committee, Newborn Division, Dept. of Pediatrics
Women's and Children's Hospital, 1994-1995

15. Member, Multidisciplinary Team, Good Samaritan Hospital, 1989-present.
16. Moderator, Mortality and Morbidity Conference,
Presbyterian Intercommunity Hospital, 1994-2000
17. Consultant, San Gabriel Valley Medical Center, 1992
18. Consultant, Queen of Angels/Hollywood Presbyterian Medical Center, 1992
19. Member, Parenting Project Advisory Committee, 1998
20. Consultant, Center for Pediatric Health Outcomes Research – C. PHOR, 1998
21. Member, Volunteer Professionals for Medical Advancement, Jet Propulsion Laboratory,
1998-present
22. Member, Pediatric Residents Admissions Interview Panel, Dept. of Pediatrics,
Women’s and Children’s Hospital, Keck School of Medicine, 1992-present
23. Member, Medical Executive Committee, Good Samaritan Hospital, Keck School
Medicine, USC, 2001-present
23. Member, Utilization Review Committee, Good Samaritan Hospital, Keck School of
Medicine, USC, 2001-present
24. Member, Critical Care Committee, Good Samaritan Hospital, Keck School of
Medicine, USC, 2001-present
25. Member, Task Force – Consolidation of NICUs, Los Angeles County, Dept. of Health
Services, 2002

E. Organizing Committee Member and Faculty:

Evidence Vs Experience in Neonatal Practices, Annual CME conference, jointly sponsored by Annenberg Center for Health Sciences at Eisenhower, Akita biomedical Consulting and USC Keck School of Medicine 2003-present.

F. International Organizing Committee Member and Faculty:

Curosurf Clinical Club for the Eastern European Countries, Sponsored by Torrex-Chiesi Pharma, Vienna, **Austria** 2005-present

Invited Reviewer:

Pediatrics
Journal of Pediatrics
Journal of Perinatology
Biology of the Neonate
European Journal of Pediatrics

Editorial Board Member:

The Journal of Maternal - Fetal and Neonatal Medicine
Journal of Pediatrics and Neonatology

Research Activities:

Complete Bibliography Appended

Major Areas of Research Interest:

- Surfactant Therapy for RDS and ARDS

- Noninvasive modes of Neonatal Ventilation
- Cardiorespiratory monitoring
- Prevention of acute and chronic lung injury
- Molecular basis for lung injury
- Study of respiratory control disorders in newborn infants
- Pathophysiology of refractory hypotension in neonates

Research Focus: Role of inflammatory cytokines in acute and chronic lung injury

Research Grants - Funded

1. Prophylactic and rescue treatment with artificial surfactant of premature infants with Respiratory Distress Syndrome.
Co-principal investigator
Burroughs Wellcome, (1987-1990) \$172,500
2. Two-year follow-up study of infants treated with artificial surfactant.
Co-principal investigator
Burroughs Wellcome, (1990-1991) \$16,000
3. North American Multicenter Trial of 3 v 6 Doses of Exosurf Neonatal in Infants Either at Risk for or with Early Established Respiratory Distress Syndrome and with Birth weight ≥ 500 gram and <750 grams.
Principal Investigator
Burroughs Wellcome, (1991-1992) \$12,000
4. North American Multicenter Trial of the Effect of two dosing regimens of Exosurf Neonatal on Alveolar - Arterial oxygen tension gradient improvement in larger infants with established respiratory distress syndrome.
Principal Investigator
Burroughs Wellcome, (1991-92) \$12,358
5. Collaborative Home Infant Monitoring Evaluation (C.H.I.M.E.) NICHD (RFA -910HD-02)
Co-investigator
National Institute of Child Health & Human Development 09-30-91 to 09-29-96,
5U10HD29060-04 (1994-1995) \$1,954,456
5U10HD29060-05 (1995-1996) \$868,589
6. Collaborative Home Infant Monitoring Evaluation (C.H.I.M.E.) NICHD
Co-Investigator
5U10HD29060-06
1996-1997 \$718,761
5U10HD29060-07 \$642,780
7. High Risk Infant Follow-up Program. Hospital of the Good Samaritan
Principal Investigator and Program Director
James Irvine Foundation, (1989-1992) \$339,518
8. ATOSIBAN L91-049 Study Two year Infant Safety Follow-up Program.
Principal Investigator
R.W. Johnson Pharmaceutical
Research Institute, (1992-1996). \$33,122.29
9. Partial Liquid Ventilation with AF0141 (Sterile Perflubron): A pilot safety and efficacy study in premature newborns with severe RDS who have failed conventional therapy with exogenous surfactant.

	Co-investigator Alliance Pharmaceutical Corporation 1(993-94)	\$11,750
10.	A phase III randomized, double-blinded, placebo-controlled trial of monthly respigam (RSVIG-IV) for reduction of the rate of RSV hospitalization in premature infants and infants with bronchopulmonary dysplasia. Protocol # MI-RSV-9401 Co-Investigator Med-Immune, Inc. (1995-1996)	\$39,442
11.	Multicenter Phase III Trial of Recombinant Human Granulocyte - Macrophage Colony-Stimulating Factor (rhu GM-CSF) for Prophylaxis of Neonatal Nosocomial Infection. Immunex Protocol 0001-0005. Co-Investigator Immunex Corporation, (1994-1997).	\$40,000
12.	A Multicenter Phase III study to evaluate the long-term safety of Recombinant Human Granulocyte-Macrophage Colony-Stimulating Factor (rhu GM-CSF) in the first month of life for prophylaxis of neonatal nosocomial infection. Principal Investigator Protocol 001.0006. Immunex Corporation (1996-1998)	\$42,500
13.	A Pivotal Phase III Study of MEDI-493, A humanized respiratory syncytial virus monoclonal antibody, for the prophylaxis of severe RSV disease in premature infants and infants with bronchopulmonary dysplasia (BPD). Co-Investigator Protocol # MI-CP018. Immunex Corporation (1996-1998)	\$29, 875
14.	The Safety and Efficacy of r-h CuZn SOD to prevent bronchopulmonary dysplasia when administered intratracheally to premature neonates with respiratory distress syndrome. A Phase III Multiple Dose Study. Protocol 95-003. Principal Investigator Bio-Technology General Corp. (1997-1999)	\$ 72,000
15.	Early non-tidal ventilation in premature infants. Neonatal Ventilation Study Group 1998-2001 Camden, New Jersey Principal Investigator	\$ 48,000
16.	Comparison of Curosurf vs. Survanta for the treatment of respiratory distress syndrome in preterm infants. 1999-2002 Dey Pharmaceuticals Principal Investigator	\$ 20,000
17.	Biosynexis Staphylococcus Epidermidis Phase II study 2003 – 2005 Principal Investigator	\$15,000

Multicenter Research - Non-Funded:

1. Partial Liquid Ventilation (PLV) with sterile Perflubron in near-term and term infants (BW >2kg) and gestational age > 34 weeks) with severe diffuse lung disease. IND#42,317.
Principal Investigator, 1996-1998.
2. Partial Liquid Ventilation with sterile perflubron in preterm infants (BW 600-2000 gms) with severe respiratory failure. IND#44,076.
Principal Investigator, 1996-1998.

Current Funding:

1. Dey L.P., and Chiesi Farmaceuti \$ 570,500
NIPPV study. Multicenter, Randomized trail
Principal Investigator and Trial Director 2006-2009