

Philippe Friedlich MD
Assistant Professor of Clinical Pediatrics
University of Southern California
Division of Neonatal Medicine

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Professional Background:

Academic Appointment:

Assistant Professor of Clinical Pediatrics, University of Southern California .1998-present.

Clinical Appointment:

Clinical Instructor of Pediatrics, University of Southern California.
1995-1998.

Specific teaching responsibilities:

Lectures in Neonatology for Interns, Residents, Fellows, 1995-present.

Neonatal Lectures: Weekly neonatal conference for Pediatrics residents, fellows and attendings at Childrens Hospital Los Angeles. 2000-present.

Neonatal Resuscitation: Regional Instructor ID 6020329. 1996-

Specific Administrative Responsibilities:

Section Head, CHLA Operations
USC Division of Neonatal Medicine
Childrens Hospital Los Angeles, 9/2003-present

Medical Director, Center for Newborn and Infant Critical Care
USC Division of Neonatal Medicine
Childrens Hospital Los Angeles, 2002-present

Associate Medical Director, Education
Division of Neonatology
Childrens Hospital Los Angeles, 2001-2002

Childrens Hospital California Perinatal Quality Care Collaborative
(CPQCC) and Vermont Oxford Network (VON): Coordinator.
Childrens Hospital Los Angeles, 1/2001-present.

Pharmacy and Therapy Committee: Member.
Childrens Hospital Los Angeles, 2000-present.

Committee on Interdisciplinary Practice: Member.
Childrens Hospital Los Angeles, 1998-present.

Committee on Quality Improvement: Member.
Childrens Hospital Los Angeles, 1998-present.

ECMO Committee: Member.
Childrens Hospital Los Angeles, 1998-present.

Department of Pediatrics Performance Improvement (PI) Committee;
Member. Childrens Hospital Los Angeles, 2001-present

Committee on Antimicrobial Utilization: Member
Childrens Hospital Los Angeles, 2001-present

Critical Care Services Functional Project Team (FPT): Member,
Childrens Hospital Los Angeles, 2001.

Inhaled Nitric Oxide Functional Project Team: Member.
Childrens Hospital Los Angeles, 2000.

CPR Committee: Member
Childrens Hospital Los Angeles, 2003-present.

Society Membership:

Western Society of Pediatrics Research, 2001-
Fellow American Academy of Pediatrics, 1996-
American Medical Association 1992-
California Association of Neonatologist, 1998-
AAP Section on Perinatal Pediatrics, 1999-

Los Angeles County Medical Association, 2001-
American College of Physician Executives, 2001-

Consultantships:

National: Member of the Editorial Advisory Board. Neonatal Intensive Care Journal, 2000-

Speaker's Bureau:

Med Immune Inc.
INO Therapeutics Inc.

Research Activities:

Major Areas of Research Interest: Neonatal Respiratory Failure
Neonatal Pulmonary Hypertension

Current Research:

Principal Investigator: Term Neonatal Intensive Care Unit
Admissions: Accuracy of Administrative Data

Co-Investigator: I) Use of a MRI Compatible Incubator with a build-in Radiofrequency Coil to Perform MR Examination in Neonates and Small babies. II) Clinical Evaluation of Pulse Oximetry Equipment: Nellcor, *MAX-FAST* and *SoftCare* Oxygen Sensors.. III) Touch Therapy for Hospital Children. IV) Determination of the Lower Limits of Normal Blood Pressure in Critically Ill Neonates with Sepsis Syndrome or the Need for ECMO.

Research Grants in Past Five Years

Non-radiographic weaning of mean airway pressure during high frequency oscillatory ventilation in adult New Zealand rabbits. Co-investigator
SensorMedics Corporation (\$7580.00)

Invited Papers and Presentations:

1) First European Conference on High Frequency Ventilation, Belgium, November 1997. Non Radiographic Weaning of Mean Airway Pressure During HFOV in Adult New Zealand Rabbit Using the Respiratory

Inductive Plethysmograph (RIP). C. Lecart, P. Friedlich, M.Garg, J. Berkeland, A. Stenzler and R.A. deLemos.

2) Fourteen Conference on High Frequency Ventilation of Infants and Children. Snowbird, Utah, April 1997. The Combined use of Intermittent Mandatory Ventilation (IMV) and Nasopharyngeal CPAP (NP-CPAP) in Premature Infants Following Extubation . C Lecart M.D., P Friedlich M.D., R Ramanathan M.D., R deLemos M.D.

3) Society for Pediatric Research, Washington D.C., May 5, 1997. Poster/ Symposium: Nosocomial Infections. Renal Tolerance with the Use of Intralipid Amphotericin B in Low Birthweight Neonates. Philippe Friedlich M.D., Irving Steinberg Pharm.D., Adrian Fujitani Pharm.D. and Robert deLemos M.D.

4) American Academy of Pediatrics Annual Meeting, New Orleans, November 1, 1997. Poster Session on Perinatal Pediatrics. Differences in Resuscitative Needs and Outcome After Cesarean Delivery in Infants with Fetal Distress versus Infants without Fetal Distress. R. Posen D.O., P. Friedlich M.D., F.A.A.P., L. Chan Ph.D., D. Miller M.D., F.A.C.O.G.

5) Western Society for Pediatric Research, Carmel California, February 7, 1998. The Combined use of Intermittent Mandatory Ventilation (IMV) and Nasopharyngeal CPAP (NP-CPAP) in Premature Infants Following Extubation. C Lecart M.D., P Friedlich M.D. R Ramanathan M.D., R deLemos M.D.

6) Western Society for Pediatric Research, Carmel California, January 29, 1999. Decreased Incidence of Post-extubation Respiratory Failure in Very Low Birthweight Infants: A Randomized Trial of Nasopharyngeal Continuous Positive Airway Pressure (NP-SIMV) versus Nasopharyngeal Continuous Positive Airway Pressure (NP-CPAP). P. Friedlich, C Lecart, R Posen, E Ramicone, L Chan, R Ramanathan

7) Sixteen Conference on High Frequency Ventilation of Infants and Children. Snowbird, Utah, April 1999. Pressure Regulated Volume Controlled Ventilation in Newborn Infants: Early Clinical Experience from a Tertiary Center. A Pelayo, N Subramanian, M Garg, C Lecart, P Friedlich, R Ramanathan

8) Society of Pediatric Research, San Francisco, CA. May 1, 1999. Decreased Incidence of Post-extubation Respiratory Failure in Very Low Birthweight Infants: A Randomized Trial of Nasopharyngeal Continuous Positive Airway Pressure (NP-SIMV) versus Nasopharyngeal Continuous

Positive Airway Pressure (NP-CPAP). P Friedlich, C Lecart, R Posen, E Ramicone, L Chan, R Ramanathan.

9) Western Society for Pediatric Research, Carmel California, February 10, 2001. Marked Reduction in Mean Airway Pressure and Oxygenation Index Using High Frequency Jet Ventilation in Neonates with Refractory Hypoxemic Respiratory Failure. P Friedlich, N Subramanian, M Garg.

10) Western Society for Pediatric Research, Carmel California, February 10, 2001. Ventilatory Mean Airway Pressure Within Twenty-Four Hours of Surgery Predicts Mortality in Neonates with Surgical Necrotizing Enterocolitis. E. Island, P Friedlich, J Acosta, G Tio, J Stein, K Anderson.

11) Eighteen Conference on High Frequency Ventilation of Infants and Children. Snowbird, Utah, April 2001. Marked Reduction in Mean Airway Pressure and Oxygenation Index Using High Frequency Jet Ventilation in Neonates with Refractory Hypoxemic Respiratory Failure. P Friedlich, N Subramanian, M Garg.

12) Society of Pediatric Research, Baltimore Md. April 28, 2001. Inhaled Nitric Oxide for Neonatal Persistent Pulmonary Hypertension is Safe and Effective Beyond Seven Days of Therapy. P Friedlich, K. Wilkinson, N. Subramanian, M. Garg.

13) Congenital Diaphragmatic Hernia with Omphalocele: A review of the ELSO Registry. A Garingo, P Friedlich, N Subramanian, S Bugsch, M Blahnik, S Noori, R Ramanathan, J Stein, I Seri. Journal of Investigative Medicine. Feb 2003, 51, 166.

14) Use of Magnetic Resonance-Compatible Incubator with Integrated Radiofrequency Head Coil for Neonatal Magnetic resonance Imaging. L Tesorio. P Friedlich, S Ghods, M Blahnik, R Ramanathan, I Seri, M Nelson and S Bluml. Journal of Investigative Medicine. Feb 2003, 51, 282.

15) Alveolar Capillary Dysplasia: A Diagnostic Dilemma Shin CE, Busch S, Subramanian N, Friedlich P, STEIN J. Keystone ECMO Meeting. Feb 2003.

16) Functional MRI of Preterm Neonates Using MR Compatible Incubator. Erberich S, Friedlich P, Seri I, Nelson D, Bluml S. SPR 2003 Seattle.

17) Risk of Need for Extracorporeal Membrane Oxygenation Support in Neonates with Congenital Diaphragmatic Hernia Treated with Nitric Oxide. M Sebald M.D., P. Friedlich M.D., C Burns M.D., J Stein M.D., S Noori M.D.¹, R Ramanathan MD., I Seri M.D., Ph.D. WSPR. Carmel January 30, 2004

Invited Lectures:

- 1) Intraventricular Hemorrhage. Fellows Conference, LAC-USC Medical Center Department of Pediatrics, Division of Neonatology. March 14, 1996
- 2) Fungal Infection In The Neonatal Period. Fellows Conference, LAC-USC Medical Center. Department of Pediatrics, Division of Neonatology. February 18, 1997
- 3) Fungal Infection In The Neonatal Period. Southwestern Pediatric Society April 16, 1997.
- 4) Continuous Distending Pressure Ventilation. Fellows Conference, LAC-USC Medical Center. Department of Pediatrics, Division of Neonatology October 28, 1997
- 5) The Combined use of Intermittent Mandatory Ventilation (IMV) and Nasopharyngeal CPAP (NP-CPAP) in Premature Infants Following Extubation Southwestern Pediatric Society. March 18, 1998
- 6) ECMO Course. Children Hospital Los Angeles, March 1999
Respiratory failure in Newborn Infants
- 7) Non-Invasive Ventilation in Newborns. Fellows Conference, LAC-USC Medical Center. Department of Pediatrics, Division of Neonatology. June 22, 1999
- 8) Role of CPAP in Newborn Infants. San Gabriel Medical Center. June 25, 1999
- 9) Transition of Care from the NICU to the Pediatric Practice. Pediatric Resident Noon Lecture Series. Childrens Hospital Los Angeles. January 18, 2000
- 10) Intraventricular Hemorrhage in the Preterm Infant. Mortality and Morbidity Conference. San Gabriel Medical Center. February 17, 2000
- 11) Non-Invasive Ventilation in Newborns. Pediatric Resident Noon Lecture Series Childrens Hospital Los Angeles. March 6, 2000
- 12) Neonatal Sepsis. Educational conference. Providence Saint-Joseph Medical Center. April 11, 2000

- 13) Non-Invasive Ventilation of the Newborn. Fifteen Annual Symposium and Respiratory Managers Conference. Clinical Advances in Respiratory Care Childrens Hospital Los Angeles & Queen of Angels-Hollywood Presbyterian Medical Center. May 6, 2000
- 14) Common Issue in Neonatology. Surgical Division Conference Childrens Hospital Los Angeles. August 2000
- 15) ECMO Course. Childrens Hospital Los Angeles, September 2000
Respiratory failure in Newborn Infants
- 16) Advanced life support for neonatal respiratory failure.
Grand Rounds-Childrens Hospital Los Angeles, Feb 23, 2001.
- 17) Transition of Care from the NICU to the Pediatric Practice. Pediatric Resident Noon Lecture Series. Childrens Hospital Los Angeles. March 14, 2001.
- 18) Advanced life support for neonatal respiratory failure. Kaiser Permanente Panorama City. Pediatric Department, May 11, 2001
- 19) Panel Discussion: Talking to parents of a dying infant.
Childrens Hospital Los Angeles, July, 16 2001
- 20) Therapeutic Intervention for Neonatal PPHN. Presented at the conference on Nitric Oxide, Childrens Hospital Los Angeles. October 4, 2001.
- 21) The premature Infant: Lecture Series. Childrens Hospital Los Angeles Feb 11, 2002.
- 22) Advanced life Support in the Newborn. Pediatric Grand Rounds. Womens and Childrens Hospital LAC-USC Medical Center. Los Angeles California. April 9, 2002.
- 23) Neonatal Ventilation: Matching Strategy to Physiology. National Conference of Neonatal Nursing. Anaheim California April 19, 2002.
- 24) Alveolar Capillary Dysplasia. ECMO class. Childrens Hospital Los Angeles. April and May 2002.
- 25) Congenital Diaphragmatic Hernia. Fellows Conference LAC-USC Medical Center. Department of Pediatrics, Division of Neonatology. May 28, 2002.

- 26) Persistent Pulmonary Hypertension of the Newborn. Kaiser Sunset. June 26, 2002
- 27) Congenital Diaphragmatic Hernia. . Kaiser Sunset. June 26, 2002.
- 28) The premature Infant: Lecture Series. Childrens Hospital Los Angeles August 12, 2002.
- 29) Diaphragmatic Hernia: From the DR to the OR. California Association of Academic Neonatologist . Childrens Hospital Orange County. September 2002.
- 30) Advanced life support for neonatal respiratory failure. Garfield Medical Center. April 22, 2003.
- 31) Congenital Diaphragmatic Hernia: CHLA Transport Department Mortality and Morbidity Meeting. CHLA July 9, 2003.
- 32) Neonatal Ventilation. Anesthesia Grand Round. Childrens Hospital Los Angeles. August 7, 2003.
- 33). The premature Infant: Pediatric Residency Program. Childrens Hospital Los Angeles August 7, 2003.
- 34) RSV Infection: The CHLA experience. Sponsored by Medimmune Inc. September 2003
- 35) Management of neonatal respiratory failure. NICU Nursing Internship. CHLA September 2003.
- 36) High Frequency Ventilation. NICU Nursing Internship. CHLA September 2003.
- 37) Pre-ECMO Management. Childrens Hospital Los Angeles. ECMO Course October 6, 2003.
- 38) Veno Arterial ECMO. Childrens Hospital Los Angeles. ECMO Course October 6, 2003.