

CURRICULUM VITAE

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BUSINESS ADDRESS

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HOME ADDRESS

[REDACTED] (b)(6)

BIRTHDATE

[REDACTED] (b)(6)

BIRTHPLACE

Boston, MA

CITIZENSHIP

United States of America

SPOUSE

[REDACTED] (b)(6)

CHILDREN

[REDACTED] (b)(6)

EDUCATION

Institution	Degree	Year Granted
Princeton University, Princeton, NJ	A.B., English Literature	1979
Johns Hopkins University, Baltimore, MD	M.D.	1983

PROFESSIONAL TRAINING AND EXPERIENCE

1983-1984	Contract Physician, Wardenburg Student Health Center University of Colorado, Boulder, CO (Concurrent training for Olympic Trials Marathon)
1984-1987	Pediatric Residency The Children's Hospital of Philadelphia Philadelphia, PA
1987-1988	Registrar in Pediatrics, Professorial Unit The Hospital for Sick Children, Great Ormond Street London, ENGLAND

1988-1989	Staff Pediatrician, Fort Defiance Indian Hospital Lieutenant, US Public Health Service Fort Defiance, AZ
1989-1991	Chief of Pediatrics, Fort Defiance Indian Hospital Lieutenant Commander, US Public Health Service Fort Defiance, AZ
1991-1994	Instructor and Fellow in Neonatology University of Rochester School of Medicine and Dentistry Rochester, NY
1994-1995	Senior Instructor in Neonatology University of Rochester School of Medicine and Dentistry Rochester, NY
1995-2001	Assistant Professor of Pediatrics (Neonatology) University of Rochester School of Medicine and Dentistry Rochester, NY
2001-present	Associate Professor of Pediatrics (Neonatology) University of Rochester School of Medicine and Dentistry Rochester, NY
2003-present	Director, Pediatric Clinical Research Office Department of Pediatrics University of Rochester School of Medicine and Dentistry Rochester, NY
2003-present	Associate Director, Strong Children's Research Center Department of Pediatrics University of Rochester School of Medicine and Dentistry Rochester, NY
2007-present	Director, Neonatal Clinical Research Division of Neonatology, Department of Pediatrics University of Rochester School of Medicine and Dentistry Rochester, NY
2008	Fellow, Clinical Ethics Program Center for Ethics, Humanities, and Palliative Care University of Rochester School of Medicine and Dentistry Rochester, NY

2008-present Associate Professor of Medical Humanities
University of Rochester School of Medicine and Dentistry
Rochester, NY

NATIONAL SERVICE

1988-1991 United States Public Health Service Commissioned Officer Corps
1991-2010 United States Public Health Service Reserve (Captain)

HONORS AND AWARDS

High Honors in English Literature, Princeton University, 1979
The PHS Citation, US Public Health Service, 1990
Bicentennial Unit Commendation, US Public Health Service, 1998
Buswell Fellowship Award, University of Rochester, 1999-2000
“Best Doctors in America,” 2004-2010
“Guide to America’s Top Pediatricians,” 2004-2005, 2007, 2010
“Who’s Who in America,” 2008-2009
“Who’s Who in Medicine and Healthcare,” 2009-2010
“America’s Top Doctors,” 2009

MEDICAL LICENSURE

1984-present Pennsylvania (inactive)
1991-present New York

BOARD CERTIFICATION

1984 Federal Licensing Examination, #570327007
1989-2011 American Board of Pediatrics, #039797, 211916
1995-2012 Neonatal-Perinatal Medicine, #002847, 211916

CURRENT MEMBERSHIP IN PROFESSIONAL SOCIETIES

1991-present American Academy of Pediatrics
1999-present Society for Pediatric Research
2003-present American Academy of Pediatrics, Section on Perinatal Pediatrics
2007-present American Academy of Pediatrics, New York Chapter
2007-present Perinatal Research Society

UNIVERSITY COMMITTEE MEMBERSHIPS

2001-2004 Member, Board 01, University of Rochester Research Subjects Review Board
2004-2010 Associate Chair, Board 01, Univ of Rochester Research Subjects Review Board
2006-present University of Rochester Faculty Senate Research Policy Committee
2009-present University of Rochester Clinical Research Review Process Improvement Team

2010-present Associate Chair, Board 05, Univ of Rochester Research Subjects Review Board

RESEARCH INTERESTS

Neonatal Infection and Immunity
Pulmonary Inflammation and Injury

MAJOR MEDICAL PRACTICE

Neonatology

CURRENT MAJOR RESEARCH ACTIVITIES

Immunologic response of extremely premature infants to immunizations
Neonatal infection
Premature infant respiratory immunology and outcomes
Enhancement of premature infant language development

GRANT SUPPORT

Extramural

- 1989-1990 Indian Health Service Research Grant #90-01, "Long term outcome of Navajo children following *Haemophilus influenzae* meningitis."
- 1992-1994 National Research Service Award in Pulmonary Biology (Institutional) #5-T32-HL07216-18.
- 1995 National Research Service Award in Molecular Biology (Individual) #1-F32-HL09022-01, "Proinflammatory cytokines in oxygen injured rabbit lung."
- 1997-1999 American Heart Association, New York Affiliate, Grant-in-Aid Beginning #970142, "Oxygen regulation of chemokines in the alveolar macrophage."
- 1997-2002 National Heart Lung and Blood Institute, Mentored Clinical Scientist Development Award #1 K08 HL03493-01A1, "Chemokine regulation in pulmonary oxygen injury."
- 1998-2007 National Institute of Allergy and Infectious Diseases, University of Rochester Vaccine and Treatment Evaluation Unit, "Evaluation of control measures against infectious disease other than AIDS," N01-AI-25460, investigator.
- 2001-2006 National Institute of Child Health and Human Development, University of Rochester Neonatal Research Network Center, 5 U10-HD40521, alternate.
- 2002-2006 National Institute of Child Health and Human Development, Neonatal Research Network, 5 U10-HD40521, "Observational study of the immunogenicity of heptavalent pneumococcal conjugate vaccine in very-low-birth-weight infants," principal investigator.

- 2002-2007 National Institute of Allergy and Infectious Diseases, University of Rochester Vaccine Treatment Evaluation Unit, N01-AI-25460, “MMR and varicella vaccine responses in extremely premature infants,” principal investigator.
- 2007-2009 Thrasher Research Fund, “Influenza Vaccine Immunogenicity in Extremely Premature Infants,” principal investigator.
- 2008-2013 National Institute of Child Health and Human Development, National Children’s Study, investigator.
- 2009-2010 National Institute of Allergy and Infectious Diseases, Clinical Trials Planning Grant, R34-AI080845, “Controlled Trial of Live Attenuated Influenza Vaccine in Very Premature Infants,” principal investigator.
- 2009-2014 National Heart, Lung and Blood Institute, R01 HL097141-01, “Neonatal oxygen and susceptibility to respiratory viral infections,” investigator.
- 2010-2015 National Heart, Lung and Blood Institute, U01 HL101813-01, Prematurity and Respiratory Outcomes Program (PROP), investigator.

Intramural

- 1995-1996 University of Rochester General Clinical Research Center Protocol #528, “Follow-up of immunologic response to vaccines in extremely premature infants.”
- 1998-2000 Strong Memorial Hospital Innovative Improvement Grant #523, “New mode of ventilation for premature infants” (co-investigator).
- 1998-2001 University of Rochester General Clinical Research Center Protocol #687, “Six- to seven-year follow-up of vaccine response in extremely premature infants.”
- 1998-2001 University of Rochester Vaccine Treatment Evaluation Unit of National Institute of Allergy and Infectious Diseases, “Six- to seven-year follow-up of vaccine response in extremely premature infants.”
- 1998-2004 Strong Memorial Hospital Innovative Improvement Grant #563, “Randomized controlled trial of the safety of umbilical venous vs. percutaneous central venous lines in premature infants,” (co-investigator).
- 1998-2005 University of Rochester General Clinical Research Center, “New mode of ventilation for premature infants,” (co-investigator).
- 1998-present University of Rochester General Clinical Research Center Protocol #650, “Randomized controlled trial of the safety of umbilical venous vs. percutaneous central venous lines in premature infants.”

- 1999-2000 Strong Children's Research Center Grant, "Prevention of neonatal lung injury using pentoxifylline."
- 2006-2008 University of Rochester General Clinical Research Center Protocol #1134, "Influenza vaccine immunogenicity in extremely premature infants – clinical study."
- 2007-2008 Strong Children's Research Center Grant, "Chlorhexidine and the prevention of central catheter related infections in neonates," (co-investigator).
- 2007-present University of Rochester Clinical Research Center Protocol #1187, "Influenza vaccine immunogenicity in extremely premature infants, 2007-2008 study."
- 2008-2011 University of Rochester Clinical and Translational Science Institute Laboratory Support Center, "Immune responses in preterm and full-term infants following live, attenuated influenza vaccination."

EDITORIAL ACTIVITIES

Editorial Board

Pediatric Health (2007 – 2010)

Invited Reviewer

American Journal of Perinatology
American Journal of Physiology
American Journal of Preventive Medicine
Archives of Disease in Childhood
BioMed Central Pediatrics
Journal of Pediatrics
Journal of Perinatology
Neonatology
Medical and Pediatric Oncology
Memorias do Instituto Oswaldo Cruz
Pediatric Infectious Disease Journal
Pediatric Pulmonology
Pediatric Research
Pediatrics
Pediatrics in Review
Society for Pediatric Research
Vaccine

CONSULTATIONS TO UNIVERSITIES, HEALTH, AND SCIENCE AGENCIES

- 1989-present Examination question writer, Program for Renewal of Certification in Pediatrics, American Board of Pediatrics

- 1999 Ad hoc grant reviewer, United Sheffield Hospitals' Charitable Funds Medical Research Committee
- 2000-2001 Mid-Hudson Health Perinatal Conference Steering Committee
- 2000-2004 Advisory Group, American Thoracic Society Education Committee
- 2002 Ad hoc grant reviewer, Alberta Heritage Foundation for Medical Research
- 2002-2006 NICHD Neonatal Research Network Steering Committee, alternate
- 2003 Ad hoc grant reviewer, Ireland Health Research Board/HPSS Northern Ireland R&D Office
- 2003 Ad hoc grant reviewer, Jeffress Memorial Trust
- 2003-2006 Data Safety and Monitoring Board, "Pregnancy Outcomes and Periodontal Therapy (OPT) Trial," NIH/NIDCR R01 DE14338
- 2003-2009 Data Safety and Monitoring Board, "Maternal Oral Therapy to Reduce Obstetric Risk (MOTOR) Trial," NIH/NIDCR
- 2005-present Data Safety and Monitoring Board, "Effects of Massage on Immune System of Preterm Infants," NIH/NCCAM R21 AT001872
- 2005-2009 Grant review committee, New York State Empire Clinical Research Investigator Program
- 2005 Ad hoc grant reviewer, Canadian Institutes of Health Research
- 2006 Ad hoc grant reviewer, Wellcome Trust
- 2006 Ad hoc grant reviewer, NIH/NHLBI Clinical Trials Review Committee
- 2006-present Chair, Premature Infant Vaccine Collaborative
- 2008-present Member, US Food and Drug Administration Pediatric Advisory Committee
- 2008-present Chair, Data Safety and Monitoring Board, "Intravenous Omega-3 Fatty Acid Emulsion (Omegaven) in Total-Parenteral-Nutrition-Related Cholestasis - A Compassionate Use Protocol"
- 2008 Moderator, Mid-Atlantic Conference on Perinatal Research
- 2009 Member, NIAID Ancillary Studies in Immunomodulation Clinical Trials Special Emphasis Panel

TEACHING/TRAINING ACTIVITIES

- 1989-present American Heart Association/American Academy of Pediatrics
Neonatal Resuscitation Program, Regional Instructor Trainer, ID No. 1151385
- 1995-1996 Associate Fellowship Director
Division of Neonatology
University of Rochester School of Medicine and Dentistry
Rochester, NY
- 2001-2006 “Genes to Generations” medical student course
Pulmonary biology lecturer
University of Rochester School of Medicine and Dentistry
Rochester, NY
- 2003-present Pediatric Fellows’ core lecture series
Statistics lecturer
University of Rochester School of Medicine and Dentistry
Rochester, NY
- 2005-present Research Ethics/Integrity (IND 503)
Session facilitator
University of Rochester School of Medicine and Dentistry
Rochester, NY
- 2007-present Pediatric Faculty Teaching Attending
University of Rochester School of Medicine and Dentistry
Rochester, NY

Trainees

Primary

- 1996-1998 Rubia Khalak (neonatal fellow): Three year follow-up of vaccine response in extremely premature infants.
- 1996-1998 Jayakrishna Ambati (ophthalmology resident): Vascular endothelial growth factor levels in the vitreous of patients with proliferative diabetic retinopathy and urine of premature infants and diabetics with proliferative retinopathy.
- 1997 Sean Maloney (undergraduate student, independent project): Chemokine production by MLE-15 murine pulmonary epithelial cells.
- 1998-2000 Jennifer Nowobilski (undergraduate student, Strong Children’s Research Center summer program, independent projects, de Kiewiet scholarship and senior thesis): Expression of GRO β in hyperoxic newborn rabbit lung and macrophages.

- 1998-2001 Khaver Kirmani (neonatal fellow): Six- to seven-year follow-up of vaccine response in extremely premature infants.
- 1999-2002 Ruby Varughese (neonatal fellow/Senior Instructor): Prevention of neonatal lung injury using pentoxifylline. Complementation by serum measurements of predictive value of bronchoalveolar lavage cytokines for bronchopulmonary dysplasia.
- 2000-2001 Andrew Brenyo (Strong Children's Research Center summer program): Cytokine expression in co-culture of macrophages, epithelial cells and endothelial cells.
- 2001-2002 Matthew Hjort (neonatal fellow): Cytokine expression in co-culture of macrophages and epithelial cells.
- 2001-2003 Paulina Twumasi (neonatal fellow): MMR and varicella vaccine responses in extremely premature infants.
- 2002 Gerard DeGregoris (Strong Children's Research Center summer program): Particle effects in endothelial culture.
- 2003-2006 Theresa Murray (neonatal fellow): *Haemophilus influenzae* vaccines in premature infants.
- 2004-2006 Indira Panthagani (neonatal fellow): Tracheal agenesis case report.
- 2005-2007 Shalu Narang (hematology/oncology fellow): Thrombosis in umbilical venous catheters.
- 2006-2008 Erik Thingvoll (neonatal fellow): Prevention of infection of central venous catheters.
- 2006-2010 Kristin Scheible (pediatric resident, neonatal fellow): Cell-mediated immunity to influenza in immunized premature infants.
- 2007-2010 Marc Ellsworth (medical student, Strong Children's Research Center summer program): Indications for screening for drugs of abuse in newborn infants.
- 2007-present Margaret Bulanowski (neonatal fellow): Institution and evaluation of "Reach Out and Read" literacy readiness program in a neonatal follow-up clinic.
- 2010-present Christine Trahms (undergraduate): Consent form synopses to improve subject understanding of research.

Secondary

- 1995-1997 Heather Daly (graduate student): Thesis Advisory Committee, Toxicology and Environmental Medicine doctoral program.
- 1995-1998 Rubia Khalak (neonatal fellow): Surfactant therapy in mild respiratory distress syndrome.
- 1995-1998 Lama Charafeddine (neonatal fellow): Hyperoxia alters lung expression of keratinocyte growth factor mRNA in neonatal rabbit. Epidemiology of infants with three patterns of neonatal chronic lung disease.
- 1996 Sofia Chaudhry (undergraduate student, independent project): Detection of IL-8 protein in pulmonary lavage and macrophages from newborn hyperoxic rabbits.

- 1996-1998 Kumar Basavegowda (neonatal fellow): Effect of early postnatal DEX on IL-8 in human tracheal aspirate and deep pulmonary lavage.
- 1997-1999 Saira Waheed (neonatal fellow): KGF mRNA abundance in TGF knockout mice.
- 1997-2000 Imelda Uy (neonatal fellow): Changes in incidence of Group B streptococcal disease in newborns with changes in clinical prophylaxis schemes.
- 1999-2002 Ruby Varughese (neonatal fellow): The role of Golytely in reducing feeding intolerance by increased stooling.
- 2000-2002 Matthew Hjort (neonatal fellow): Predicting right ventricular hypertrophy in bronchopulmonary dysplasia.
- 2000-2003 Joseph Bliss (neonatal fellow): Novel antibody fragments to *C. albicans*.
- 2002-2004 Gary Yuille (neonatal fellow): Indications for discontinuing phototherapy in moderately premature infants.
- 2003-2005 Samir Al Absi (neonatal fellow): Inhaled glucocorticoids in BPD.
- 2004-2008 Erik Thingvoll (neonatal fellow): Gentamicin dosing in premature infants.
- 2007-2010 Elizabeth Scarlett (pulmonary fellow): Scholarship Oversight Committee, Application of respiratory inductive plethysmography to assess bronchodilator response in infants with viral bronchiolitis.
- 2008-present Susan Ciurzynski (nursing PhD student): Thesis Advisory Committee, School of Nursing. An exploratory study of vital signs preceding pediatric cardiopulmonary arrest.
- 2011-present Dana Work (nephrology fellow): Scholarship Oversight Committee, Measurement of renal reserve in children with reduced nephron mass.

INVITED LECTURES (regional, national or international only)

“Thruway” Neonatology Conference. State University of New York, Syracuse, NY. October 20, 1995. “Expression of Chemokine mRNAs by Epithelial Cells in Oxygen Injured Rabbit Lung.”

“Thruway” Neonatology Conference. Albany Medical Center, Albany, NY. October 28, 1998. “Upstate New York Clinical Trials Group.”

Rochester-Ithaca-Buffalo Perinatal Research Program. University of Rochester Medical Center, Rochester, NY. December 5, 1998. “The Role of Chemokines in Acute Lung Injury.”

National Institute of Allergy and Infectious Diseases, Vaccine Treatment Evaluation Unit Investigators’ Meeting. Bethesda, MD. January 19, 1999. “Concept: Pneumococcal Vaccine in Premature Infants.”

Great Lakes Lung Conference, Niagara-on-the-Lake, Ontario, Canada. September 25, 1999. “Cytokine Dynamics in Neonatal Rabbit Chronic Lung Injury.”

Baylor College of Medicine. Houston, TX. February 16, 2000. “Cytokine Dynamics in Neonatal Rabbit Chronic Lung Injury.”

SUNY Buffalo. Buffalo, NY. December 15, 2000. “NFκB, NF-IL-6 and AP-1 Transcription Factors in Oxygen Induction of Interleukin-8 in the Macrophage.”

Townsend Teaching Day. Rochester General Hospital, Rochester, NY. May 15, 2001. “Vaccines in Premature Infants: Theory Meets Practice.”

“Thruway” Neonatology Conference. SUNY Buffalo, Buffalo, NY. October 25, 2001. “Fifteen-year Follow-up of Infants Born in the Surfactant Era.”

Pediatric Academic Societies’ Annual Meeting. Baltimore, MD. May 7, 2002. Session chair, “Inflammation in Lung Injury and Remodeling.”

Rochester Conference in Perinatal Medicine: Labor Management. University of Rochester Medical Center, Rochester, NY. May 10, 2002. “Update on Newborn Resuscitation.”

SUNY Buffalo, Buffalo, NY. February 27, 2003. “Between a Rock and a Hard Place: Vaccine Immunogenicity in Extremely Premature Infants.”

Townsend Teaching Day. Rochester General Hospital, Rochester, NY. April 22, 2003. “Transient Intubation for Surfactant Administration.”

Grand Rounds. University of New Mexico, Albuquerque, NM. June 3, 2004. “Vaccines in Premature Infants: Theory Meets Practice.”

Children’s Hospital of Philadelphia, Philadelphia, PA. October 19, 2004. “Vaccines in Premature Infants: Theory Meets Practice.”

“Thruway” Neonatology Conference. Albany Medical Center, Albany, NY. November 17, 2006. “Measles-mumps-rubella and varicella vaccine responses in extremely premature infants.”

Grand Rounds. Rochester General Hospital, Rochester, NY. January 16, 2007. “Vaccines in Premature Infants: Theory Meets Practice.”

Grand Rounds. Golisano Children’s Hospital at Strong, University of Rochester Medical Center, Rochester, NY. January 17, 2007. “Vaccines in Premature Infants: Theory Meets Practice.”

Contemporary Management of Neonatal Pulmonary Disorders, Phoenix, AZ. November 1-2, 2007. “Transient Intubation for Surfactant Replacement Therapy.” “Pathogenesis and Management of the New BPD.” “Conventional Mechanical Ventilation Strategies in the Very Low Birth Weight Infant.”

18th Annual Neonatology Conference, Nemaquin, PA. February 20, 2009. “Vaccines in Premature Infants: Theory Meets Practice.”

Contemporary Management of Neonatal Pulmonary Disorders, Phoenix, AZ. November 4-5, 2010. "Respiratory Viral Illness in the Premature Infant: Risks and Prevention." "The Ethics of Resuscitation in the "Gray Zone" of Neonatal Viability."

BIBLIOGRAPHY

Original Articles

1. D'Angio C, Ruz J, Eichenberg CS, Varian D. Evaluation of patient advocacy in a major urban emergency room. *Proceedings of the American Statistical Association (Social Statistics Section)* 1980;263-265.
2. D'Angio CT, McGowan KL, Baumgart S, St Geme J III, Harris MC. Surface colonization with coagulase-negative staphylococci in premature neonates. *J Pediatr* 1989; 114:1029-1034.
3. D'Angio CT and Lloyd JK. Nephrocalcinosis in Shwachman's syndrome. *Arch Dis Child* 1989; 64:614-615.
4. St Geme JW III, Bell LM, Baumgart S, D'Angio CT, Harris MC. Distinguishing sepsis from blood culture contamination in young infants with blood cultures growing coagulase-negative staphylococci. *Pediatrics* 1990; 86:157-162.
5. D'Angio CT, Dillon MJ, Leonard JV. Renal tubular dysfunction in methylmalonic acidemia. *Eur J Pediatr* 1991; 150:259-263.
6. D'Angio CT, Sinkin RA, LoMonaco MB, Finkelstein JN. Interleukin-8 and monocyte chemoattractant protein-1 mRNAs in oxygen injured rabbit lung. *Am J Physiol* 1995; 268:L826-L831.
7. D'Angio CT, Maniscalco WM, Pichichero ME. Immunologic response of extremely premature infants to tetanus, Haemophilus influenzae and polio immunizations. *Pediatrics* 1995; 96:18-22.
8. D'Angio CT, Froehlke RF, Plank G, Meehan DJ, Aguilar CM, Lande MB, Hugar L. Long term outcome of Haemophilus influenzae meningitis in Navajo Indian children. *Arch Pediatr Adolesc Med* 1995; 149:1001-1008.
9. Daly H, Baecher-Allen C, Barth R, D'Angio CT, Finkelstein JN. Bleomycin induces strain-dependent alterations in the pattern of epithelial cell-specific marker expression in the mouse lung. *J Toxicol Appl Pharm* 1997; 142:303-310.
10. D'Angio CT, Finkelstein JN, LoMonaco MB, Paxhia A, Wright SA, Baggs RB, Notter RH, Ryan RM. Changes in surfactant protein gene expression in a neonatal rabbit model of hyperoxia-induced fibrosis. *Am J Physiol* 1997; 272:L720-L730.
11. Maniscalco WM, Watkins RH, D'Angio CT, Ryan RM. Hyperoxic injury decreases alveolar epithelial cell expression of vascular endothelial growth factor (VEGF) in neonatal rabbit lung. *Am J Respir Cell Mol Biol* 1997; 16:557-567.

12. Ambati J, Chalam KV, Chawla DK, D'Angio CT, Guillet EG, Rose SJ, Vanderlinde RE, Ambati BK. Elevated gamma-aminobutyric acid, glutamate and vascular endothelial growth factor levels in the vitreous of patients with proliferative diabetic retinopathy. *Arch Ophthalmol* 1997; 115:1161-1166.
13. Khalak R, Pichichero ME, D'Angio CT. Three year follow-up of vaccine response in extremely premature infants. *Pediatrics* 1998; 101:597-603.
14. D'Angio CT, Johnston CJ, Wright TW, Reed CK, Finkelstein JN. Chemokine mRNA alterations in newborn and adult mouse lung during acute hyperoxia. *Exp Lung Res* 1998; 24:685-702.
15. Charafeddine L, D'Angio CT, Richards JL, Stripp BR, Finkelstein JN, Orłowski CC, LoMonaco MB, Paxhia A, Ryan RM. Hyperoxia increases keratinocyte growth factor mRNA expression in neonatal rabbit lung. *Am J Physiol* 1999; 276:L105-L113.
16. Charafeddine L, D'Angio CT, Phelps DL. Atypical chronic lung disease patterns in neonates. *Pediatrics* 1999; 103:759-765.
17. Watkins R, D'Angio CT, Ryan RM, Maniscalco WM. Differential expression of VEGF mRNA splice variants in newborn and adult hyperoxic lung injury. *Am J Physiol* 1999; 20:L858-L867.
18. D'Angio CT, LoMonaco MB, Chaudhry SB, Paxhia A, Ryan RM. Discordant pulmonary proinflammatory cytokine expression during acute hyperoxia in the newborn rabbit. *Exp Lung Res* 1999; 25:443-465.
19. D'Angio CT, Maniscalco WM, Ryan RM, Avissar NE, Basavegowda KP, Sinkin RA. Vascular endothelial growth factor in pulmonary lavage fluid from premature infants: effects of age and postnatal dexamethasone. *Biol Neonate* 1999; 76:266-273.
20. Sinkin RA, Dweck HS, Horgan MJ, Gallaher KJ, Cox C, Maniscalco WM, Chess PR, D'Angio CT, Guillet R, Kendig JW, Ryan RM, Phelps DL. Early dexamethasone - attempting to prevent chronic lung disease. *Pediatrics* 2000; 105:542-548.
21. O'Reilly MA, Staversky RJ, Huyck HL, Watkins RH, LoMonaco MB, D'Angio CT, Baggs RB, Maniscalco WM, Pryhuber GS. Bcl-2 family gene expression during severe hyperoxia induced lung injury. *Lab Invest* 2000; 80:1845-1854.
22. D'Angio CT, Ambati J, Phelps DL. Do urinary levels of vascular endothelial growth factor predict proliferative retinopathy? *Curr Eye Res* 2001; 22:90-94.
23. Kirmani KI, Lofthus GL, Pichichero ME, Voloshen T, D'Angio CT. Seven-year follow-up of vaccine response in extremely premature infants. *Pediatrics* 2002; 109:498-504.

24. Hastings RH, Ryan RM, D'Angio CT, Holm BA, Patel A, Quintana R, Biederman E, Burton DW, Deftos LJ. Parathyroid hormone-related protein response to hyperoxic lung injury. *Am J Physiol* 2002; 282:L1198-1208.
25. Waheed S, D'Angio CT, Wagner CL, Madtes DK, Finkelstein JN, Paxhia A, Ryan RM. Transforming growth factor alpha (TGF α) is increased during hyperoxia and fibrosis. *Exp Lung Res* 2002; 28:361-372.
26. Uy IP, D'Angio CT, Menegus M, Guillet R. Changes in early-onset group B beta hemolytic streptococcus disease with changing recommendations for prophylaxis. *J Perinatol* 2002; 22:516-522.
27. D'Angio CT, Basawegowda K, Avissar NE, Finkelstein JN, Sinkin RA. Comparison of tracheal aspirate and bronchoalveolar lavage specimens from premature infants. *Biol Neonate* 2002; 82:145-149.
28. Butler-O'Hara M, D'Angio CT. Risk of persistent renal insufficiency in premature infants following the prenatal use of indomethacin for suppression of preterm labor. *J Perinatol* 2002; 22:541-546.
29. Staversky RJ, Watkins RH, Wright TW, Hernady E, LoMonaco MB, D'Angio CT, Williams JP, Maniscalco WM, O'Reilly MA. Normal remodeling of the oxygen-injured lung requires the cyclin-dependent kinase inhibitor p21^{Cip1/WAF1/Sdi1}. *Am J Pathol* 2002; 161:1383-1393.
30. D'Angio CT, Sinkin RA, Stevens TP, Landfish NK, Merzbach JL, Ryan RM, Phelps DL, Palumbo DR, Myers GJ. Longitudinal, fifteen-year follow-up of children born below 29 weeks' gestation following the introduction of surfactant therapy into a region: neurologic, cognitive and educational outcomes. *Pediatrics* 2002; 110:1094-1102.
31. Hjort MR, Brenyo AJ, Finkelstein JN, Frampton MW, LoMonaco MB, Stewart JC, Johnston CJ, D'Angio CT. Alveolar epithelial cell-macrophage interactions affect oxygen-stimulated interleukin-8 release. *Inflammation* 2003; 27:137-145.
32. Varughese R, Nowobilski J, LoMonaco M, O'Reilly MA, Ryan RM, D'Angio CT. Effects of hyperoxia on tumor necrosis factor α and Gro β expression in newborn rabbit lungs. *Lung* 2003; 181:335-346.
33. D'Angio CT, LoMonaco MB, Johnston CJ, Reed CK, Finkelstein JN. Differential roles for NF κ B in endotoxin and oxygen induction of interleukin-8 in the macrophage. *Am J Physiol Lung Cell Mol Physiol* 2004; 286:L30-L36.

34. Van Meurs KP, Wright LL, Ehrenkranz RA, Lemons JA, Ball MB, Poole WK, Perritt R, Higgins RD, Oh W, Hudak ML, Laptook AR, Shankaran S, Finer NN, Carlo WA, Kennedy KA, Fridriksson JH, Steinhorn RH, Sokol GM, Konduri GG, Ashner JL, Stoll BJ, D'Angio CT, Stevenson DK for the Premie Inhaled Nitric Oxide Study. Inhaled nitric oxide for premature infants with severe respiratory failure. *N Engl J Med* 2005; 353:13-22.
35. D'Angio CT, Chess PR, Kovacs SJ, Sinkin RA, Phelps DL, Kendig JW, Myers GJ, Reubens L, Ryan RM. Pressure-regulated volume control ventilation vs. synchronized intermittent mandatory ventilation for very low birth weight infants: a randomized controlled trial. *Arch Pediatr Adol Med* 2005; 159(9):868-875.
36. Harris MC, D'Angio CT, Gallagher PR, Kaufman D, Evans J, Kilpatrick L. Cytokine elaboration in critically ill infants with bacterial sepsis, necrotizing enterocolitis, or sepsis syndrome: Correlation with clinical parameters of inflammation and mortality. *J Pediatr* 2005; 147(4):462-468.
37. Reininger A, Khalak R, Kendig JW, Ryan RM, Stevens TP, Reubens L, D'Angio CT. Surfactant administration by transient intubation in infants 29-35 weeks' gestation with respiratory distress syndrome decreases the likelihood of later mechanical ventilation: a randomized controlled trial. *J Perinatol* 2005; 25(11):703-708.
38. Butler-O'Hara ME, Buzzard C, Reubens L, McDermott M, DiGrazio W, D'Angio CT. A randomized trial comparing long- and short- term use of umbilical venous catheters in premature infants with birth weights of less than 1251 grams. *Pediatrics* 2006; 118(1):e25-e35.
39. D'Angio CT, Boohene PA, Mowrer A, Audet S, Schmid DS, Menegus MA, Beeler JA. Measles-mumps-rubella and varicella vaccine responses in extremely preterm infants. *Pediatrics* 2007; 119:e574-e579.
40. Narang S, Roy J, Stevens TP, Butler-O'Hara M, Mullen CA, D'Angio CT. Risk factors for umbilical venous catheter-associated thrombosis in very low birth weight infants. *Pediatr Blood Cancer* 2009; 52:75-79.
41. Ambalavanan N, Carlo WA, D'Angio CT, McDonald SA, Das A, Schendel D, Thorsen P, Higgins RD for the Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. Cytokines associated with bronchopulmonary dysplasia or death in extremely low birth weight infants. *Pediatrics* 2009; 123(4):1132-41.
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