

Richard A. Ehrenkranz, MD
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CURRICULUM VITAE

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UNIVERSITY AND MEDICAL CENTER APPOINTMENTS:

Yale University School of Medicine:

Professor of Pediatrics and Obstetrics and Gynecology, 1988-present
Associate Professor of Pediatrics and Obstetrics and Gynecology, 1982-1988
Assistant Professor of Pediatrics, 1978-1982
Assistant Professor of Obstetrics and Gynecology, 1979-1982

Yale-New Haven Children's Hospital:

Clinical Director, Newborn Special Care Unit, 1982-2004
Medical Director, Newborn Special Care Unit, 2004-present
Attending Physician, Pediatrics, 1978-present

Waterbury Regional Department of Pediatrics, Waterbury, CT:

Acting Director of Pediatrics, 1994-1995

HONORS:

Public Policy Fellow, Office of Government Affairs
March of Dimes Birth Defects Foundation, Washington, D.C.
Sabbatical, September 1993-February 1994

UNIVERSITY SCHOOL OF MEDICINE ACTIVITIES:

Children's Clinical Research Center Advisory Committee, 1980 – 2003
General Clinical Research Center Advisory Committee, 2003- present
Affirmative Action Committee, 1990 - 1995
Appointments and Promotions Committee, 1990 - 1993

MEDICAL CENTER ACTIVITIES:

Perinatal Mortality and Morbidity Review Committee,
Member, 1978-present; Chairman, 1980-1995

Richard A. Ehrenkranz, MD
July 2007

Critical Care Committee, 1984-1986
Nutrition Support Team, 1987- 2000
Secretary of Medical Staff, 1989-1990
Medical Staff Cabinet, 1989-1993
Intensive Care Unit Directors Committee, 1996-present
Risk Management Committee, 1999-2001
Blood Bank Committee, 1999- present
Point of Care Committee, 2000- present
Strategic Development Committee, 2000-present

NATIONAL ADVISORY ACTIVITIES:

Member, NIH Pulmonary SCOR Grant site visit, Department of Pediatrics, Vanderbilt University School of Medicine, Nashville, TN, February 1981
Advisory Committee for Ross Laboratories Perinatal Medicine Seminars, 1985-1989
Member, Ad Hoc Study Section, Multicenter Trial of Cryotherapy for Retinopathy of Prematurity, NEI, September 1985
Member, Ad Hoc Review Group, Planning Grants for Retinopathy of Prematurity Trials, NEI, December 1989
Advisory Board for Mead Johnson Nutritionals Perinatal and Developmental Medicine Symposiums, 1994-2000
Member Initial Review Group, Maternal and Child Health Research Subcommittee (CHHD-B), NICHD, 2001-2003
Member Initial Review Group, Pediatrics Subcommittee (CHHD-A), NICHD, 2003-2005
Member, NIDDK Biliary Atresia Research Consortium (BARC) DSMB, 2004-present
Member, DSMB, Maternal, Infant and Reproductive Health Unit (MIRU) at Women's College Research Institute, University of Toronto, Toronto, Canada, 2007- present

PROFESSIONAL SOCIETIES AND ORGANIZATIONS:

Alpha Omega Alpha, 1971
American Academy of Pediatrics, 1979
Executive Committee, Connecticut Chapter, 1994-2000
Vice-President, Connecticut Chapter, 1997-2000
New England Perinatal Society, 1979
American College of Nutrition, Fellow, 1980
Sigma Xi, 1983
American Association for the Advancement of Science, 1985
Society for Pediatric Research, 1985
American Society for Clinical Nutrition, 1989
American Pediatric Society, 1997

LICENSURE:

Diplomate, National Board of Medical Examiners, 1973
Certified: American Board of Pediatrics, 1977
Sub-Board of Neonatal-Perinatal Medicine, 1979
Licensure: Maryland, 1974, Connecticut, 1976

Richard A. Ehrenkranz, MD
July 2007

UNDERGRADUATE EDUCATION:

Massachusetts Institute of Technology, 1964-1968
B.S. in Life Sciences, 1968

MEDICAL EDUCATION:

Downstate Medical Center - State University of New York, 1968-1972
M.D. Degree, Cum Laude, 1972

INTERNSHIP:

Pediatrics, Yale-New Haven Medical Center, 1972-1973

RESIDENCY:

Pediatrics, Yale-New Haven Medical Center, 1973-1974

POSTDOCTORAL TRAINING:

Research Associate, Pregnancy Research Branch , National Institute of Child Health and Human Development, NIH, Bethesda, Maryland 1974-1976

Fellow in Neonatology, Division of Perinatal Medicine, Department of Pediatrics
Yale University School of Medicine, New Haven, Connecticut 1976-1978

Yale Management Program for Physicians
Yale University School of Management, New Haven, Connecticut 1999

MILITARY SERVICE:

U.S. Public Health Service, Lieutenant Commander
National Institutes of Health, Bethesda, Maryland, 1974-1976

DATE OF BIRTH: July 28, 1946

PLACE OF BIRTH: Newark, New Jersey

MARITAL STATUS: Divorced, 1998; Remarried, 2000

CHILDREN: 2 sons, 1972, 1974
3 stepsons, 1985, 1988, 1988

BIBLIOGRAPHY

Publications

1. Honova E, Miller SA, Ehrenkranz RA, Woo A: Tyrosine transaminase: Development of daily rhythm in liver of neonatal rat. *Science* 162:999-1001, 1968.
2. Brasel JA, Ehrenkranz RA, Winick M: DNA polymerase activity in rat brain during ontogeny. *Develop Biol* 23:424-432, 1970.
3. Brasel JA, Joh BS, Ehrenkranz RA: Patterns of DNA polymerase activity in normal rat forebrain and cerebellum in the suckling period. *Growth* 37:301-310, 1973.
4. Lerer RJ, Ehrenkranz RA, Campbell AGM: Pigmented lesions of incontinentia pigmenti in a neonate. *Pediatr* 83:503-505, 1973.
5. Pepe GJ, Ehrenkranz RA, Townsley JD: The metabolic clearance rates and interconversion of cortisol and cortisone in pregnant and nonpregnant baboons. *Endocrinol* 99:597-601, 1976.
6. Ehrenkranz RA, Walker AM, Oakes GK, McLaughlin MK, Chez RA: Effect of ritodrine infusion on uterine and umbilical blood flow in pregnant sheep. *Am J Obstet Gynecol* 126:343-349, 1976.
7. Oakes GK, Walker AM, Ehrenkranz RA, Cefalo RC, Chez RA: Uteroplacental blood flow during hyperthermia with and without respiratory alkalosis. *J Appl Physiol* 41:197-201, 1976.
8. Walker AM, Oakes GK, Ehrenkranz RA, McLaughlin MK, Chez RA: Effects of hypercapnia on uterine and umbilical circulations in conscious pregnant sheep. *J Appl Physiol* 41:727-733, 1976.
9. Oakes GK, Walker AM, Ehrenkranz RA, Chez RA: Effect of propranolol infusion on the umbilical and uterine circulations of pregnant sheep. *Am J Obstet Gynecol* 126:1038-1042, 1976.
10. Ehrenkranz RA, Walker AM, Oakes GK, Hamilton LA, Jr, Chez RA: Effect of fenoterol (Th1165a) infusion on uterine and umbilical blood flow in pregnant sheep. *Am J Obstet Gynecol* 128:177-182, 1977.
11. Ehrenkranz RA, Hamilton LA, Jr, Brennan SC, Oakes GK, Walker AM, Chez RA: Effects of salbutamol and isoxsuprine on uterine and umbilical blood flow in pregnant sheep. *Am J Obstet Gynecol* 128:287-293, 1977.
12. Ehrenkranz RA, Chez RA, Princler GL, McIntire KR, Waldmann TA: Alpha-fetoprotein values in monkey (*Macaca mulatta*) pregnancy. *Teratol* 6:313-316, 1977.
13. Walker AM, Oakes GK, McLaughlin MK, Ehrenkranz RA, Alling DW, Chez RA: Twenty-four hour rhythms in uterine and umbilical blood flows of conscious pregnant sheep. *Gynecol Invest* 8:288-298, 1977.
14. Ehrenkranz RA, Bonta BW, Ablow RC, Warshaw JB: Amelioration of bronchopulmonary dysplasia following vitamin E administration: A preliminary report. *N Engl J Med* 299:564-569, 1978.

15. Ehrenkranz RA, Ablow RC, Warshaw JB: Oxygen toxicity: The complication of oxygen use in the newborn. *Clin Perinatol* 5:437-450, 1978.
16. Ehrenkranz RA, Ablow RC, Warshaw JB: Prevention of bronchopulmonary dysplasia with vitamin E administration during the acute stages of respiratory distress syndrome. *J Pediatr* 95:873-878, 1979.
17. Ehrenkranz RA: Vitamin E and the neonate: A review. *Am J Dis Child* 134:1157-1166, 1980.
18. Freedman RM, Ingram DL, Gross I, Ehrenkranz RA, Warshaw JB, Baltimore RS: A half century of neonatal sepsis at Yale: 1928-1978. *Am J Dis Child* 135:140-144, 1981.
19. Ment LR, Ehrenkranz RA, Lange RC, Rothstein PT, Duncan CC: Alterations in cerebral blood flow in preterm infants with intraventricular hemorrhage. *Pediatr* 68:763-769, 1981.
20. Duncan CC, Ment LR, Smith B, Ehrenkranz RA: A scale for the assessment of neonatal neurologic status. *Child's Brain* 8:299-306, 1981.
21. Hoder EL, Leckman JF, Ehrenkranz RA, Kleber H, Cohen DJ, Poulsen JA: Clonidine in neonatal narcotic-abstinence syndrome (Letter). *N Engl J Med* 305:1284, 1981.
22. Ehrenkranz RA, Ablow RC, Warshaw JB: Effect of vitamin E on the development of oxygen-induced lung injury in neonates. *Ann NY Acad Sci* 393:452-466, 1982.
23. Puklin JE, Simon RM, Ehrenkranz RA: Intramuscular vitamin E administration during respiratory distress syndrome does not prevent retrolental fibroplasia. *Ophthalmol* 89:96-103, 1982.
24. Ehrenkranz RA, Puklin JE: Reply to "Letter to the Editor". *Ophthalmol* 89:988-989, 1982.
25. Ment LR, Scott DT, Ehrenkranz RA, Rothman SG, Duncan CC, Warshaw JB: Neonates of \leq 1,250 grams birth weight: Prospective neurodevelopmental evaluations during the first year post-term. *Pediatr* 70:292-296, 1982.
26. Ment LR, Freedman RM, Ehrenkranz RA: Neonates with seizures attributable to perinatal complications: Computed tomographic evaluation. *Am J Dis Child* 136:548-550, 1982.
27. Ment LR, Scott DT, Lange RC, Ehrenkranz RA, Duncan CC, Warshaw JB: Post-partum perfusion of the preterm brain: Relation to neurodevelopmental outcome. *Child's Brain* 10:266-272, 1983.
28. Moya FR, Ehrenkranz RA: Intrauterine growth retardation. *Med NA* 36:3408-3413, 1983.
29. Colburn WA, Ehrenkranz RA: Pharmacokinetics of a single intramuscular injection of vitamin E to premature neonates. *Pediatr Pharmacol* 3:7-14, 1983.

30. Scott DT, Ment LR, Ehrenkranz RA, Warshaw JB: Evidence for late developmental deficit in very low birth weight infants surviving intraventricular hemorrhage. *Child's Brain* 11:261-269, 1984.
31. Ment LR, Duncan CC, Scott DT, Ehrenkranz RA: Posthemorrhagic hydrocephalus: Low incidence in very low birth weight neonates with intraventricular hemorrhage. *J Neurosurg*, 60:343-347, 1984.
32. Ment LR, Duncan CC, Ehrenkranz RA, Lange RC, Taylor KJ, Kleinman CS, Scott DT, Sivo J, Gettner P: Intraventricular hemorrhage of the preterm neonate: Timing and cerebral blood flow changes. *J Pediatr* 104:419-425, 1984.
33. Ment LR, Ehrenkranz RA, Duncan CC, Lange RC: Delayed hemorrhagic infarction: An etiology for late GMH/IVH. *Arch Neurol* 41:1036-1039, 1984.
34. Ehrenkranz RA, Ackerman BA, Nelli CM: Total lipid content and fatty acid composition of preterm human milk. *J Pediatr Gastroenterol Nutr*, 3:755-758, 1984.
35. McCarthy S, Sarwar M, Virapongse C, Ehrenkranz R: Craniofacial anomalies in the amniotic band disruption complex. *Pediatr Radiol* 14:44-46, 1984.
36. Ehrenkranz RA, Ackerman BA, Nelli CM, Janghorbani M: Determination of the dietary bioavailability of zinc in premature infants with stable isotopes. *Am J Clin Nutr*, 40:72-81, 1984.
37. Duncan CC, Ment LR, Ehrenkranz RA, Gross I, Hobbins JC, McClure M: Management of spina bifida in the newborn infant. *Conn Med*, 48:349-352, 1984.
38. Ment LR, Duncan CC, Ehrenkranz RA: Perinatal cerebral infarction. *Ann Neurol*, 16:559-568, 1984.
39. Moya FR, Rekedal K, Gettner PA, Chamberlin MA, Gertner J, Ehrenkranz RA: Total calcium and Q-oTc determinations are not useful in the intensive care unit. (Letter to the Editor) *Pediatr* 74:317-318, 1984.
40. Hoder EL, Leckman JF, Poulsen J, Caruso KA, Ehrenkranz RA, Kleber HD, Cohen DJ: Clonidine treatment of neonatal narcotic abstinence syndrome. *Psychiatry Res* 13:243-251, 1984.
41. Ehrenkranz RA, Ackerman BA, Nelli CM, Janghorbani M: Absorption of calcium in premature infants as measured with a stable isotope ⁴⁶Ca extrinsic tag. *Pediatr Res* 19:178-184, 1985.
42. Chervenak FA, Berkowitz GS, Thornton J, Kreiss C, Youcha S, Ehrenkranz RA, Hobbins JC, Berkowitz RL: A comparison of sonographic estimation of fetal weight and obstetrically determined gestational age in the prediction of neonatal outcome for the very low birth weight fetus. *Am J Obstet Gynecol* 152:47-50, 1985.

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45. Ment LR, Scott DT, Ehrenkranz RA, Duncan CC: Early childhood developmental follow-up of infants with GMH/IVH: Effect of methylxanthine therapy. *Am J Perinatology* 2:223-227, 1985.
46. Ment LR, Duncan CC, Ehrenkranz RA, Kleinman CS, Pitt BR, Taylor KJW, Scott DT, Stewart WB, Gettner P: Randomized indomethacin trial for prevention of intraventricular hemorrhage in very low birth weight infants. *J Pediatr* 107:937-943, 1985.
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51. Bilinski DL, Ehrenkranz RA, Cooley-Jacobs J, McGuire J: Symptomatic zinc deficiency in a breast-fed, premature infant. *Arch Dermatol* 123:1221-1224, 1987.
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57. Ross P, Ehrenkranz RA, Kleinman CS, Seashore JH: Thrombus associated with central venous catheters in infants and children. *J Pediatr Surg* 24:253-256, 1989.

58. Gladstone IM, Ehrenkranz RA, Jacobs HC: Pulmonary function tests and fluid balance in neonates with chronic lung disease during dexamethasone treatment. *Pediatrics* 84:1072-1076, 1989.
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60. Gladstone IM, Ehrenkranz RA, Edberg ST, Baltimore RS: Sepsis in the neonatal intensive care unit: The rise of infections due to skin commensal species and a 60-year review. *Pediatr Infect Dis J* 9:819-825, 1990.
61. Pincus SM, Gladstone IM, Ehrenkranz RA: A regularity statistic for medical data analysis. *J Clin Monitor* 7:335-345, 1991.
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63. Ehrenkranz RA, Gettner PA, Nelli CM, Sherwonit EA, Williams JE, Pearson HA, Ting BTG, Janghorbani M: Iron absorption and incorporation into red blood cells by very low birthweight infants: Studies with the stable isotope ⁵⁸Fe. *J Pediatr Gastroenterol Nutr* 15:270-278, 1992.
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67. Ment LR, Oh W, Ehrenkranz RA, Philip AGS, Vohr B, Allan W, Duncan CC, Scott DT, Taylor KJW, Katz KH, Schneider KC, Makuch RW: Low dose indomethacin and prevention of intraventricular hemorrhage: A multicenter randomized trial. *Pediatrics* 93:543-550, 1994.
68. Ment LR, Oh W, Ehrenkranz RA, Philip AGS, Vohr B, Allan W, Makuch RW, Taylor KJW, Schneider KC, Katz KH, Scott DT, Duncan CC: Low dose indomethacin and extension of intraventricular hemorrhage: A multicenter randomized trial. *J Pediatrics* 124:951-955, 1994.
69. Stevenson DK, Vreman HJ, Oh W, Fanaroff AA, Wright LL, Lemons JA, Verter J, Shankaran S, Tyson JE, Korones SB, Bauer CR, Stoll BJ, Papile LA, Okah F, Ehrenkranz RA for the NICHD Neonatal Research Network. Bilirubin production in well term infants as measured by breath carbon monoxide. *Clin Chem* 40:1934-1939, 1994.

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71. Beck-Sague CM, Azimi P, Fonseca SN, Baltimore RS, Powell DA, Bland LA, Arduino MJ, McAllister SK, Huberman RS, Kinkowitz RL, Ehrenkranz RA, Jarvis WR: Bloodstream infections in neonatal intensive care unit patients: results of a multicenter study. *Pediatr Infect Dis J* 13:1110-1116, 1994.
72. Shannon KM, Keith JF, Mentzer WC, Ehrenkranz RA, Brown MS, Widness JA, Gleason CA, Bifano EM, Millard DD, Davis CB, Stevenson DK, Alverson DC, Simmons CF, Brim M, Abels RI, Phibbs RH: Recombinant human erythropoietin stimulates erythropoiesis and reduces erythrocyte transfusions in very low birth weight preterm infants. *Pediatrics* 95:1-8, 1995.
73. Ment LR, Oh W, Ehrenkranz RA, Philip AGS, Duncan CC, Makuch RW: Antenatal steroids, delivery mode, and intraventricular hemorrhage in preterm infants. *Am J Obstet Gynecol* 172:795-800, 1995.
74. Wright LL, Verter J, Younes N, Stevenson D, Fanaroff AA, Shankaran S, Ehrenkranz RA, Donovan EF for the NICHD Neonatal Research Network: Antenatal corticosteroid administration and neonatal outcome in very low birth weight infants: The NICHD Neonatal Research Network. *Am J Obstet Gynecol* 173:269-274, 1995.
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76. Stoll BJ, Gordon T, Korones SB, Shankaran S, Tyson JE, Bauer CR, Fanaroff AA, Lemons JA, Donovan EF, Oh W, Stevenson DK, Ehrenkranz RA, Papile LA, Verter J, Wright LL: Late-onset sepsis in very low birth weight neonates: A report from the National Institute of Child Health and Human Development Neonatal Research Network. *J Pediatr* 129:63-71, 1996.
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78. Ment LR, Vohr B, Oh W, Scott DT, Allan WC, Westerveld M, Duncan CC, Ehrenkranz RA, Katz KH, Schneider KC, Makuch RW: Neurodevelopmental outcome at 36 months' corrected age of preterm infants in the multicenter indomethacin intraventricular hemorrhage prevention trial. *Pediatrics* 98:714-718, 1996.
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 85. Bahado-Singh RO, Dashe J, Deren O, Daftary G, Copel JA, Ehrenkranz RA. Prenatal prediction of neonatal outcome in the extremely low-birth-weight infant. *Am J Obstet Gynecol* 178:462-468, 1998.
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 89. Stevenson DK, Wright LL, Lemons JA, Oh W, Korones SB, Papile LA, Bauer CR, Stoll BJ, Tyson JE, Shankaran S, Fanaroff AA, Donovan EF, Ehrenkranz RA, Verter J. Very-low-birth-weight (VLBW) outcomes of the NICHD Neonatal Research Network, January 1993 through December 1994. *Am J Obstet Gynecol* 179:1632-1639, 1998.

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93. Shah SS, Ehrenkranz RA, Gallagher PG, Increasing incidence of Gram-negative rod bacteremia in a newborn intensive care unit. *Pediatr Infect Dis J* 18:591-595, 1999.
94. Stoll BJ, Temprosa M, Tyson JE, Papile LA, Wright LL, Bauer CR, Donovan EF, Korones SB, Lemons JA, Fanaroff AA, Stevenson DK, Oh W, Ehrenkranz RA, Shankaran S, Verter J. Dexamethasone therapy increases infection in very low birth weight infants. *Pediatrics* 104(5), 1999. [URL:http://www.pediatrics.org/cgi/content/full/104/5/e63](http://www.pediatrics.org/cgi/content/full/104/5/e63).
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96. Pearson HA, Ehrenkranz RA, Rinder HM, Riely, CA. Hemosiderosis in a normal child secondary to oral iron medication. *Pediatrics* 105:429-432, 2000.
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Richard A. Ehrenkranz, MD
July 2007

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