

1/2007

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PERSONAL

Birth Date: July 16, 1946
Birthplace: Goldsboro, NC
Marital Status: Married

CAREER

Yale University School of Medicine, Assistant Professor
Surgery/Neurosurgery, New Haven, Connecticut 1977-1980
Veterans Administration Hospital, Chief of 1977-1979
Yale-New Haven Hospital, New Haven, CT, Attending 1977-present
Veterans Administration Hospital, Consultant in Neurosurgery,
West Haven, Connecticut 1979-present
Yale University School of Medicine, Chief Pediatric
Neurosurgery, New Haven, Connecticut 1978-present
Yale University School of Medicine, Assistant Professor
Surgery (Neurosurgery) and Pediatrics,
New Haven, Connecticut 1980-1981
Yale University School of Medicine, Associate Professor
Surgery (Neurosurgery) and Pediatrics, term,
New Haven, CT 1981-1984
Yale University School of Medicine, Associate Professor
Surgery (Neurosurgery) and Pediatrics without term,
New Haven, Connecticut 1984-1994
Yale University School of Medicine, Professor of
Neurosurgery and Pediatrics without term,
New Haven, Connecticut 1994-present
Hospital of St. Raphael, New Haven, CT, Attending 1996-present
Director, Neurosurgery Residency Program 1997-present

HONORS

Yale University Honorary M.A. 1995

SPECIAL STUDIES

School of Organization and Management, Yale University 1985-1986

SOCIETIES

American Medical Association 1972; New Haven County Medical Society 1979; American Association of Neurological Surgeons 1980; American Association of Neurological Surgeons, Pediatric Section 1981; Neurosurgical Research Society 1981; Congress of Neurological Surgeons 1981; American College of Surgeons 1981; International Society of Pediatric Neurosurgery 1982; American Academy of Pediatrics 1983; American Society of Pediatric Neurosurgery 1983; Sigma Xi, 1985, Society for Neuroscience 1988, Society of Neurological Surgeons 2002, Section on Neurological Surgery (AAP) 2005

COMMITTEES AND APPOINTMENTS

MAC, Emergency Service, Y-NHH	1978-1981
Brookhaven National Laboratory, Research Collaborator	1978-1985
Assistant Editor, Journal of Neurosurgery	1985-1989
MAC, Adult General Clinical Research Center	1985-1988
Medical School Admissions Committee	1986-1989
Progress Committee, Class of 1989	1987-1989
Health Systems Management Group	1987-1993
Yale Comprehensive Cancer Center	1988-present
SCI Fellowship Task Force	1988-1989
MCIC Neurosciences Committee	1989-present
Risk Management Committee	1989-present
Referee, NATO Scientific Exchange Programs	1990-1995
Neuroscience Education Curriculum Committee	1991-1993
Chair, Senior Physicians Committee	1992-1994
Chair, Program and Institutional Network Work Group	1993-1994
Operating Room Work Redesign Committee	1993-1994
Credentials Committee	1994-1996
Reviewer, Pediatric Neurosurgery	1994-present
CCRC Advisory Committee	1995-1998
Duke University Alumni Admissions Advisory Committee	1996-present
By-Laws Review	1998-2001
Appointments and Promotions	
Medical School Standing Committee	1999-2002

EDUCATION AND POSTGRADUATE TRAINING

Vanderbilt University	B.A.	1964-1968
Duke University	M.D.	1968-1972
Duke University	Intern, Surgery	1971-1972
Duke University	Resident, Neurosurgery	1972-1977

MILITARY

North Carolina Army National Guard	1972-1978
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LICENSURE

North Carolina	17951, (inactive)	June 15, 1972
Connecticut	018809	May 31, 1977

BOARD CERTIFICATION

American Board of Neurological Surgery	September, 1979
American Board of Pediatric Neurological Surgery	November 15, 1996

GRANTS AND FELLOWSHIPS

Vanderbilt University, Developmental Biology	1968-present
Duke University, Neurosciences	1970-present
Duke University, Research Scholar in Neurosurgery	1973-1974
Ohse Fund Grant, Cerebral Blood Flow Determination by PET, Principal Investigator	1978-1980
NIH, NINDS, Tracer Kinetics in Regional CBF, Principal Investigator	1981-1985
Charles E. Culpepper Foundation, Pharmacological Prevention of IVH, Co-investigator	1983-1986
March of Dimes, IVH in Preterm Neonates, Co-investigator	1983-1987
Ohse Fund Grant, Beagle Pup Model of Perinatal Cerebral Infarction, Principal Investigator	1985-1986
Advanced Studies Institute, NATO, Cerebral Blood Flow Measurement, Director	1985-1986
AHA, CT, Beagle Pup Model of Perinatal Cerebral Infarction, Co-investigator	1985-1986
HCFA, DRG Refinement Project, Co-investigator	1986-1988
NIH, NINDS, Role of Prostaglandins in Neonatal Cerebral Infarction, Co-investigator	1987-1990
Ohse Fund Grant, Traumatic Injury to the Developing Brain, Principal Investigator	1988-1989
NIH, NINDS, Randomized Indomethacin GMH/IVH Prevention Trial, Co-Principal Investigator	1988-1994
NIH, NINDS, Basic Mechanisms of Cortical Injury: Relevance to IVH, P-20, Co-investigator	1993-1996
NIH, NINDS, Randomized Indomethacin GMH/IVH Prevention Trial, Co-Investigator, Collaborator	1989-2010
NIH, AHCPR and HCFA, Computerized Screening Program, Outpatient Version, Consultant	1995-1998
NIH, NINDS, Adaptive Mechanisms of Developing Brain, Neonatal Research Center, Collaborator	1997-2008
Canavan Research Foundation, Gene Therapy for Canavan Disease, A phase I Trial, Co-investigator	1997-1999
NIH, NINDS, fMRI of Brain Development in Newborn Infants, NS/HD 42027, 9/15/2001 – 9/14/2004, Co-investigator, 5% effort, Laura R. Ment, M.D., Principal Investigator	2001-2004

CHARLES C. DUNCAN, M.D.

BIBLIOGRAPHY

ORIGINAL ARTICLES

1. Cook WA, Duncan CC: Contribution of Group I afferents to the tonic stretch reflex of the decerebrate cat. *Brain Research* 33:509-513, 1971.
2. Duncan CC, Zorub DS, Cook WA: Spasticity actions of selectively activated Group II muscle spindle afferents on extensor motoneurons. *Surgical Forum* 26:477-479, 1975.
3. Glanz S, Geehr RB, Duncan CC, Peipmeier JM: Metrizimide-enhanced CT for evaluation of brain stem tumors. *Am J Neuroradiology* 1:31-34, 1980 and *Am J Roentgenology* 134:821-824, 1980.
4. Ment LR, Duncan CC, Parcels PP, Collins WF: Evaluation of complicated migraine of childhood. *Child's Brain* 7:261-266, 1980.
5. Ment LR, Duncan CC, Geehr RB: Benign enlargement of the subarachnoid spaces in the infant. *J Neurosurg* 54:504-508, 1981.
6. Duncan CC, Ment LR, Smith B, Ehrenkranz RA: A scale for the assessment of neonatal neurological status. *Child's Brain* 8:299-306, 1981.
7. Ment LR, Ehrenkranz RA, Lange RC, Rothstein PT, Duncan CC: Alterations in cerebral blood flow in preterm infants with intraventricular hemorrhage. *Pediatrics* 68:763-769, 1981.
8. Duncan CC, Ment LR: Cerebral blood flow determinations by positron emission tomography. *J Neurosurg Sciences* 26:225-232, 1982.
9. Duncan CC, Bennett GW, Ment LR: The relation of proton activation of brain to cerebral blood flow. *J Neurosurg Sciences* 26:233-236, 1982.
10. Chehrazi B, Duncan CC: Removal of retained ventricular shunt catheters without craniotomy. *J Neurosurg* 56:160-161, 1982.
11. Ment LR, Duncan CC, Rowe DS: Central nervous system manifestations of child abuse. *Connecticut Medicine* 46:315-318, 1982.
12. Ment LR, Scott DT, Ehrenkranz RA, Rothman SG, Duncan CC, Warshaw JB: Neonates of <1250 G birth weight: Prospective neurodevelopmental evaluation during the first year post-term. *Pediatrics* 70:292-296, 1982.
13. Ment LR, Stewart WB, Duncan CC, Lambrecht RM: Beagle puppy model of intraventricular hemorrhage. *J Neurosurg* 57:219-223, 1982.
14. Ment LR, Duncan CC, Stewart WB: Local cerebral glucose utilization in the beagle puppy model of intraventricular hemorrhage. *J Neurosurg* 57:384-389, 1982.

15. Duncan CC, Lambrecht RM, Rescigno A, Shiue C-Y, Bennett GW, Ment LR: The ramp of injection of radiotracers for blood flow measurement by emission tomography. *Phys Med Biol* 28:963-972, 1983.
16. Duncan CC, Ment LR, Shaywitz BA: Evaluation of level of consciousness by the Glasgow Coma Scale in children with Reye's syndrome. *Neurosurgery* 13:650-653, 1983.
17. Chervenak FA, Duncan CC, Ment LR, Tortora M, McClure M, Hobbins JC: Perinatal management of meningocoele. *Am J Ob and Gyn* 148:192-196, 1983.
18. Chervenak FA, Berkowitz RL, Romero R, Tortora M, Mayden K, Duncan CC, Mahoney MJ, Hobbins, JC: The diagnosis of fetal hydrocephalus. *Am J Ob and Gyn* 147:703-716, 1983.
19. Corkill G, Duncan CC: Absence of dural pulsations as an indication for dural opening in malignant melanoma metastatic to the spine. *Surg Neurol* 19:35-37, 1983.
20. Cruz NI, Ariyan S, Duncan CC, Cuomo CB: Repair of lumbosacral myelomeningocoeles with double Z-rhomboid flaps. *J Neurosurg* 59:714-717, 1983.
21. Ment LR, Stewart WB, Scott DT, Duncan CC: Beagle puppy model of intraventricular hemorrhage: Randomized indomethacin prevention trial. *Neurology* 33:179-184, 1983.
22. Ment LR, Stewart WB, Duncan CC, Scott DT, Lambrecht RM: Beagle puppy model of intraventricular hemorrhage. Effect of indomethacin on cerebral blood flow. *J Neurosurg* 58:857-862, 1983.
23. Ment LR, Scott DT, Lange RC, Ehrenkranz RA, Duncan CC, Warshaw JB: Postpartum perfusion of the preterm brain: Relationship to neurodevelopmental outcome. *Child's Brain* 10:266-272, 1983.
24. Chervenak FA, Duncan CC, Ment LR, Hobbins JC, McClure M, Scott D, Berkowitz RL: The outcome of fetal ventriculomegaly. *Lancet* ii:179-181, 1984.
25. Duncan CC, Lambrecht RM, Bennett GW, Rescigno A, Ment LR: Observations of the dynamics of ionic potassium-38 in brain. *Stroke* 15:145-148, 1984.
26. Duncan CC, Ment LR: Techniques and methods of measurement of intracranial pressure. *Connecticut Medicine* 48:141-143, 1984.
27. Duncan CC, Ment LR: Management of pediatric head trauma. *Connecticut Medicine* 48:282-286, 1984.
28. Duncan CC, Ment LR, Ehrenkranz RA, Gross I, Hobbins JC, McClure M: Management of spina bifida in the newborn infant. *Connecticut Medicine* 48:349-352, 1984.
29. Ment LR, Duncan CC, Ehrenkranz RA: Perinatal cerebral infarction. *Ann Neurol* 16:559-568, 1984.

30. Ment LR, Duncan CC, Ehrenkranz RA, Lange RC, Taylor KJW, Kleinman CS, Scott DT, Sivo J, Gettner P: Intraventricular hemorrhage of the preterm neonate: Timing and cerebral blood flow changes. *J Peds* 104:419-425, 1984.
31. Ment LR, Duncan CC, Scott DT, Ehrenkranz RA: Posthemorrhagic hydrocephalus: Low incidence in very low birth weight neonates with IVH. *J Neurosurg* 60:342-350, 1984.
32. Ment LR, Ehrenkranz RA, Duncan CC, Lange RC: Delayed hemorrhagic infarction: An etiology for late GMH/IVH. *Arch Neurol* 41:1036-1039, 1984.
33. Ment LR, Stewart WB, Duncan CC: Beagle puppy model of intraventricular hemorrhage: Ethamsylate studies. *Prostaglandins* 27:245-256, 1984.
34. Ment LR, Stewart WB, Duncan CC, Scott DT, Lambrecht RM: Beagle puppy model of intraventricular hemorrhage: Effect of indomethacin on local cerebral glucose utilization. *J Neurosurg* 60:737-742, 1984.
35. Kim JH, Duncan CC, Manuelidis EE: Congenital cerebellar medulloblastoma. *Surg Neurol* 23:75-81, 1985.
36. Kim JH, Booss J, Manuelidis EE, Duncan CC: Human eastern equine encephalomyelitis: Electronmicroscopic study of a brain biopsy. *Am J Clin Path* 84:223-227, 1985.
37. McIntosh S, Chen M, Sartain PA, Duncan CC, Fishburn R, Klatskin EH, Schwartz AD, Venes JL: Adjuvant chemotherapy for medulloblastoma. *Cancer* 56:1316-1319, 1985.
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39. 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.
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45. Ment LR, Ehrenkranz RA, Duncan CC: Bacterial meningitis as an etiology of perinatal cerebral infarction. *Ped Neurol* 2:276-279, 1986.
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54. Ment LR, Stewart WB, Gore JC, Duncan CC: Beagle puppy model of perinatal asphyxia: Alterations of cerebral blood flow and metabolism. *Pediatric Neurology* 4:98-104, 1988.
55. Duncan CC: Management of proximal shunt malfunction, *J Neurosurg* 68:817-819, 1988.
56. Duncan CC: Managing proximal shunt obstruction. *Correspondence. J Neurosurg*, 69:805-806, 1988.
57. Duncan CC, Ment LR: Post hemorrhagic hydrocephalus: Commentary. *Pediatric Neuroscience* 13:133-134, 1988.

58. Duncan CC, Ment LR: Head injury: Management in children. Connecticut Medicine 52:331-334, 1988.
59. Ment LR, Duncan CC, Ehrenkranz RA, Kleinman CS, Taylor KJW, Scott DT, Gettner P, Scherwonit E, Williams J: Randomized low-dose indomethacin trial for prevention of intraventricular hemorrhage in very low birth weight neonates. J Peds 112:948-955, 1988.
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61. Duncan CC, Ment LR, Ogle E: Traumatic injury to the developing brain. Concepts in Pediatric Neurosurgery 9:211-229, 1989.
62. Ment LR, Stewart WB, Petroff OAC, Duncan CC: Beagle pup model of asphyxia: Thromboxane synthesis inhibitor CGS 13080 Studies. Stroke 20:809-814, 1989.
63. Ment LR, Stewart WB, Petroff OAC, Duncan CC, Montoya D: Beagle pup model of perinatal asphyxia: Blockade of excitatory neurotransmitters. Pediatric Neurology 5:281-286, 1989.
64. Jenson HB, Levy SR, Duncan CC, Mcintosh S. Treatment of multiple brain abscesses caused by Bacillus cereus. [Journal Article] Pediatric Infectious Disease Journal. 8(11):795-8, 1989 Nov
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68. Iezzoni LI, Daley J, Heeren T, Foley SM, Hughes JS, Fisher ES, Duncan C, Coffman GA: Identifying complications of care using administrative data. Medical Care. 32:700-715,1994.
69. Demirci A, Kawamura Y, Sze G, Duncan C: MR of Parenchymal Melanosis. Neuroradiology. In Press 1994.
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71. Ment LR, Oh W, Ehrenkranz RA, Philip ASG, 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 trial. Pediatrics. 93:543-550, 1994.

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75. Ment LR, Oh W, Ehrenkranz RA, Duncan CC, Makuch RW: Cerebral protective effects of low-dose indomethacin. *European Journal of Perinatal Medicine*, 1994.
76. Williams EM, Galbraith JG, Duncan CC: Neuro-endoscopic laser third ventriculostomy. *AORN J* 61:345-359, 1995.
77. Kalish RL, Daley J, Duncan CC, Davis RB, Coffman GA, Iezzoni LI: Costs of potential complications of care for major surgery patients. *American Journal of Medical Quality*, 10:48-54, 1995.
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81. Ment LR, Vohr B, Oh W, Scott DT, Allen W, Westerveld M, Duncan CC, Ehrenkranz RA, Katz K, Makuch RW: Neurodevelopmental outcome at 36 months corrected age of preterm infants in the multicenter indomethacin IVH prevention trial. *Pediatrics*, 98:714-718, 1996.
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84. Peterson BS, Vohr B, Cannistraci C, Dolberg E, Westerveld M, Duncan

CC, Schneider KC, Katz, KH, Gore J, Makuch RW, Ment LR. Regional vulnerability of developing brain. JAMA, 184:1939-1947, 2000.

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88. Shin JH, Duncan CC, Persing J: Monobloc distraction. J Craniofac Surg, 14: 763-6, 2003.

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92. Baehring J, Ogle E, Sze G, Duncan C, Bannykh S. Ganglioneurocytoma of the spinal cord. J Neurooncol. 2005 Jan;71(2):149.

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96. Henry MC, Tashjian DB, Kasowski H, Duncan C, Moss RL. Postoperative paraplegia secondary to the use of oxidized cellulose (Surgicel). *J Pediatr Surg*. 2005 Apr;40(4):E9-11.

CASE REPORTS

97. Rushton AR, Shaywitz BA, Duncan CC, Geehr RB, Manuelidis EE: Computed tomography in the diagnosis of Canavan's disease. *Ann Neurol* 10:57-60, 1981.

98. Rigsby CM, Virapongse C, Duncan CC: Positional variability in redundant lumbar nerve-root syndrome. *Surg Neurology* 19:513-516, 1983.

99. Heafner MD, Duncan CC, Kier EL, Ment LR, Scott DT, Kolaski R: Intraventricular hemorrhage in a term neonate secondary to a third ventricular AVM: Report of a case and review of the literature. *J Neurosurg* 63:626-629, 1985.

100. Lohse DC, Duncan CC, Ment LR: Cranial asymmetry and lambdoid synostosis in a sibship. *Neurosurg* 16:836-838, 1985.

101. Jenson HB, Levy SR, Duncan C, McIntosh S: Treatment of multiple brain abscesses caused by *Bacillus cereus*. *Pediatr Infect Dis J* 8:795-798, 1989.

102. Goodwin MD, Persing JA, Duncan CC, Shin JH: Spontaneously infected cephalhematoma: case report and review of the literature. *J Craniofac Surg*. 11:371-375, 2000.

REVIEWS, CHAPTERS, BOOKS

103. Duncan CC, Bennett GW: Positron emission tomography of brain by proton activation. In: *Cerebral Blood Flow and Metabolism*, Gotoh, Najai, Tazaki (eds), pp. 206-207, 1979.

104. Duncan CC, Bennett GW, Piepmeier JM, Ment LR: Cerebral blood flow measurement by proton activation. In: *Procedures of the American Association of Neurological Surgeons*, pp. 1-3, 1980.

105. Collins WF, Duncan CC: The patient with neurologic dysfunction. *Manual of Pre and Post Operative Care*. Am College of Surgeons, pp 648-662, 1980.

106. Ment LR, Scott DT, Ehrenkranz RA, Lange RC, Rothman SG, Duncan CC: Less than 1250 G birth weight neonates: Incidence and prediction of intraventricular hemorrhage with follow-up developmental testing of surviving patients. In: *Perinatal Intracranial Hemorrhage Proceedings*, pp. 711-723, 1980.

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108. Ment LR, Scott DT, Ehrenkranz RA, Rothman SG, Duncan CC: Less than 1250 G birth weight neonates: Follow-up neurologic and developmental testing of survivors. In: *Proceedings of the American Association of Neurologic Surgeons*, pp. 55-56, 1981.

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110. Duncan CC, Ment LR, Lambrecht RM: Radiotracers for cerebral blood flow and emission tomography. In: *Applications of Nuclear and Radiochemistry*, Lambrecht and Morcos (eds), pp. 271-286, 1982.
111. Lambrecht RM, Duncan CC: Device for ramp injection of radiotracers for blood flow measurements by emission tomography. In: *Proceedings of the 3rd World Congress of Nuclear Medicine and Biology*, Raynaud (ed), Volume 3, pp. 2576-2578, 1982.
112. Lambrecht RM, Duncan CC, Shiue C-Y: Design and evaluation of radiotracers for determination of regional cerebral blood flow with PET. In: *Proceedings of the 3rd World Congress of Nuclear Medicine and Biology*, Raynaud (ed), Volume 1, pp. 654-657, 1982.
113. Ment LR, Duncan CC: Intraventricular hemorrhage: A manifestation of altered cerebral blood flow. In: *Concepts in Pediatric Neurosurgery II*, Epstein and Raimondi (eds), pp 104-111, 1982.
113. Duncan CC, Ment LR: Pediatric neurosurgery. In: *Principles of Surgery*, Schwartz (ed), pp. 1823-1826, 1983.
115. Ment LR, Duncan CC: Neonatal neurologic problems. In: *Perinatal Medicine*, Warshaw and Hobbins (eds), pp. 248-276, 1983.
116. Ment LR, Duncan CC, Stewart WB: Local cerebral blood flow and metabolism alteration in the newborn beagle puppy model of intraventricular hemorrhage. In: *Concepts in Pediatric Neurosurgery III*, Raimondi (ed), pp. 108-124, 1983.
117. Ment LR, Duncan CC, Stewart WB, Scott DT, Lambrecht RM: Randomized indomethacin prevention trial with studies of cerebral blood flow and local cerebral glucose utilization on the beagle puppy model of intraventricular hemorrhage. *J Cereb Blood Flow Metab* 3: Suppl 1:284, 1983.
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119. Rescigno A, Lambrecht RM, Duncan CC: Mathematical methods in the formulation of pharmacokinetic models. In: *Tracer Kinetics and Physiologic Modeling*, Lambrecht and Rescigno (eds), pp. 59-119, 1983.
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