

CURRICULUM VITA  
**Daniel Barnet Hier MD MBA FAAN**

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<b>Education</b>	Harvard College, BA, magna cum laude in biochemistry, PBK	1969
	Harvard Medical School, MD, cum laude	1973
	University of Illinois, MBA with specialization in health informatics	2005
<b>Honors</b>	Who's Who in America	2005
	Who's Who in Healthcare	2005
	Who's Who in the Midwest	2005
	Chicago Area Top Doctors-Chicago Consumers' Checkbook	2003
	Who's Who in Science and Engineering	2005
	Castle Connolly Guide to Best Doctors	2005
	Phi Beta Kappa	1969
	Beta Gamma Sigma	2005
	Phi Kappa Phi	2005
	Alpha Omega Alpha	2005
<b>Training</b>	Intern, Medical Service, Bronx Municipal Hospital Center	1973-74
	Resident, Neurology Service, Massachusetts General Hospital (Chief, Raymond D. Adams, MD)	1974-77
<b>Fellowship</b>	Clinical and Research Fellow, Neurology Service Massachusetts General Hospital (Directors, Drs. J.P. Mohr, P.B. Rosenberger)	1977-79
	NINCDS Fellowship F32 NS 05917 Clinical Fellow, Harvard Medical School	1977-79
<b>Academic Positions</b>	Instructor in Neurology, Harvard Medical School	1977-1979
	Assistant Professor of Neurology, Pritzker School of Medicine, University of Chicago	1979-1985
	Associate Professor of Neurology, Pritzker School of Medicine, University of Chicago	1985-1989
	Associate Professor of Neurology, University of Illinois College of Medicine	1989-1991
	Adjunct Associate Professor of Computer Science, Illinois Institute of Technology	1985-89
	Head, Department of Neurology, University of Illinois College of Medicine	1989-2001
	Professor of Neurology, University of Illinois College of Medicine	1991-
	Johns S. Garvin Professor of Neurology at University of Illinois	1995-2003
	Interim Head, Department of Rehabilitation Medicine	1998-2001
	Professor of Bioengineering, University of Illinois	1998-
	Professor of Rehabilitation Medicine, University of Illinois	1998-
	Head, Department of Neurology and Rehabilitation, University of Illinois	2001-2003

<b>Hospital Positions</b>	Neurologist, Massachusetts Rehabilitation Hospital	1977-1979
	Consultant in Neurology, McLean Hospital (Belmont, MA)	1977-1979
	Attending Neurologist, Michael Reese Hospital	1979-1989
	Consultant in Neurology, Drexel Home	1979-1981
	Director of Neurology, Michael Reese Health Plan	1980-1984
	Acting Chairman, Department of Neurology	1985
	Chairman, Dept. of Neurology, Michael Reese Hospital	1986-1989
	Neurologist-in-Chief, University of Illinois Hospital	1989-2003
	Physiatrist-in-Chief, University of Illinois Hospital	1998-2003
Medical Director, Inpatient Rehabilitation Unit	2004-	

**Editorial Boards**

*Neurological Research*  
*Surgical Neurology*  
*MDnet.guide*  
*Datamonitor CNS Panel of Experts*

**Organizations**

American Neurological Association  
 American Academy of Neurology (Fellow)  
 Association of Medical Directors of Information Systems  
 American Medical Informatics Association  
 American Medical Association  
 American Stroke Association  
 National Stroke Association  
 American College of Healthcare Executives  
 Fellow, Chicago Institute of Medicine  
 Health Information Management Systems Society (HIMSS)

**Clinical Informatics Experience**

Inpatient/Outpatient Information Systems Task Force, Patient Care Systems Subcommittee, University of Illinois Hospital	1991-95
Member, Patient Care Information Systems Selection Committee, University of Illinois Hospital, 1993-1994	
Chairman, Physician Advisory Committee to Hospital MIS, University of Illinois Hospital	1991-2000
Chair, CIO Search Committee, University of Illinois Hospital	1994-1995
Member, Search Committee for Assistant Vice Chancellor for Health Informatics and Head, School of Biomedical Visualization and Health Informatics	1995
Member, Executive Management Systems Steering Committee, University of Illinois Hospital	1994-2000
Member, Group on Advanced System Planning,	2000-2001
Chairman, Executive Implementation Steering Committee, for Cerner Electronic Medical Record	1996-2000
Member, Systems Development Life Cycle Committee, University of Illinois	1995
Chairman, Group Practice Information Systems Subcommittee	1995-98
Health Informatics Summit Committee, University of Illinois	2002-
Member, Committee for Electronic Health Record, University of Illinois Hospital	2003-4
Member, Physician Solutions Group, Cerner Corporation	2003-4

**Publications**

- 1 Hass DC, **Hier DB**, Arnason BGW, Young M. On a possible relationship of cyclic AMP to the mechanism of action of nerve growth factor. *Proc Soc Exp Biol Med* 140: 45-57, 1972.
- 2 **Hier DB**, Arnason BGW, Young M. Studies on the mechanism of action of nerve growth factor. *Proc Nat Acad Sci USA* 69:2268-2272, 1972.
- 3 **Hier DB**, Arnason BGW, Young M. Nerve growth factor: relationship to the cyclic AMP system of sensory ganglia. *Science* 182:78-81, 1973.
- 4 **Hier DB**, Mohr JP. Incongruous oral and written naming evidence for a subdivision of Wernicke's aphasia. *Brain Lang* 4:115-126, 1977.
- 5 **Hier DB**, Davis KR, Richardson EP Jr, Mohr JP. Hypertensive putaminal hemorrhage. *Ann Neurol* 1:152-159, 1977.
- 6 Walshe TM, **Hier DB**, Davis KR. The diagnosis of hypertensive intracerebral hemorrhage. *Computerized Tomography* 1:63-69, 1977.
- 7 **Hier DB**, Wiehl AC. Chronic hydrocephalus associated with short stature and growth hormone deficiency. *Ann Neurol* 2:246-248, 1977.
- 8 **Hier DB**, LeMay M, Rosenberger PB, Perlo VP. Developmental dyslexia: Evidence for a subgroup with a reversal of cerebral asymmetry. *Arch Neurol* 35:90-92, 1978.
- 9 **Hier DB**, LeMay M, Rosenberger PB. Autism and unfavorable left-right asymmetries of the brain. *J Autism Dev Disorders* 9:153-159, 1979.
- 10 **Hier DB**. Sex differences in hemispheric specialization: hypothesis for the excess of dyslexia in boys. *Bulletin of the Orton Society* 29:74-83, 1979.
- 11 **Hier DB**. A genetic explanation for no sex difference in spatial ability among Eskimos. *Percept Mot Skills* 48:593-594, 1979.
- 12 Lott IT, Williams RS, Schnur JA, **Hier DB**. Familial amentia with unusual ventricular calcifications and elevated cerebrospinal fluid protein. *Neurology* 29:1571-1577, 1979.
- 13 **Hier DB**, Mogil ST, Rubin NP, Komros G. Semantic aphasia: a neglected entity. *Brain Lang* 10:120-131, 1980.
- 14 **Hier DB**, Atkins L, Perlo VP. Learning disorders and sex chromosome aberrations. *J Ment Def Res* 24:17-26, 1980.
- 15 Rosenberger PB, **Hier DB**. Cerebral asymmetries and verbal intellectual deficits. *Ann Neurol* 8:300-304, 1980.
- 16 **Hier DB**, Rosenberger PB. Focal left temporal lobe lesions and delayed speech acquisition. *Journal of Developmental and Behavioral Pediatrics* 1:54-57, 1980.
- 17 **Hier DB**, Kaplan J. Verbal comprehension deficits after right hemisphere damage. *Appl Psycholing* 1:279-294, 1980.
- 18 Caplan LR, **Hier DB**, Goodwin JA, Ferguson L. Subdural hematoma mimicking other stroke syndromes. *Transactions of American Neurological Association* 105:167-169, 1980.
- 19 **Hier DB**, Kaplan J. Are sex differences in cerebral organization clinically significant? *Behavioral and*

- Brain Sciences* 3:238-239, 1980.
- 20 **Hier DB**, Caplan LR. Drugs for senile dementia. *Drugs* 20 (1): 74-80, 1980.
- 21 **Hier DB**, Crowley Jr WF. Impaired spatial ability in men with hypogonadotropic hypogonadism. *Transactions of American Neurological Association* 105:1-2, 1981.
- 22 Levine DN, **Hier DB**, Calvanio R. Acquired learning disability for reading after left temporal lobe damage in childhood. *Neurology* 31:257-264, 1981.
- 23 Kaplan J, **Hier DB**. Visuospatial deficits after right hemisphere stroke. *American Journal of Occupational Therapy* 36:314-321, 1982.
- 24 Caplan LR, **Hier DB**, Banks G. Stroke and drug abuse. *Stroke* 13: 869-872, 1982.
- 25 Kraus N, Ozdamar O, **Hier DB**, Stein L. Auditory middle latency responses in-patients with cortical lesions. *EEG Journal*. 54:275-287, 1982.
- 26 Ovsiew F, **Hier DB**. Aphasia as a model for schizophrenic speech. *Behavioral and Brain Sciences* 5:611-613, 1982.
- 27 **Hier DB**, Crowley Jr WF. Spatial ability in androgen-deficient men. *NEJM* 306:1202-1205, 1982.
- 28 **Hier DB**, Mondlock J, Caplan LR. Behavioral abnormalities after right hemisphere stroke. *Neurology* 33:337-344, 1983
- 29 **Hier DB**, Mondlock J, Caplan LR. Recovery of behavioral abnormalities after right hemisphere stroke. *Neurology* 33:345-350, 1983.
- 30 Caplan LR, **Hier DB**, D'Cruz I. Cerebral embolism in the Michael Reese Stroke Registry. *Stroke* 14:530-536, 1983.
- 31 **Hier DB**, Thomas C, Shindler AG. A case of subcortical dementia due to sarcoidosis of the Hypothalamus and fornices. *Brain and Cognition* 2:189-198, 1983.
- 32 Gewirth L, Schindler AG, **Hier DB**. Altered patterns of word associations in dementia and aphasia. *Brain and Language* 21:307-317, 1984
- 33 Patel D, **Hier DB**, Thomas C, Hemmati M. Intracerebral hemorrhages secondary to cerebral amyloid angiopathy. *Radiology* 194:397-400, 1984.
- 34 Shindler AG, Caplan LR, **Hier DB**. Intrusions and preservations. *Brain and Language*, 23:148-158, 1984.
- 35 Gorelick PB, **Hier DB**, Benevento L, Levitt S, Tan W. Aphasia after left thalamic infarction. *Archives of Neurology* 41:1296-1299, 1984.
- 36 Gorelick P, Caplan LR, **Hier DB**, Parker SL. Racial differences in the distribution of anterior circulation occlusive cerebrovascular lesions. *Neurology* 34:54-59, 1984.
- 37 Stein RW, Kase C, **Hier DB**, Caplan LR, Mohr JP, Hemmati M. Caudate hemorrhage. *Neurology* 34:1549-1554, 1984.
- 38 **Hier DB**, Hagenlocker K, Shindler AG. Language disintegration in dementia. *Brain and Language* 25:117-133, 1985.

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- 40 **Hier DB**, Stein R, Caplan LR. Cognitive and behavioral deficits after right hemisphere stroke. *Current Concepts in Cerebrovascular Disease* 20:1-5, 1985.
- 41 Caplan LR, Babikian V, Helgason C, **Hier DB**, DeWitt D, Patel D, Stein R. Occlusive disease of the middle cerebral artery. *Neurology* 35:975-982, 1985.
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- 43 Gorelick PB, Caplan LR, **Hier DB**, Patel D, Langenberg P, Pessin MS, Biller J, Kornack D. Racial differences in the distribution of posterior circulation occlusive disease. *Stroke* 16:785-790, 1985.
- 44 Walsh TJ, **Hier DB**, Caplan LR. Fungal infections of the central nervous system: comparative analysis of risk factors and clinical signs in 57 patients. *Neurology* 35:1654-1675, 1985.
- 45 Walsh TJ, **Hier DB**, Caplan LR. Aspergillosis of the central nervous system: Clinicopathological analysis of 17 patients. *Annals of Neurology* 18:574-582, 1985.
- 46 Caplan LR, D'Cruz I, **Hier DB**, Reddy H, Shah S. Atrial size, atrial fibrillation and stroke. *Annals of Neurology* 19:158-161, 1986.
- 47 **Hier DB**, Atkinson GD, Perline R, Hill H, Evans M, Desai B, McCormick WC, Caplan LR. Can a patient database help build a stroke diagnostic expert system? *Medical Informatics* Vol 11, No. 1, 75-81, 1986.
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- 52 Shinar D, Gross CR, **Hier DB**, Caplan LR, Mohr JP, Price TR, Wolf PA, Kase CS, Fishman IF, Barwick JA, Kunitz SC. Interobserver reliability in the interpretation of computed tomographic scans of stroke patients. *Arch Neurol* 44: 149-155, 1987.
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- ingestion a risk factor for ischemic stroke: Results of a controlled-study in middle-aged and elderly stroke patients at three urban medical centers. *Stroke* 18: 359-364; 1987.
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- 60 Collier J, Evens M, **Hier DB**, Li P-Y. Generating case reports for a medical expert system. *International Journal of Expert Systems* 1: 307-328.
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- 62 Hemmati M, Rosengarten J, **Hier DB**. MR imaging in pseudoxanthoma elasticum. *AJNR* 10:S60, 1989.
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- 97 Jao CS, **Hier DB**, Brint SU, Conversion of a machine-dependent expert system into a web-based training tool. *MD Comput* 1998 May-Jun; 15(3): 194-7.
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- 102 Warren S. **Hier DB**. Pavel D. Visual form of Alzheimer's disease and its response to anticholinesterase therapy. *Journal of Neuroimaging*. 8(4): 249-52, 1998
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- 105 Chapman GB, Nelson R, **Hier DB**. Familiarity and time preferences: decision making about treatments

- for migraine headaches and Crohn's disease. *J Exp Psychol-Applied* 1999; 5: 17-34.
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## ABSTRACTS

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Stein RW, Caplan LR, **Hier DB**. Outcome of intracranial hemorrhage: role of blood pressure and location and size of lesions. *Ann Neurol* 14:13A, 1983.

Evens M, Ahlswede T, Hill H, Li P-Y, **Hier DB**. Generating case reports from the Michael Reese Stroke Database. Proceedings of the 1984 Conference on Intelligent Systems and Machines, Rochester MI, pp. 212.1-212.7, April 1984.

Hill H, Chitturi R, Evens M, **Hier DB**. The architecture of a medical decision support system. Proceedings of the 1984 Conference on Intelligent Systems and Machines, Rochester MI, pp. 134-138, April 1984.

Sinha A, Desai B, Evens M, **Hier DB**, Hill H. Making decision support systems self-explanatory. Proceedings COMPSAC, IEEE Press, Chicago IL, pp. 358-362, November 1984.

**Hier DB**, Atkinson G, Perline R, Hill H, Evens M, Caplan LR. Can a patient database help build a stroke diagnosis expert system? Proceedings of the Symposium on Computer Applications in Medical Care, Washington.

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**Hier DB**, Caplan LR, Hill H, Evens M, Sinha A. A micro-computer-based expert system to assist in

localization of anatomic damage after stroke. *Neurology* 34:83A, 1984.

Caplan L, Babikian V, Helgason C, **Hier DB**, DeWitt D, Patel D, Stein R. Middle cerebral artery occlusive disease: clinical and epidemiologic features. *Neurology* 34:200A, 1984.

Kase CS, Robinson RK, Stein RW, DeWitt D, **Hier DB**, Harp DL, Williams JP, Caplan LR, Mohr JP. Anticoagulant-related intracerebral hemorrhage. *Neurology* 34:201A, 1984.

Babikian V, **Hier DB**, Helgason C, Caplan L, Patel D. Middle cerebral artery versus internal carotid artery origin disease: a CT comparison. *Neurology* 34:205A, 1984.

Gorelick PB, **Hier DB**, Benevento L, Levitt S. Aphasia after left thalamic infarction. *Neurology* 34:231A, 1984.

Walsh T, **Hier DB**, Caplan L. Aspergillosis of the central nervous system: clinical and pathological analysis of 17 patients. *Annals of Neurology* 16:153, 1984.

**Hier DB**, Atkinson GD, Hill H, Caplan LR, Perline R. Can a patient data base help build a stroke expert system? Proceedings of Eighth Annual Society for Computer Applications in Medical Care, 1984.

Caplan LR, Kelly M, Kase C, White J, Tatemichi T, Mohr J, Price T, **Hier DB**, Wolf P. Right middle cerebral artery inferior division infarcts: the mirror image of Wernicke's aphasia. *Neurology* 35:121A, 1985.

Gorelick PB, Budzenski C, **Hier DB**, Hermann BP, Benevento L. Thalamic infarcts: neuropsychometric, language, and CT correlates. *Neurology* 35:180A, 1985.

Gorelick PB, **Hier DB**, Caplan LR, Langenberg P. Headache in acute cerebrovascular disease. *Neurology* 35:270A, 1985.

Gorelick PB, Caplan LR, **Hier DB**, Patel D, Langenberg P, Pessin MS, Biller J, Kornack D. Racial differences in the distribution of posterior circulation occlusive disease. *Neurology* 35:277A, 1985.

Li P-Y, Ahlswede T, Curt C, Evens M, **Hier DB**. A text generation module for a decision support system for stroke. Proceedings of the 1985 Conference on Intelligent Systems and Machines, Rochester MI, April 22-24, 1985.

Desai B, Beachy M, Biss K, Evens M, **Hier DB**, Hill H, McCormick W. Comparing Bayes' rule and the nearest neighbor rule for medical diagnosis. Proceedings of the 1985 Conference on Intelligent Systems and Machines, Rochester MI, April 22-24, 1985.

Hill H, Kurt C, **Hier DB**, Evens M. The architecture of the IIT-MRH stroke consultant. Proceedings of the Symposium on Computer Applications in Medical Care, Baltimore MD, pp. 314-319, November 1985.

Atkinson GD, **Hier DB**, McCormick W. Development, refinement, and evaluation of a knowledge-base for a stroke expert system. Proceedings of the Ninth Annual Symposium on Computer Applications to Medical Care, Baltimore MD, pp. 320-324, November 10-13, 1985.

Baew J, **Hier DB**, Evens M, Hill H, Desai B. The relationship between certainty and accuracy for diagnoses based on Bayes' rule. Proceedings of the 1986 Conference on Intelligent Systems and Machines, Rochester MI, April, 1986.

Li P-Y, Evens M, **Hier DB**. Generating medical case reports with linguistic string parser. Proceedings, AAAI, Philadelphia PA, pp. 1069-1073, August 1986.

Mohr JP, Rubenstein LV, Tatemichi TK, Nichols FT, Caplan LR, **Hier DB**, Kase CS, Price TR, Wolf PA.

Blood sugar and acute stroke: the NINCDS pilot stroke data bank. *Stroke* (In Press).

Curt C, **Hier DB**, Evens M. Evaluation of alternative formats for computer-generated medical case reports. Proceedings of the Second International Conference on Human-Computer Interaction, Honolulu HI, August 1987.

Neapolitan R, Georgakis C, Evens M, Kenevan J, Jiwani H, **Hier DB**. Using set covering and uncertain reasoning to determine treatments. Proceedings, SCAMC, Washington DC, November 1987.

Neapolitan R, Evens M, Jiwani H, Kenevan J, Moore L, Rinaldo F, **Hier DB**. Applying reasoning under uncertainty to set covering. Proceedings of the ESD/SMI Conference on Expert Systems, Dearborn MI, pp. 171-183, June 1987.

Peeters M, Evens M, **Hier DB**. A comparison of the generalized set-covering algorithm with a decision tree algorithm for the diagnosis of stroke. Proceedings of the ESD/SMI Conference on Expert Systems, Dearborn MI, pp. 245-259, June 1987.

Chodosh EH, Kase CS, Wolf PA, Foulkes MA, Mohr JP, Hier DB, Price TR. Silent or unreported stroke detected on computed tomographic scan: The Stroke Data Bank experience. *Ann Neurol* 22: 135; 1987.

Caplan LR, Schmahmann JD, Basquis GD, Kase CS, Feldman E, Greenberg JP, Gorelick PB, Helgason C, **Hier DB**. Caudate infarcts. *Neurology* 38 (1):263, 1988.

Gorelick PB, Rodin MB, Langenberg P, **Hier DB**, Costigan J. Alcohol consumption, cigarette smoking, and the risk of ischemic stroke. *Neurology* 39 (1):162, 1989.

Tatemichi TK, Foulkes MA, Mohr JP, Hewitt JR, **Hier DB**, Price TR, Wolf PA. Dementia in stroke survivors. Fourteenth Annual International Joint Conference on Stroke and Cerebral Circulation, San Antonio TX, February 9-11, 1989.

Gorelick PB, Brody J, Cohen D, **Hier DB**, Flowerdew G, Dollear W, Forman H, Shapiro R. Neuroepidemiology of multi-infarct dementia: a case-control study. Research Group on Neuroepidemiology Meeting, Chicago IL, April 1989.

Wang GN, Evens M, **Hier DB**. LITREF: A microcomputer based information retrieval system supporting stroke diagnosis: design and development. Proceedings of the Second IEEE Symposium on Computer Based Medical Systems, Minneapolis MN, and June 25-27, 1989.

Bobis K, Evens M, **Hier DB**. Automating the knowledge acquisition process in medical expert systems. Proceedings of the Second IEEE Symposium on Computer Based Medical Systems, Minneapolis MN, June 25-27, 1989.

**Hier DB**. Lacunar infarction: clinical-computed tomography correlations in the Stroke Data Bank. *Stroke* 21: AZ, 1990.

**Hier DB**, Rinaldo FR, Evens M, Strutz R, Moore L. MAIESTRO: The Michael Reese Hospital- Illinois Institute of Technology expert system for stroke. Annual Medical Informatics Conference, Chicago IL, March 23-25, 1990.

Wang G-N, Evens MA, **Hier DB**. On the evaluation of LITREF: a PC-based information retrieval system to support stroke diagnosis. Proceedings of Third IEEE Computer Based Medical Systems Conference, Chapel Hill NC, June 3-6, 1990.

Wolf PA, Foulkes M, O'Neal M, Kase CS, Licata-Gehr E, Mohr JP, Price TK, **Hier DB**. Predictors of stroke outcome: The Stroke Data Bank Study (SDB). *Stroke* 21: I-83, 1990.

Moore L, Evens M, **Hier DB**. Physician use of an expert system for stroke in a clinical setting. Proceedings of the Second IASTED International Symposium, Hawaii, August 1990.

**Hier DB**, Foulkes MA, Swiontoniowski M, Sacco RL, Gorelick PB, Mohr JP, Price TR, Wolf PA. Stroke recurrence within 2 years after ischemic infarction. *Stroke* 22(2):155-161, February 1991.

**Hier DB**, Jao J, Evens M. An interactive tool for teaching vascular anatomy of the brain. *Neurology* 42 (Supplement): 381, 1992.

Steinke W, Sacco RL, Mohr JP, Foulkes MA, Wolf PA, Tatemichi TK, Price TR, **Hier DB**. Thalamic Stroke: presentation and prognosis of infarcts and hemorrhages. *Ann Neurol* 30: 282-283; 1991.

Jao J, Evens M, **Hier DB**. A hypermedia-based medical information system for stroke. Proceedings of the Twenty-third Pittsburgh Conference on Modeling and Simulation, Pittsburgh PA, April 30-May 1, 1992.

Jao J, Evens M, **Hier DB**. Knowledge representation and data retrieval in a medical expert system. Proceedings of the Fourth Midwest Artificial Intelligence and Cognitive Science Society Conference, Utica IL, pp. 26-30, May 3-4, 1992.

**Hier DB**, Jao CS. Applying hypermedia and expert system technology to the neurological consultation. Proceedings of the Sixth Annual IEEE Computer-Based Medical Systems Symposium, Ann Arbor MI, June 13-16, 1993.

Jao CS, Brint SU, **Hier DB**. Nerve expert: a frame-based educational system for peripheral neurology. Proceedings of the Seventeenth Annual Symposium on Computer Applications in Medical Care, Washington DC, November 1, 1993.

Brint SU, Alkhalidi HR, Vatel B, **Hier DB**: Significance of MCA flow asymmetries in TCD examinations. *Neurology* 43: A200; 1993.

Kittner, SJ, Dambrosia JM, Tuhim S, Price TR, Sloan MA, Wolf PA, Mohr JP, **Hier DB**. Infarcts with a cardiac source of embolism in the NINDS Stroke Data Bank: a multivariate predictor. *Stroke* 25: 246; 1994.

Chiu, DY, Chang C, Evens MW, Chern JC, **Hier DB**, Trace DA, Naeymi-Rad F. A Complete Hypermedia Medical Decision Analysis Support System. The 7th IEEE Symposium on Computer-Based Medical Systems, June 1-12, 1994.

Jao, CS., **Hier DB**, Brint, SU. Combining a patient registry with a disease knowledge base: The University of Illinois Intelligent Stroke Registry, JAMIA Symposium Supplement, p. 980. SCAMC Proceedings, 1995.

Laatsch L, Brett A, Brint SU, **Hier DB**. An Extended Mental Status Tool for Rehabilitation: The Neurocognitive Assessment Form. AAPM & R, March 7, 1996.

Sychra JJ, Blend MJ, Brint SU, **Hier DB**, Jobe T. A New Parametric Analysis of SPECT HMPAO Brain Activation Images. The Society of Nuclear Medicine 44<sup>th</sup> Annual Meeting, 1997.

Pavel DG, **Hier DB**, Quintana JC, Tom M, Krasuki J, Gaviria M. Evaluation of brain SPECT patterns of dementias using statistic parametric mapping (SPM). *Radiology* 1998; 209P: 1544.

Czlonskowska A, Rygliewicz D, Cichy SS, Lechowicz W, **Hier DB**. Outcome of ischemic stroke in Poland and in the United States in regard to comorbidity and stroke risk factors. *Neurology* 50: P02086.

Jao CS, **Hier DB**, Brint SU. An electronic textbook for a neurology clerkship. *Neurology*; 2000; 54: A45.

Jao CS, **Hier DB**, Brint SU. An interactive learning textbook for neurology clerkship program. Ann Neurol 50: S63, 2001.

Jao CS, **Hier DB**, Dollear W, Fu W: Porting a mental status expert to a mainstream programming environment. JAMIA Symposium, 2001, p. 933.

**Hier DB**. Can computer sciences change medicine? Proceedings of 13<sup>th</sup> Annual Midwest Artificial Intelligence and Cognitive Science Conference. April 13, 2002, Chicago IL.

Jao CS, Dollear W, **Hier D**. Portable MMSE: a pocket-sized mini-mental state examination in handheld computers to assess cognitive impairment in elderly adults. Ann Neurol 52: S67-S68; 2002.

### **Research Grants**

"Studies on Dementia," Martin R. Rosenthal Award, Michael Reese Hospital (\$20,000)

"Studies on Dementia," Retirement Research Foundation (\$10,000)

"A Longitudinal Study of Alzheimer's Disease," Alzheimer Disease and Related Disorders Association (\$10,000)

▷ Data Bank, NINCDS, Co-Principal Investigator (\$560,000)

"A Computer-based Expert System for Stroke," AMOCO Foundation (\$25,000)

"A Computer-based Expert System for Stroke," NIH RO1 NS25811 (\$180,000)

" Validation of an Expert System for Stroke, AHA, (\$120,000)

### **HOSPITAL COMMITTEES**

Hospital Utilization Review Committee, Michael Reese Hospital, 1984-1985

Research Committee, Michael Reese Hospital, 1981-1984, 1988

Search Committee, Chairman of Rehabilitation Medicine Department, Michael Reese Hospital, 1985

Ad Hoc Committee to Study Academic Affairs, Michael Reese Hospital, 1985

Neurology Self-Study Committee, Michael Reese Hospital, 1985

Medical Board, Michael Reese Hospital, 1985-1989

Library Committee, Michael Reese Hospital, 1983-1984

Department of Neurology, Membership Committee, 1979-1989

Department of Neurology, Audit Committee, 1979-1989

Academic Council, Michael Reese Hospital, 1985-1988

Advisory Council, Michael Reese Hospital, 1985-1989

Task Force on Medicine, Michael Reese Hospital, 1985-1986

Joint Search Committee for Chairman of Psychiatry (Michael Reese Hospital-University of Chicago), 1986-1987

Chairman, Task Force on Neuro-Musculo-Skeletal Disorders, Michael Reese Hospital, 1988

House Staff Committee, University of Illinois Hospital, 1990-1992

Quality Assurance Council, University of Illinois Hospital, 1990-1991

Executive Committee of the Medical Staff, University of Illinois Hospital, 1990-1995

Inpatient/Outpatient Information Systems Task Force, Patient Care Systems Subcommittee, University of Illinois Hospital, 1991-1995

Chairman, Physician Advisory Committee to Hospital MIS, University of Illinois Hospital, 1991-

Rehabilitation and Therapeutic Services Committee, 1991-1992

Ambulatory Services Committee, University of Illinois Hospital, 1992-1993

Committee on Medical Records, University of Illinois Hospital, 1994-1994

Chair, CIO Search Committee, University of Illinois Hospital, 1994-1995

Member, Search Committee for Assistant Vice Chancellor for Health Informatics and Head School of Biomedical Visualization and Health Informatics, 1995

Member, Executive Management Systems Steering Committee, University of Illinois Hospital, 1994-2000

Member, Group on Advance System Planning, 2000-2001

Member, Patient Care Information Systems Selection Committee, University of Illinois Hospital, 1993-1994

Ad Hoc Committee for Group Practice, Executive Committee of Medical Staff, 1993-1995

Chairman, Executive Implementation Steering Committee, for Cerner Electronic Medical Record, 1996-2000

Executive Committee of Medical Staff, University of Illinois Hospital, 1998-

Rehabilitation Services Committee, University of Illinois Hospital, 1999-

## **UNIVERSITY COMMITTEES**

Search Committee, Chairman of Ophthalmology, University of Illinois College of Medicine at Chicago, 1989

Search Committee, Chairman of Neurosurgery, University of Illinois College of Medicine at Chicago, 1990

Task Force on Neurosciences, University of Illinois College of Medicine at Chicago, 1990

Curriculum Committee, University of Illinois College of Medicine at Chicago, 1990-1991

Medical Service Plan Executive Committee, University of Illinois College of Medicine at Chicago, 1991

Chair, Search Committee, Chairman of Physical Medicine and Rehabilitation Medicine, University of Illinois, College of Medicine at Chicago, 1991

Executive Committee, University of Illinois College of Medicine at Chicago, 1992-1993

Executive Committee Alternate, University of Illinois College of Medicine at Chicago, 1993-1994

Ad Hoc Committee on Proposal for Bioengineering Proposal for Whitaker Foundation, 1994

Search Committee for Associate Director for the Office of Research Services, 1993-1994

Neuroscience Strategic Planning Committee, College of Medicine, 1993-

Member, Systems Development Life Cycle Committee, 1995-

Member, Committee on Committees, 1995-1997

Chairman, Physicians Advisory Committee to Hospital Information Systems, University of Illinois Hospital, 1994

Chairman, Group Practice Information Systems Subcommittee

Committee of Systems Software Life Cycle Policies, 1995

Search Committee, Executive Director of Physicians Group Practice, 1996

College Executive Committee, Regular-Clinical Representative, College of Medicine 1996-

Search Committee, Chairman of Ophthalmology, 1997

Chicago Executive Committee, College of Medicine, 1996 - 1997

Committee on Committees, College of Medicine, 1997 - 1998

College Executive Committee, College of Medicine, 1999-2000

Chicago Executive Committee, 1998-99

Chairman, College of Medicine Selection Committee, UIC Award for Teaching Excellence, 1997-

Search Committee, Chairman of Radiology, 1998

Clinical Conflict Committee, 2002-2004

Health Informatics Summit Committee, 2002-

#### **DOCTORAL CANDIDATE COMMITTEES**

Howard Hill, IIT, An Expert System for Stroke Diagnosis, 1985

Laura Pedelty, University of Chicago, Gesture in Aphasia, 1986

Frank Rinaldo, IIT, Parsing of Text for a Production Rule Expert System for Stroke, 1989

Frank Wang, IIT, A Literature Retrieval System for a Stroke Expert System, 1989

Kenneth Bobis, IIT, The Integration of Expert System and Neural Network Techniques in Word Association Examination Administration, 1991

Loretta Moore, IIT, A Methodology for the Evaluation of the Human-Computer Interface of Medical Expert Systems, 1991

Peter Che, IIT, An Expert System Based on Causal Probabilistic Networks, 1991

Johnson Jao, IIT, An Expert System to Teach Vascular Anatomy of the Brain, 1991

Deng-Yiv Chiu, IIT, A Complete Hypermedia Medical Decision Analysis Support System, 1994

Jun Wang, UIC, Functional Magnetic Resonance Imaging (Chair).

Karen Baldwin. College of Nursing, UIC. An Exploratory Method of Data Retrieval from the Electronic Medical Record for the Evaluation of Quality in Healthcare. November 2003.

### **SOFTWARE REVIEWS**

**Hier DB.** ePocrates Rx Comes to the Desktop. MDNetguide. July 2003; 5 (4): 45-46.

### **MASTER'S THESIS RESEARCH COMMITTEES**

Parasarathy Thirumula, UIC, Motor Reorganization after Stroke: an fMRI Study, 2001

### **NIH COMMITTEES**

Ad Hoc site visit, Dementia Center, University of Western Ontario, March 1985

Ad Hoc site visit, Aphasia Center, Boston University, May 1985

### **MISCELLANEOUS**

Neurologic Consultant, AMA Video Clinic, "Stroke," 1987

Medical Advisor, "Art and Brain" Symposium, Art Institute, Chicago IL, May 12-14, 1988

*Top Doctors in Chicago*, Chicago Magazine, January 1993

Member, Chicago-Greater Illinois Chapter National Multiple Sclerosis Society, Professional Advisory Committee, 1994-

National Stroke Association Fellowship Review Committee, 1995

Neurologic Consultant, Video Interview, "Coding for ICD-9-CM: Spinal Procedures, Strokes, Arthroscopy and Other Procedures, May 4, 1995

Chicago Town Meeting Participant, Chicago Historical Society, WGN-TV (Channel 9), "Alzheimer's Disease," September 23, 1995

Participant in Residency Director Panel, Ninth Annual Preparing for Residency Interviews Seminar, ISMS-MSS Illinois State Medical Society, Oak Brook Marriott Hotel, Oak Brook, Illinois, October 14, 1995

*Best Stroke Doctors in America*, Good Housekeeping, March 1996

*Class Act Award* presented by: Hospital Personnel for the University of Illinois Hospital at Chicago, May, 1996

Illinois Branch of the Orton Dyslexia Society, Advisory Council Member, 1999

Castle Connolly Guide, **How To Find The Best Doctors**: Chicago Metro Region, February 1999, 2002

Ad Hoc Review Panel: Technology Development Bridge, Illinois Coalition. Proposal of NEURONAUTICS. January 11, 2001.

Physician Advocate, [www.epocrates.com](http://www.epocrates.com), 2001.

Department of Neurology recognized by **US News and World Report** as one of top 50 in US continuously between 1993 and 2003

Named in "Top Chicago Doctors", Consumer **Checkbook**, 2003.

### FELLOWS TRAINED

With Dr. Louis R. Caplan	Dr. Philip Gorelick	1982-1983
	Dr. Elizabeth Zaraspe-Yoo	1982-1983
	Dr. Cathy Helgason	1983-1984
With Dr. Philip Gorelick	Dr. Michael Kelly	1984-1985
	Dr. Michael Swiontoniowski	1985-1987
	Dr. Carlos Mangone	1989-1990

### SUPERVISION OF MEDICAL STUDENT RESEARCH

Debra J. Babcock  
Melissa Tom  
William Yoon  
Andrew White  
Pooja Khatri  
Ali Naseem

### MULTI MEDIA TITLES PRODUCED

VATT: Vascular Anatomy Teaching Tool 1993  
MSE: Mental Status Expert 1995  
Nerve Expert 1995  
Stroke Expert 1995  
SA: Symptom Analyzer 1995  
Brain Animations 1994  
Cerebrovascular Disease: Pathophysiology and Clinical Manifestations 1995  
Neurology Clerkship CD-ROM, 1998.

### SOFTWARE DEVELOPED AND PUBLISHED

**Mental Status Expert**, Listed in the Biotechnology Software Directory, Mary Ann Liebert, Inc. 1996, Larchmont, NY

**Nerve Expert**, Listed in the Biotechnology Software Directory, Mary Ann Liebert, Inc. 1996, Larchmont, NY

**Stroke Expert and Vascular Anatomy Teaching Tool**, Listed in the Biotechnology Software Directory, Mary Ann Liebert, Inc. 1996, Larchmont, NY

## **PARTICIPATION IN PHARMACEUTICAL TRIALS**

Persantine for Stroke Prevention (Ingelheim-Boehringer)	1980
Trental for Prevention of Stroke Progression (Hoechst-Roussel)	1983
Ticlopidine for Prevention of Recurrent Stroke (Syntex)	1984
Physostigmine for Alzheimer's Disease (Forest Laboratory)	1988
Gabapentin Monotherapy for Epilepsy (Parke Davis)	1994
Intravenous fosphenytoin for status epilepticus (Parke-Davis)	1994
Topiramate for refractory seizures (McNeil)	1990
UCB for Refractory seizures (UCB)	1994
Propentofylline for vascular dementia and Alzheimer's disease (Hoechst)	1996
Vanguard VML 251/96/08 for acute migraine	1997
Vanguard VML 251/98/08 for acute migraine	1997
Prevention of Alzheimer's disease in minimal cognitive impairment (Merck)	1998
MINT: Metrifonate for dementia (Bayer)	1997
TASMAR in Parkinson's disease (Roche)	1997
NGF for diabetic neuropathy (K0718, Genentech)	1997
Idebenone for dementia (CV619, Takeda)	1997
Rizatriptan for adolescent migraine (Merck)	2001