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Education

<u>Year(s)</u>	<u>Degree</u>	<u>Field of Study</u>	<u>Institution</u>
1984	BSc. (summa cum laude)	Physics	University of Toronto, Toronto
1988	MSc.	Theoretical Physics Charles J. Lumsden	University of Toronto, Toronto
1989	M.D.		University of Toronto, Toronto

Postdoctoral Training

<u>Year(s)</u>	<u>Title</u>	<u>Specialty/Discipline</u>	<u>Institution</u>
1989-1990	Internship	Rotating	St. Paul's Hospital Vancouver BC Canada
1990-1994	Residency	Radiology	Vancouver General Hospital, Vancouver BC Canada
1994-1996	Fellowship	Neuroradiology & Pediatric Neuroradiology	University of California, San Francisco

Faculty Academic Appointments

<u>Year(s)</u>	<u>Academic Title</u>	<u>Department</u>	<u>Academic Institution</u>
1996-1998	Assistant Professor	Radiology	University of California, San Francisco
1998-2002	Instructor	Radiology	Harvard Medical School
2002- 2005-	Assistant Professor	Radiology	Harvard Medical School Member of the Affiliated Faculty of the Harvard-MIT Division of Health Sciences and Technology
2007- 2007-	Associate Professor	Radiology	Harvard Medical School
	Associate Professor	Radiology	Member of the Affiliated Faculty of the Harvard-MIT Division of Health Sciences and Technology

Appointments at Hospitals/Affiliated Institutions

<u>Year(s)</u>	<u>Position Title</u>	<u>Institution</u>
1996-1998	Assistant Radiologist	University of California, Medical Center, San Francisco
1998-2002	Assistant Radiologist	Radiology Massachusetts General Hospital
2002-	Associate Radiologist	Radiology Massachusetts General Hospital

Major Administrative Leadership Positions

<u>Year(s)</u>	<u>Position Title/Institution</u>
1996-1998	Director, MRI Protocol Development, Neuroradiology Section, UCSF
1999-2000	Director, Neuroradiology MRI Protocol Development, Massachusetts General Hospital
2000-	Director, Pediatric Neuroradiology, Massachusetts General Hospital
2003-2008	Director Advanced MRI Imaging CME Course, Harvard Medical School
2004-2009	Chief, Division of Pediatric Radiology
2005	Director, Pediatric Radiology Review Course, Harvard Medical School
2009	Director of Fetal and Neonatal Neuroimaging Research, Department of Radiology, CHB
2009-	Founding Director, Fetal-Neonatal Neuroimaging & Developmental Science Center, Children's Hospital, Boston

Committee Service

<u>Year(s) of Membership</u>	<u>Name of Committee</u>	<u>Institution/Organization</u>
<i>Local</i>		
2000-2002	Pediatric Friendly Task Force	Massachusetts General Hospital
2001-2003	Committee to Improve Safety of Neonatal MR Imaging	Massachusetts General Hospital
2003-2005	Subcommittee on Review of Research Proposals (SRRP) of the MGH Executive Committee on Research (ECOR)	Massachusetts General Hospital
<i>National</i>		
2000-2001	Committee to Develop Practice Parameters in Neonatal Neuroimaging (Guidelines accepted Feb 2002 and reaffirmed 2005)	National Institute of Health
2001-2009	Research Committee	American Soc Pediatric Neuroradiology (ASPNR)
2005-	NIMH Council Work Group on MRI Research Practices	National Institute of Mental Health
2006	Workshop on Biomarkers of Epileptogenesis	NINDS
2008-2009	Executive Board	American Soc Pediatric Neuroradiology
2009-2010	Research Committee Chair	American Soc Pediatric Neuroradiology
<i>International</i>		
2006-2010	Annual Meeting Program Committee	International Soc of Magnetic Resonance in Medicine

Professional Societies

<u>Year(s) of Membership</u>	<u>Society Name</u>
1990-	Radiological Society of North America
1994-	American Society of Neuroradiology
1997-	International Society of Magnetic Resonance In Medicine
1998-	American Medical Association
1999-	American Society of Pediatric Neuroradiology (ASPNR)
2000-	Canadian Association of Radiologists
2003-	The Society for Pediatric Radiology
2003-	Society for Neuroscience
2005-2008	American Society of Functional Neuroradiology

Honors and Prizes

<u>Year</u>	<u>Name of Honor/Prize, Awarding Organization</u>
1980-1984	Faculty Scholar, University of Toronto
1980-1984	Open Admission Scholarship, University of Toronto
1981	Brant Award, University of Toronto
1981	Mary Cowen Rowell Scholarship, University of Toronto
1981	Summer Research Scholarship, University of Toronto
1982	Edward Blake Scholarship in Physics, University of Toronto
1983	Susan D. Massey Scholarship in Science, University of Toronto
1984	Honors BSc. with High Distinction, University of Toronto
1984	Sir J.C. McLennan Prize in Physics, University of Toronto
1984	Dr. W. Clark Horning Scholarship, University of Toronto
1985	National Science and Engineering Research Council Postgraduate Scholarship in Physics
1986	I'Anson Scholarship, University of Toronto Medical School
1987	George Brown Memorial Award for Research Accomplishment
1988	George Brown Memorial Award for Research Accomplishment
1992	Third Prize in Congress Award Session at the Canadian Association of Radiologists Annual Meeting
1996	RSNA Research Fellowship, ASNR Research Fellowship in Basic Science (declined in order to accept the RSNA Research Fellowship)
2001-2003	Claflin Distinguished Scholar Award (Massachusetts General Hospital)
2006	Caffey Award for Best Clinical Science Paper at the joint meeting of the Society for Pediatric Radiology and European Radiology Society (first author)
2006	Caffey Award for Best Poster at the joint meeting of the Society for Pediatric Radiology and European Radiology Society (senior author)
2007	Associate Professor, Harvard Medical School
2007	Derek Harwood-Nash Award from the American Society of Pediatric Neuroradiology for best Pediatric Neuroradiology paper presented at ASNR 2007
2008	Nominated for outstanding clinician award, MGH
2008	Best lecture, Advanced Brain MRI Course at ISMRM 2008
2009	First incumbent of the Children's Hospital Boston (CHB) Chair in Neonatology

Report of Scholarship

1. **Grant PE**, Lumsden CJ. Fractal Analysis of Renal Cortical Perfusion. *Investigative Radiology* 1994;29:16-23.
2. Wald LL, Carvajal L, Moyer SE, Nelson SJ, **Grant PE**, Barkovich AJ, Vigneron DB. Phased Array Detectors and an Automated Intensity Correction Algorithm for High Resolution MR Imaging of the Human Brain. *Magn Reson Med* 1995;34:433-439.
2. Cahoon P, **Grant E**. Telemedicine and Shared Multidimensional Workspaces. *ACM Siggraph, Computer Graphics* 1996;30(1).
3. Barkovich AJ, Kuzniecky RI, Bollen AW, **Grant PE**. Focal transmantle dysplasia: a specific malformation of cortical development. *Neurology* 1997;49:1148-1152.
4. **Grant PE**, Barkovich AJ, Wald L, Dillon WP, Laxer KD, Vigneron D. High Resolution Surface Coil Imaging of Cortical Lesions in Medically Refractory Epilepsy: A Prospective Study. *AJNR Am J Neuroradiol* 1997;18:291-301.
5. Parsa CF, **Grant E**, Dillon WP, du Lac S, Hoyt WF: Absence of the abducens nerve in Duane's syndrome verified by magnetic resonance imaging. *Am J Ophthalmology* 1998;125(30):399-401.
6. Carter SR, Seiff SR, **Grant PE**, Vigneron DB. The Asian lower eyelid: a comparative anatomic study using high-resolution magnetic resonance imaging. *Ophthal Plast Reconstr Surg* 1998 Jul;14(4):227-34
7. Russo C, Fischbein N, **Grant E**, Prados M. Late Radiation Injury Following Hyperfractionated Craniospinal Radiotherapy for Primitive Neuroectodermal Tumor. *Int J Radiation Oncology Biol Phys* 1999;44(1):85-90.
8. Tanabe SM, **Grant PE**, Cosgrove GR, Hoch DB, Cole AJ. Delayed Diagnosis of Lesional Epilepsy: Utility of Modern Imaging. *Neurol Clin Neurophysiol* 2000;2000(1A):2-7.
9. Henry RG, Vigneron DB, Fischbein NJ, **Grant PE**, Day MR, Noworolski SM, Star-Lack JM, Wald LL, Dillon WP, Chang SM, Nelson SJ. Comparison of relative cerebral blood volume and proton spectroscopy in patients with treated gliomas. *AJNR Am J Neuroradiol.* 2000 Feb;21(2):357-66.
11. Gleeson JG, Luo RF, **Grant PE**, Guerrini R, Huttenlocher PR, Berg MJ, Ricci S, Cusmai R, Wheless JW, Berkovic S, Scheffer I, Dobyns WB, Walsh CA. Genetic and neuroradiological heterogeneity of double cortex syndrome. *Ann Neurol* 2000;47(2): 265-9.
12. Hong SE, Shugart YY, Huang DT, Shahwan SA, **Grant PE**, Hourihane JO, Martin NDT, Walsh CA. Autosomal recessive lissencephaly with cerebellar hypoplasia is associated with human RELN mutation. *Nat Genet* 2000;26(1):93-96.
13. Ment LR, Bada HS, Barnes P, **Grant PE**, Hirtz D, Papile LA, Pinto-Martin J, Rivkin M, Slovis TL. Practice parameter: neuroimaging of the neonate: report of the Quality Standards Subcommittee of the American Academy of Neurology and the Practice Committee of the Child Neurology Society. *Neurology.* 2002 Jun 25;58(12):1726-38.
14. Gelal FM*, **Grant PE**, Fischbein NJ, Henry RG, Vigneron DB, Barkovich AJ. The role of isotropic diffusion MRI in children under 2 years of age. *Eur Radiol.* 2001;11(6):1006-14.
*visiting foreign fellow supervised by Dr. Grant.
15. **Grant PE**, He J, Halpern EF, Wu O, Schaefer PW, Schwamm LH, Budzik RF, Sorensen AG, Koroshetz WJ, Gonzalez RG. Frequency and clinical context of decreased apparent diffusion coefficient reversal in the human brain. *Radiology.* 2001 Oct;221(1):43-50.
16. Piao X, Basel-Vanagaite L, Straussberg R, **Grant PE**, Pugh EW, Doheny K, Doan B, Hong SE, Shugart YY, Walsh CA. An autosomal recessive form of bilateral frontoparietal polymicrogyria maps to chromosome 16q12.2-21. *Am J Hum Genet.* 2002 Apr;70(4):1028-33.
17. Takeoka M, Soman TB, Yoshii A, Caviness VS Jr, Gonzalez RG, **Grant PE**, Krishnamoorthy KS. Diffusion-weighted images in neonatal cerebral hypoxic-ischemic injury. *Pediatr Neurol.* 2002 Apr;26(4):274-81.

18. Yoshii A, Krishnamoorthy KS, **Grant PE**. Abnormal Cortical Development Shown by 3-D MRI in Prader-Willi Syndrome. *Neurology*. 2002 Aug 27;59(4):644.
19. Chang BS, Piao X, Bodell A, Basel-Vanagaite L, Straussberg R, Dobyns WB, Qasrawi B, Winter RM, Innes AM, Voit T, **Grant PE**, Barkovich AJ, Walsh CA. Bilateral frontoparietal polymicrogyria: clinical and radiological features in 10 families with linkage to chromosome 16. *Ann Neurol*. 2003 May;53(5):596-606.
20. Rajab A, Mochida GH, Hill A, Ganesh V, Bodell A, Riaz A, **Grant PE**, Shugart YY, Walsh CA. A novel form of pontocerebellar hypoplasia maps to chromosome 7q11-21. *Neurology*. 2003 May 27;60(10):1664-7.
21. Doherty CM, Oster J, **Grant PE**, Simon M, Cole AJ. Diffusion weighted imaging abnormalities in the splenium after seizures. *Epilepsia*. 2003 Jun;44(6):852-4.
22. Modlin JF, **Grant PE**, Makar RS, Roberts DJ, Krishnamoorthy KS. Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 25-2003. A newborn boy with petechiae and thrombocytopenia. *N Engl J Med*. 2003 Aug 14;349(7):691-700.
23. Takahashi T, Kinsman S, Makris N, **Grant E**, Haselgrove C, McInerney S, Kennedy DN, Takahashi T, Fredrickson K, Mori S, Caviness VS. Semilobar holoprosencephaly with midline 'seam': a topologic and morphogenetic model based upon MRI analysis. *Cereb Cortex*. 2003 Dec;13(12):1299-312.
24. Takahashi Ts, Kinsman S, Makris N, **Grant E**, Haselgrove C, McInerney S, Kennedy DN, Takahashi T, Fredrickson K, Mori S, Caviness VS. Holoprosencephaly-Topologic variations in a Liveborn series: A general model based upon MRI analysis. *J Neurocytol*. 2004 Jan;33(1):23-35.
25. Sheen VL, Ganesh VS, Topcu M, Sebire G, Bodell A, Hill RS, **Grant PE**, Shugart YY, Imitola J, Khoury SJ, Guerrini R, Walsh CA. Mutations in ARFGEF2 implicate vesicle trafficking in neural progenitor proliferation and migration in the human cerebral cortex. *Nat Genet*. 2004 Jan;36(1):69-76.
26. Ozsunar Y, **Grant PE***, Huisman TAGM, Schaefer PW, Wu O, Sorensen AG, Koroshetz WJ, Gonzalez RG. Evolution of Water Diffusion and Anisotropy in Hyperacute Stroke: Significant Correlation between Fractional Anisotropy and T2. *AJNR Am J Neuroradiol*. 2004 May;25(5):699-705.*
co-first authors
27. Chang BS, Piao X, Giannini C, Cascino GD, Scheffer I, Woods CG, Topcu M, Tezcan K, Bodell A, Leventer RJ, Barkovich AJ, **Grant PE**, Walsh CA. Bilateral generalized polymicrogyria (BGP): a distinct syndrome of cortical malformation. *Neurology*. 2004 May 25;62(10):1722-8.
28. Doherty CP, Cole AJ, **Grant PE**, Fischman A, Dooling E, Hoch DB, White TH, Cosgrove GR. Multimodal longitudinal imaging of focal status epilepticus. *Can J Neurol Sci*. 2004 May;31(2):276-81.
29. **Grant PE**. Structural MR Imaging. *Epilepsia*. 2004;45 Suppl 4:4-16.
30. Mullins ME, **Grant PE**, Wang B, Gonzalez RG, Schaefer PW. Parenchymal abnormalities associated with cerebral venous sinus thrombosis: assessment with diffusion-weighted MR imaging. *AJNR Am J Neuroradiol*. 2004 Nov-Dec;25(10):1666-75.
31. Shiraishi H, Stufflebeam SM, Knake S, Ahlfors SP, Sudo A, Asahina N, Egawa K, Hatanaka K, Kohsaka S, Saitoh S, **Grant PE**, Dale AM, Halgren E. Dynamic statistical parametric mapping for analyzing the magnetoencephalographic epileptiform activity in patients with epilepsy. *J Child Neurol*. 2005 Apr;20(4):363-9.
32. **Grant PE**. Can noninvasive imaging of biomarkers improve clinical grading of pediatric brain tumors? *Nat Clin Pract Oncol*. 2005 Jul;2(7):336-7.
33. Tan WH, Eichler FS, Hoda S, Lee MS, Baris H, Hanley CA, **Grant PE**, Krishnamoorthy KS, Shih VE. Isolated sulfite oxidase deficiency: a case report with a novel mutation and review of the literature. *Pediatrics*. 2005 Sep;116(3):757-66.
34. **Grant PE**. Imaging the developing epileptic brain. *Epilepsia*. 2005;46 Suppl 7:7-14.

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36. Dickerson BC, Holtzman D, **Grant PE**, Tian D. A 61-year-old woman with seizure, disturbed gait, and altered mental status. *Case records of the Massachusetts General Hospital. Case 36-2005*. *N Engl J Med*. 2005 Nov;353(21):3371-80.
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38. **Grant PE**, Gallagher J, Gonzalez RG, Borsook D. Adriamycin Injection into the Medial Cord of the Brachial Plexus: CT-Guided Targeted Pain Therapy. *Pain Med*. 2008 Jan-Feb;9(1):83-7.
39. Nishida M, Makris N; Kennedy DN; Vangel M; Fischl B; Krishnamoorthy KS, Caviness VS, **Grant PE**: Detailed semiautomated MRI based morphometry of the neonatal brain: preliminary results. *Neuroimage* 2006;32:1041.
40. Ciesielski KT, Lesnik PG, Savoy RL, **Grant EP**, Ahlfors SP. Developmental neural networks in children performing a Categorical N-Back Task. *Neuroimage*. 2006;33(3):980-90.
41. Eichler F, Tan WH, Shih VE, **Grant PE**, Krishnamoorthy K: Proton Magnetic Resonance Spectroscopy And Diffusion-weighted Imaging In Isolated Sulfite Oxidase Deficiency. *J Child Neurol* 2006;21:801.
42. Venna N, Sims KB, **Grant PE**: *Case records of the Massachusetts General Hospital. Case 26-2006*. A 19-year-old woman with difficulty walking. *N Engl J Med* 2006;355:831.
43. Brown RH Jr, **Grant PE**, Pierson CR. *Case records of the Massachusetts General Hospital. Case 35-2006*. A newborn boy with hypotonia. *N Engl J Med*. 2006 Nov 16;355(20):2132-42.
44. Heiskala J, Neuvonen T, **Grant PE**, Nissila I. Significance of tissue anisotropy in optical tomography of the infant brain. *Appl Opt*. 2007 Apr 1;46(10):1633-40.
45. Liu AK, Marcus KJ, Fischl B, **Grant PE**, Young Poussaint T, Rivkin MJ, Davis P, Tarbell NJ, Yock TI. Changes in cerebral cortex of children treated for medulloblastoma. *Int J Radiat Oncol Biol Phys*. 2007; Mar 26.
46. Franceschini MA, Thaker S, Themelis G, Krishnamoorthy KS, Bortfeld H, Diamond SG, Boas DA, Arvin K, **Grant PE**. Assessment of Infant Brain Development with Frequency-Domain Near-Infrared Spectroscopy. Accepted to *Pediatric Research* Jan 2007.
47. Yu P, **Grant PE**, Qi Y, Han X, Segonne F, Pienaar R, Busa E, Pacheco J, Makris N, Buckner RL, Golland P, Fischl B. Cortical Surface Shape Analysis Based on Spherical Wavelets. *IEEE Trans Med Imaging*. 2007;Apr;26(4):582-97
48. Krejcarek SC, **Grant PE**, Henson JW, Tarbell NJ, Yock TI. Physiologic and radiographic evidence of the distal edge of the proton beam in craniospinal irradiation. *Int J Radiat Oncol Biol Phys*. 2007 Jul 1;68(3):646-9.
49. Hara K, Lin FH, Camposano S, Foxe DM, **Grant PE**, Bourgeois BF, Ahlfors SP, Stufflebeam SM. Magnetoencephalographic mapping of interictal spike propagation: a technical and clinical report. *AJNR Am J Neuroradiol*. 2007 Sep;28(8):1486-8.
50. Eichler F, Krishnamoorthy K, **Grant PE**. Magnetic resonance imaging evaluation of possible neonatal sinovenous thrombosis. *Pediatr Neurol*. 2007 Nov;37(5):317-23.
51. Lyczkowski DA, Conant KD, Pulsifer MB, Jarrett DY, Grant PE, Kwiatkowski DJ, Thiele EA. Intrafamilial phenotypic variability in tuberous sclerosis complex. *J Child Neurol*. 2007 Dec;22(12):1348-55.

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53. Staley KJ, Sims KB, Grant PE, Hedley-Whyte ET. Case records of the Massachusetts General Hospital. Case 28-2008. An 8-day-old infant with congenital deafness, lethargy, and hypothermia. *N Engl J Med*. 2008 Sep 11;359(11):1156-67.
54. Pienaar R, Fischl B, Caviness V, Makris N, **Grant PE** A Methodology for Analyzing Curvature in the Developing Brain from Preterm to Adult, *International Journal of Imaging Systems and Technology Special Issue: Human Brain Imaging*, 18(1): 42-68. 2008.
55. Yeo BT, Yu P, **Grant PE**, Fischl B, Golland P. Shape analysis with overcomplete spherical wavelets. *Med Image Comput Comput Assist Interv Int Conf Med Image Comput Comput Assist Interv*. 2008;11(Pt 1):468-76
56. Lebel A, Becerra L, Wallin D, Moulton EA, Morris S, Pendse G, Jasciewicz J, Stein M, Aiello-Lammens M, **Grant E**, Berde C, Borsook D. fMRI reveals distinct CNS processing during symptomatic and recovered complex regional pain syndrome in children. *Brain*. 2008 Jul;131(Pt 7):1854-79.
57. Costello DJ, Eichler FS, Grant PE, Auluck PK. Case records of the Massachusetts General Hospital. Case 1-2009. A 57-year-old man with progressive cognitive decline. *N Engl J Med*. 2009 Jan 8;360(2):171-81.
58. Hartnick CJ, Barth WH Jr, Coté CJ, Albrecht MA, Grant PE, Geyer JT. Case records of the Massachusetts General Hospital. Case 7-2009. A pregnant woman with a large mass in the fetal oral cavity. *N Engl J Med*. 2009 Feb 26;360(9):913-21
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60. Vishwas M. Chitnis T, Pienaar R, Healy BC, **Grant PE**. Tract Based Analysis of Callosal, Projection and Association Pathways in Pediatric Patients with Multiple Sclerosis: A Preliminary Study. Accepted to *AJNR* May 2009.
61. **Grant PE**, Roche-Labarbe N, Surova N, Themelis G, Selb J, Warren EK, Krishnamoorthy KS, Boas DA, Franceschini MA. Increased cerebral blood volume and oxygen consumption in neonatal brain injury. Accepted to *Journal of Cerebral Blood Flow & Metabolism* May 2009.
62. Roche-Labarbe, Carp S, Surova A, Patel M, Boas DA, **Grant PE**, Franceschini MA. Non-invasive optical measures of CBV, StO₂, CBF index, and rCMRO₂ in human premature neonates' brains in the first 6 weeks of life. Accepted to *Human Brain Mapping* June 2009.
63. Knake S, Salat D.H., Halgren E, Halko M.A., Greve D, **Grant PE**. Changes in white matter microstructure in patients with temporal lobe epilepsy due to hippocampal sclerosis. *Epileptic Disord* 2009; 11 (3): 1-7
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65. Madan N, **Grant PE**. New Directions in Clinical Imaging of Cortical Dysplasias. Accepted to *Epilepsia* June 2009

REVIEWS

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3. **Grant PE**, Barkovich AJ. MRI in Cerebral Palsy. *Clinical MRI Winter* 1998/99; 8(4):105-114.

4. Rowley HR, **Grant PE**, Roberts TPL. Diffusion MR Imaging. Theory and Applications. Neuroimaging Clinics of North America 1999;9(2):343-361.
5. Schaefer PW, **Grant PE**, Gonzalez RG. Diffusion MRI of the Brain. Radiology 2000; 217(2): 331-345.
6. Poldrack RA, Pare-Blagoev EJ, **Grant PE**. Pediatric functional magnetic resonance imaging: progress and challenges. Top Magn Reson Imaging. 2002 Feb;13(1):61-70.
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8. Romero JM, Schaefer PW, **Grant PE**, Becerra L, Gonzalez RG. Diffusion MR imaging of acute ischemic stroke. Neuroimaging Clin N Am. 2002 Feb;12(1):35-53.
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15. Sagar P, **Grant PE**: Diffusion-weighted MR imaging: pediatric clinical applications. Neuroimaging Clin N Am 2006;16:45.
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EDITORIALS

1. Lev MH, **Grant PE**. MEG versus BOLD MR imaging: functional imaging, the next generation? AJNR Am J Neuroradiol. 2000 Sep;21(8):1369-70.
2. Caviness VS, **Grant PE**: Our unborn children at risk? Proc Natl Acad Sci U S A 2006;103:12661.

CHAPTERS

1. **Grant PE**. Language Processing: A Neuro-anatomical Primer. In: de Kerckhove D, Lumsden CJ eds. The Alphabet and the Brain: Neurobiological Mechanisms and the Evolution of Writing Systems. Springer-Verlag;1986:246-272.
2. Knake S, **Grant PE**. Magnetic Resonance Imaging Techniques in the Evaluation for Epilepsy Surgery. In Wylie E ed. The Treatment of Epilepsy: Principles and Practice. 4th Ed. In press.

BOOKS

1. Diagnostic Imaging: Pediatric Neuroradiology. Eds AJ Barkovich, KR Moore, **PE Grant**, et al. Elsevier Health Services. 2007
2. Diagnostic Imaging: Pediatric Neuroradiology. Eds A Osborn, BV Jones, BE Hamilton, C Ho, C Raybaud, E Quigley, **PE Grant**, G Hedlund, G Nesbit, Gilbert Vezina, G Katzman, J Provenzale, J Anderson, J Barkovich, JH Rees, K Salzman, K Moore, L Loevner, M Jhaveri, P Ng, R Harnsberger, S Harder, S Blaser, T Majda, Y Anzai. In Press

Clinical Guidelines and Reports

Ment LR, Bada HS, Barnes P, **Grant PE**, Hirtz D, Papile LA, Pinto-Martin J, Rivkin M, Slovis TL. Practice parameter: neuroimaging of the neonate: report of the Quality Standards Subcommittee of the American Academy of Neurology and the Practice Committee of the Child Neurology Society. *Neurology*. 2002 Jun 25;58(12):1726-38. Provides standard of care for neonatal imaging and is still active.