

Walter Grand

Director, Brain Endoscopy Center Clinical Professor of Neurosurgery Clinical Professor of Pathology and Anatomical Sciences University at Buffalo Neurosurgery State University of New York

Dr. Grand has served as clinical professor of neurosurgery for UBNS since 1992. His research interests lie in the area of endoscopic brain surgery and neurosurgical anatomy. He is the senior author of the book, *Vasculature of the Brain and Cranial Base: Variations in Clinical Anatomy*.

He has lectured widely on endoscopic neurosurgery and minimally invasive brain surgery in the United States, Germany and Finland. Additionally, Dr. Grand conducts an annual brain endoscopy seminar for residents and neurosurgeons in Buffalo, as well as an annual neurosurgical forum in Ponte Vedra Beach, Florida.

He is member of the North American Skull Base Society, the American Association of Neurological Surgeons (AANS), the American Medical Association (AMA), and the Congress of Neurological Surgeons (CNS). He is also on the advisory board of the journal, *Minimally Invasive Neurosurgery*.

Medical School Albert Einstein College of Medicine

Internship St. Vincent's Hospital of New York, Surgical Internship

Residency State University of New York at Buffalo, Neurosurgical Residency; Western Reserve, Neurology Residency

Board Certification Neurological Surgery

Clinical Interests Dr. Grand's clinical interests include endoscopic neurosurgery and minimally invasive brain surgery. His research interests lie in the areas of endoscopic brain surgery and neurosurgical anatomy.

Professional Highlights Dr. Grand received the Lifetime Achievement Award in 2011 from UBNS. Additionally, the "Walter Grand Neuroanatomy Lab" was dedicated to Dr. Grand at the former Millard Fillmore Gates and a new lab in his honor is expected to be complete in early 2013 at the Gates Vascular Institute.

Memberships North American Skull Base Society; American Association of Neurological Surgeons; American Medical Association; Buffalo Council on World Affairs; Congress of Neurological Surgeons; Erie County Medical Society; New York State Medical Society; Phi Beta Kappa, University of Vermont; Roswell Park Medical Club

Selected publications

1: Grand W, Leonardo J, Chamczuk AJ, Korus AJ. Endoscopic Third Ventriculostomy in 250 Adults With Hydrocephalus: Patient Selection, Outcomes, and Complications. *Neurosurgery*. 2015 Aug 20. [Epub ahead of print] PubMed PMID: 26295500.

2: Tawk RG, Binning MJ, Thomas JM, Siddiqui AH, Grand W. Transciliary supraorbital approach (eyebrow approach) for resection of retrochiasmatic craniopharyngiomas: an alternative approach, case series, and literature review. *J Neurol Surg A Cent Eur Neurosurg*. 2014 Sep;75(5):354-64. doi:

10.1055/s-0033-1358609. Epub 2014 Jun 4. Review. PubMed PMID: 24897027.

3: Grand W, Leonardo J. Normal pressure hydrocephalus. *J Neurosurg.* 2012 Feb;116(2):472-3. doi: 10.3171/2011.8.JNS11891. Epub 2011 Nov 25. PubMed PMID: 22117181.

4: Munich SA, Sazgar M, Grand W, Leonardo J. An episode of severely suppressed electrocerebral activity recorded by electroencephalography during endoscopic resection of a colloid cyst. *J Neurosurg.* 2012 Feb;116(2):385-9. doi: 10.3171/2011.10.JNS11268. Epub 2011 Nov 18. PubMed PMID: 22098196.

5: Powers WJ, Clarke WR, Grubb RL Jr, Videen TO, Adams HP Jr, Derdeyn CP; COSS Investigators. Extracranial-intracranial bypass surgery for stroke prevention in hemodynamic cerebral ischemia: the Carotid Occlusion Surgery Study randomized trial. *JAMA.* 2011 Nov 9;306(18):1983-92. doi: 10.1001/jama.2011.1610. Erratum in: *JAMA.* 2011 Dec 28;306(24):2672. Obviagele, Bruce [corrected to Ovbiagele, Bruce]. PubMed PMID: 22068990; PubMed Central PMCID: PMC3601825.

6: Grand W, Chamczuk AJ, Leonardo J, Snyder KV. Endoscopic third ventriculostomy for hydrocephalus after perimesencephalic subarachnoid hemorrhage: initial experience in three patients. *Acta Neurochir (Wien).* 2011 Oct;153(10):2049-55; discussion 2055-6. doi: 10.1007/s00701-011-1106-2. Epub 2011 Jul 31. PubMed PMID: 21805286.

7: Grand W, Leonardo J. Endoscopic third ventriculostomy in adults: a technique for dealing with the neural (opaque) floor. *J Neurosurg.* 2011 Feb;114(2):446-53. doi: 10.3171/2010.10.JNS101000. Epub 2010 Nov 19. PubMed PMID: 21087202.

8: Chamczuk AJ, Grand W. Endoscopic cauterization of a symptomatic choroid plexus cyst at the foramen of Monro: case report. *Neurosurgery.* 2010 Jun;66(6 Suppl Operative):376-7; discussion 377. doi: 10.1227/01.NEU.0000369186.99306.E0. PubMed PMID: 20489533.

9: Fabiano AJ, Doyle K, Grand W. Delayed stoma failure in adult communicating hydrocephalus after initial successful treatment by endoscopic third ventriculostomy: case report. *Neurosurgery.* 2010 Jun;66(6):E1210-1; discussion E1211. doi: 10.1227/01.NEU.0000369191.27291.2F. PubMed PMID: 20495394.

10: Leonardo J, Hanel RA, Grand W. Endoscopic tracking of a ventricular catheter for entry into the lateral ventricle: technical note. *Minim Invasive Neurosurg.* 2009 Oct;52(5-6):287-9. doi: 10.1055/s-0029-1243241. Epub 2010 Jan 14. PubMed PMID: 20077376.

11: Fabiano AJ, Leonardo J, Grand W. Posterior cerebral artery P1 segment at the stoma during endoscopic third ventriculostomy in adults. *J Neurol Neurosurg Psychiatry.* 2010 Apr;81(4):374-8. doi: 10.1136/jnnp.2009.177360. Epub 2009 Sep 2. PubMed PMID: 19726409.

12: Leonardo J, Grand W. Enlarged thalamostriate vein causing unilateral Monro foramen obstruction. Case report. *J Neurosurg Pediatr.* 2009 Jun;3(6):507-10. doi: 10.3171/2009.2.PEDS0969. PubMed PMID: 19485736.

13: Dare AO, Datta RV, Loree TR, Hicks WL, Grand W. Sinonasal Non-Hodgkin's Lymphoma with Skull Base Involvement. *Skull Base.* 2001 May;11(2):129-35. PubMed PMID: 17167612; PubMed Central PMCID: PMC1656785.

14: Moreland DB, Landi MK, Grand W. Vertebroplasty: techniques to avoid complications. *Spine J.* 2001 Jan-Feb;11(1):66-71. PubMed PMID: 14588371.

- 15: Dare AO, Balos LL, Grand W. Neural-dural transition at the medial anterior cranial base: an anatomical and histological study with clinical applications. *J Neurosurg.* 2003 Aug;99(2):362-5. PubMed PMID: 12924711.
- 16: Wingate J, Rechtweg JS, Grand W, Jouandet M, Balos L, Wax MK. Mucocoele of the crista galli. *J Otolaryngol.* 2001 Feb;30(1):43-6. PubMed PMID: 11770973.
- 17: Dare AO, Landi MK, Lopes DK, Grand W. Eyebrow incision for combined orbital osteotomy and supraorbital minicraniotomy: application to aneurysms of the anterior circulation. Technical note. *J Neurosurg.* 2001 Oct;95(4):714-8. PubMed PMID: 11596969.
- 18: Grand W, Landi MK, Daré AO. Transorbital keyhole approach to anterior communicating artery aneurysms. *Neurosurgery.* 2001 Aug;49(2):483-4. PubMed PMID: 11504138.
- 19: Dare AO, Lopes DK, Grand W. Sphenoid wing sarcoidosis. Case illustration. *J Neurosurg.* 2001 May;94(5):849. PubMed PMID: 11354423.
- 20: Dare AO, Balos LL, Grand W. Olfaction preservation in anterior cranial base approaches: an anatomic study. *Neurosurgery.* 2001 May;48(5):1142-5; discussion 1145-6. PubMed PMID: 11334282.
- 21: Grand W. The anatomy of the brain, by Thomas Willis. *Neurosurgery.* 1999 Nov;45(5):1234-6; discussion 1236-7. PubMed PMID: 10549943.
- 22: Plunkett R, Allison RR, Grand W. Stereotactic neurosurgical biopsy is an underutilized modality. *Neurosurg Rev.* 1999 Oct;22(2-3):117-20. PubMed PMID: 10547010.
- 23: Donaldson DR, Myers LL, Diaz-Ordaz E, Grand W, Paterson J, Wax MK. Pathologic quiz case 2. Chondrosarcoma of the jugular foramen. *Arch Otolaryngol Head Neck Surg.* 1999 Feb;125(2):229, 230-1. PubMed PMID: 10037292.
- 24: Grand W, Glasauer FE, Hopkins LN. Neurosurgery at the State University of New York at Buffalo. *Neurosurgery.* 1999 Jan;44(1):179-85. PubMed PMID: 9894979.
- 25: Varnavas GG, Grand W. The insular cortex: morphological and vascular anatomic characteristics. *Neurosurgery.* 1999 Jan;44(1):127-36; discussion 136-8. PubMed PMID: 9894973.
- 26: Grand W, Budny JL, Gibbons KJ, Sternau LL, Hopkins LN. Microvascular surgical anatomy of the vertebrobasilar junction. *Neurosurgery.* 1997 Jun;40(6):1219-23; discussion 1223-5. PubMed PMID: 9179895.
- 27: Stiles JD, Ostrow PT, Balos LL, Greenberg SJ, Plunkett R, Grand W, Heffner RR Jr. Correlation of endothelin-1 and transforming growth factor beta 1 with malignancy and vascularity in human gliomas. *J Neuropathol Exp Neurol.* 1997 Apr;56(4):435-9. PubMed PMID: 9100674.
- 28: Grand W. Improving health care for the poor. *JAMA.* 1994 Aug 3;272(5):352. PubMed PMID: 8028157.
- 29: Grand W. Microsurgical anatomy of the proximal middle cerebral artery and the internal carotid artery bifurcation. *Neurosurgery.* 1980 Sep;7(3):215-8. PubMed PMID: 7207737.
- 30: Hopkins LN, Grand W. Extracranial-intracranial arterial bypass in the treatment of aneurysms of the carotid and middle cerebral arteries. *Neurosurgery.* 1979 Jul;5(1 Pt 1):21-31. PubMed PMID: 471201.

- 31: Cares HL, Roberson GH, Grand W, Hopkins LN. A safe technique for the precise localization of carotid-cavernous fistula during balloon obliteration. Technical note. J Neurosurg. 1978 Jul;49(1):146-9. PubMed PMID: 660261.
- 32: Grand W, Kinkel WR, Glasauer FE, Hopkins LN. Ring formation on computerized tomography in the postoperative patient. Neurosurgery. 1978 Mar-Apr;2(2):107-9. PubMed PMID: 732958.
- 33: Grand W, Hopkins LN. The microsurgical anatomy of the basilar artery bifurcation. Neurosurgery. 1977 Sep-Oct;1(2):128-31. PubMed PMID: 615962.
- 34: Bakay L, Glasauer FE, Grand W. Unusual intracranial foreign bodies. Report of five cases. Acta Neurochir (Wien). 1977;39(3-4):219-31. PubMed PMID: 602853.
- 35: Hopkins LN, Bakay L, Kinkel WR, Grand W. Demonstration of transventricular CSF absorption by computerized tomography. Acta Neurochir (Wien). 1977;39(3-4):151-7. PubMed PMID: 304656.
- 36: Glasauer FE, Grand W. Chronic [petrous pyramid](#) abscess presenting as a cerebellopontine angle mass. Case report. J Neurosurg. 1976 Jan;44(1):116-8. PubMed PMID: 1081589.
- 37: Grand W, Bakay L. Posterior fossa meningiomas. A report of 30 cases. Acta Neurochir (Wien). 1975;32(3-4):219-33. PubMed PMID: 1083625.
- 38: Grand W. The significance of post-traumatic status epilepticus in childhood. J Neurol Neurosurg Psychiatry. 1974 Feb;37(2):178-80. PubMed PMID: 4206684; PubMed Central PMCID: PMC494602.
- 39: Grand W. Laryngeal palsy, occipital encephalocele and hydrocephalus. Dev Med Child Neurol. 1972 Aug;14(4):492-507. PubMed PMID: 4538106.
- 40: Grand W. Positional nystagmus: an early sign in medulloblastoma. Neurology. 1971 Nov;21(11):1157-9. PubMed PMID: 5166221.

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