

**SCOTT D. WAIT, M.D.**

**CONTACT INFORMATION**

Work Carolina Neurosurgery and Spine Associates  
225 Baldwin Avenue  
Charlotte, NC 28204

Director of Pediatric Neurosurgery  
Levine Children's Hospital  
1000 Blythe Blvd  
Charlotte, NC 28203

**EDUCATION**

1988-1992 **Wallace-Rose Hill High School**  
Teachey, North Carolina  
Diploma with Honors

1992-1997 **University of North Carolina at Wilmington**  
Wilmington, North Carolina  
B.A. Chemistry with Teacher Certification

1999-2002, 2003-2004 **East Carolina University School of Medicine**  
Greenville, North Carolina  
Medical Doctorate

2002-2003 **The National Institutes of Health**  
Bethesda, Maryland  
Clinical Research Training Program

2004-2005 **Good Samaritan Regional Medical Center**  
**Phoenix Integrated Surgical Residency**  
Phoenix, Arizona  
Intern, General Surgery

2005-2011 **Barrow Neurological Institute**  
Phoenix, Arizona  
Resident, Neurological Surgery

12/2009-6/2010      **Centre for Minimally Invasive Neurosurgery**  
Dr. Charles Teo  
Sydney, Australia  
Fellow, Skull Base, Endoscopic, and Neurooncology

7/2011- 6/2012      **LeBonheur Children's/St. Jude's Children's Research Hospital**  
Memphis, Tennessee  
Fellow, Pediatric Neurosurgery

## **HONORS AND AWARDS**

Undergraduate	1992-1996	North Carolina Teaching Fellows Scholarship
	1996-1997	Wright Chemistry Scholarship (Given to senior chemistry student demonstrating academic excellence.)
	1997	Chancellor's List
Medical School	2002	Graduation Marshall (top 10% of junior class)
	2002-2003	National Institutes of Health Clinical Research Training Program Fellowship Sponsored by Pfizer and administered by the Foundation for the National Institutes of Health
	2003	AΩA induction
	2004	Frank Longino Surgical Award (the senior medical student displaying excellence in the care of surgical patients)
Residency	2006	Resident award, Rocky Mountain Neurosurgical Society 2006 annual meeting

## **LABORATORY AND RESEARCH EXPERIENCE**

1995-1996      University of North Carolina at Wilmington  
Mentor: Dr. Bart Jones  
Senior research elective: Studied low level formaldehyde detection  
methods.

2000              East Carolina University School of Medicine  
Mentor: Dr. Kori Brewer

Patient enrollment, data acquisition, data analysis, and literature review for double-blinded study of ketorolac versus sumatriptan for acute migraine.

2000-2001

East Carolina University School of Medicine

Mentor: Dr. Ed Seidel

Basic science study of the expression of Neuropilin II in gastrointestinal tissue.

2002-2003

Surgical Neurology Branch/ National Institute of Neurological Disorders and Stroke/ National Institutes of Health

Mentors: Dr. Edward H. Oldfield

Dr. Russell R. Lonser

Dr. Zhengping Zhuang

Clinical and laboratory research involving von Hippel-Lindau disease, neural stem cell generation, and convection enhanced delivery.

2005-2011

Barrow Neurological Institute

Mentors: Dr. Robert F. Spetzler

Dr. Volker K.H. Sonntag

Dr. Kris A. Smith

Dr. William L. White

Dr. Harold L. Rekate

Dr. Peter Nakaji

Dr. Curtis A. Dickman

Clinical research involving epilepsy surgery, novel surgical treatments, surgical techniques, imaging characteristics, etc.

2009-2010

Centre for Minimally Invasive Neurosurgery

Mentor: Dr. Charles Teo

Clinical research regarding endoscopic and minimally invasive approaches to cranial neurosurgical disease.

## **TEACHING EXPERIENCE**

1997

J.T. Hoggard High School

Wilmington, NC

Teacher: Chemistry

1997-1999

D. H. Conley High School

Greenville, NC

Teacher: Honors and AP Chemistry

Coach: mens and womens varsity swimming

2000

East Carolina University School of Medicine

Teaching Assistant: Gross Anatomy

2000 Tutor: Physiology, Neuroscience, and Anatomy

2004-2011 Barrow Neurological Institute  
Responsible for teaching medical students and junior residents.  
Advanced Trauma Life Support instructor

## PUBLICATIONS

- 1 **Wait SD**, Burden HW, Seidel ER: Identification of neuropilin II in small intestinal epithelia. **Gastroenterology** 2001;7:A682
- 2 Meredith JT, **Wait SD**, Brewer KL: A prospective double-blind study of nasal sumatriptan vs. intravenous ketorolac in migraine. **Acad Emerg Med** 2002;9:A203
- 3 Meredith JT, **Wait SD**, Brewer KL. A prospective double-blind study of nasal sumatriptan vs. intravenous ketorolac in migraine. **Am J Emerg Med** 2003 May;21(3):173-5.
- 4 Lonser RR, **Wait SD**, Butman JA, Vortmeyer AO, Walther MM, Governale LS, Oldfield EH: Surgical management of lumbosacral nerve root hemangioblastomas in von Hippel-Lindau disease. **J Neurosurg** 2003 Jul;99(1 Suppl):64-9, (cover illustration), 2003
- 5 Pluta RM, **Wait SD**, Butman JA, Leppig KA, Vortmeyer AO, Lonser RR: Sacral hemangioblastoma in a patient with von Hippel-Lindau disease. Case report and review of the literature. **Neurosurgical Focus**: 15 (2): Article 11, 2003
- 6 **Wait SD**, Vortmeyer AO, Lonser RR, Chang DT, Finn MA, Bhowmick DA, Pack SD, Oldfield EH, Zhuang Z: Somatic mutations in VHL germline deletion kindred correlate with mild phenotype. **Ann Neurol**. 2004 Feb;55(2):236-40.
- 7 Bhowmick DA, Zhuang Z, **Wait SD**, Weil RJ: A functional polymorphism in the EGF gene is found with increased frequency in glioblastoma multiforme patients and is associated with more aggressive disease. **Cancer Res**. 2004 Feb 15;64(4):1220-3.
- 8 Johnson MD, Mitchell AR, Troup EC, Bhowmick DA, **Wait SD**, Zhuang Z, Weil RJ: Research letter: Multiple congenital cystic hemangioblastomas of the cerebral hemisphere and alterations in the von hippel-lindau tumor suppressor gene. **Pediatric Neurosurg** 2004 May-Jun;40(3):124-7.
- 9 **Wait SD**, Jones FD, Lonser RR, Lee SK: Symptomatic epidural hematoma caused by lumbar synovial cyst rupture: report of two cases and review of the literature. **Neurosurgery**. 2005 May;56(5)E1157.
- 10 **Wait SD**, Feiz-Erfan I, Hanel RA, Ponce FA, Killory BD, Spetzler RF: De Novo Postoperative Simple Cerebellar Cyst. **Barrow Quarterly** 2006 22(4):15-16.

- 11 Little AS, Zabramski J, Peterson M, **Wait SD**, Albuquerque F, McDougall C, and Spetzler RF. Analysis of ventriculoperitoneal shunting in patients with aneurysmal subarachnoid hemorrhage. **Neurosurgery** 2008 Mar;62(3):618-27
- 12 Ablá A, **Wait SD**, Uschold T, Lekovic GP, Spetzler RF. Developmental venous anomaly, cavernous malformation, and capillary telangiectasia: spectrum of a single disease. **Acta Neurochir (Wien)**. 2008 May;150(5):487-9.
- 13 Killory BD, Gonzalez LF, **Wait SD**, Ponce FA, Albuquerque FA, Spetzler RF. Simultaneous unilateral moyamoya disease and ipsilateral dural arteriovenous fistula: Case Report. **Neurosurgery** 2008 June;62(6):1375-1376.
- 14 Van Gompel JJ, **Wait SD**, Coons SW, White WL. Neurosurgical Management of Bipolaris-Specific Skull Base Allergic Fungal Sinusitis: Diagnostic Criteria and Outcome. **Barrow Quarterly**, 2008. 24(1) 14-19.
- 15 Wilson DA, **Wait SD**, Sonntag VK. Diskal Cyst: An unusual cause of lumbar radiculopathy. **Barrow Quarterly**, 2008. 24 (1) 20-22.
- 16 Killory BD, Kresl JJ, **Wait SD**, Ponce FA, Porter R, White WL. Hypofractionated CyberKnife Radiosurgery for Peri-chiasmatic Pituitary Adenomas: Early Results. **Neurosurgery**. 2009 Feb;64(2 Suppl):A19-25.
- 17 Killory BD, Ponce FA, **Wait SD**, Rekate HL. Endoscopic Intraventricular Biopsy of Infundibular Langerhans Cell Histiocytosis: Case Report. **Neurosurgery**. 2009 Jul;65(1).
- 18 **Wait SD**, Beres EJ, Nakaji P. Bacterial Abscess of the Medulla Oblongata. **J Clin Neurosci** 2009 Aug;16(8):1082-4.
- 19 Killory BD, Nakaji P, Gonzales LF, Ponce FA, **Wait SD**, Spetzler RF. Prospective evaluation of surgical microscope-integrated intraoperative near-infrared indocyanine green angiography during cerebral arteriovenous malformation surgery. **Neurosurgery**. 2009 Sep;65(3):456-62; discussion 462.
- 20 **Wait SD**, Ponce FA, Colle KO, Parry PV, Sonntag VK. Importance of the C1 anterior tubercle depth and lateral mass geometry when placing C1 lateral mass screws. **Neurosurgery**. 2009 Nov;65(5):952-6; discussion 956-7.
- 21 **Wait SD**, Ponce FA, Killory BD, Wallace D, Rekate HL. Neuroleptic malignant syndrome from central nervous system insult: 4 cases and a novel treatment strategy. **J Neurosurg Pediatr**. 2009 Sep;4(3):217-21.
- 22 **Wait SD**, Chang SW, Killory BD, White WL, Spetzler RF. Anterior cerebral artery amputation and salvage repair of internal carotid artery tear: technical case report. **Neurosurgery**. 2009 Oct;65(4):E820-2; discussion E822.

- 23 Lekovic GP, Kerrigan JF, **Wait S**, ReKate HL, Steinmetz PN. In situ single-unit recording of hypothalamic hamartomas under endoscopic direct visualization. **Neurosurgery**. 2009 Dec;65(6):E1195-6; discussion E1196.
- 24 **Wait SD**, Abla AA, Killory BD, Starke RM, Spetzler RF, Nakaji P. Safety of carotid endarterectomy while on clopidogrel (Plavix). **J Neurosurg**. 2010 Jan 29.
- 25 Killory BD, Chang SW, **Wait SD**, Spetzler RF. Use of flexible hollow-core CO2 laser in microsurgical resection of CNS lesions: early surgical experience. **Neurosurgery**. 2010 Jun;66(6):1187-92
- 26 **Wait SD**, Garrett MP, Killory BD, Little AS, White WL. Endocrinopathy, Vision, Headache, and Recurrence After Transphenoidal Surgery for Rathke's Cleft Cysts. **Neurosurgery**. 2010 Sep;67(3):837-43; discussion 843.
- 27 **Wait SD**, Killory BD, Lekovic GP, Dickman CA. Biportal Thoracoscopic Sympathectomy for Palmar Hyperhidrosis in Adolescents. **J Neurosurg Pediatr**. 2010 Aug;6(2):183-7.
- 28 Killory B, Ponce FA, **Wait SD**, Barranco D. A new method for customized cranioplasty construction in skull tumor resection. **Barrow Quarterly**, (In press)
- 29 **Wait SD**, Killory BD, Lekovic GP, Ponce FA, Kenny KJ, Dickman CA. Thoracoscopic sympathectomy for hyperhidrosis: Analysis of 642 procedures with special attention to Horner's syndrome and compensatory hyperhidrosis. **Neurosurgery** 2010 Sep;67(3):652-6; discussion 656-7.
- 30 **Wait SD**, Killory BD, Jeyamohan S, Kenny KJ, Standerfer RJ, Dickman CA. Thoracotomy for resection of symptomatic herniated thoracic discs: Clinical results in 39 patients. (submitted)
- 31 **Wait SD**, Fox DJ, Kenny KJ, Dickman CA. Thoracoscopic resection of symptomatic herniated thoracic discs: Clinical Results in 121 patients. *Spine (Phila Pa 1976)*. 2011 Feb 17. [Epub ahead of print] PubMed PMID: 21336237
- 32 Ponce FA, Spetzler RF, Han PP, **Wait SD**, Killory BD, Nakaji P, Zabramski JM. Cardiac standstill for cerebral aneurysms in 103 patients: an update on the experience at the Barrow Neurological Institute. *J Neurosurg*. 2010 Oct 15. [Epub ahead of print]
- 33 **Wait SD**, H<sup>v</sup>§rtl R. Multi-institutional American team teaches neurosurgery in underserved Tanzania. *World Neurosurg*. 2010 Jun;73(6):610-1.
- 34 Abla AA, ReKate HL, Wilson DA, **Wait SD**, Uschold TD, Prenger E, Ng YT, Nakaji P, Kerrigan JF. Orbitozygomatic resection for hypothalamic hamartoma and epilepsy: patient selection and outcome. *Childs Nerv Syst*. 2010 Aug 10. [Epub

ahead of print]

- 35 **Wait SD**, Ablal AA, Killory BD, Nakaji P, ReKate HL. Surgical approaches to hypothalamic hamartomas. *Neurosurg Focus*. 2011 Feb;30(2):E2. PubMed PMID: 21374830.
- 36 Killory BD, Nakaji P, Maughan PH, **Wait SD**, Spetzler RF. Evaluation of angiographically occult spinal dural arteriovenous fistulae with surgical microscope-integrated intraoperative near-infrared indocyanine green angiography: report of 3 cases. *Neurosurgery*. 2011 Mar;68(3):781-7; discussion 787. PubMed PMID: 21311304.
- 37 Ablal AA, **Wait SD**, Forbes JA, Pati S, Johnsonbaugh RE, Kerrigan JF, Ng YT. Syndrome of alternating hypernatremia and hyponatremia after hypothalamic hamartoma surgery. *Neurosurg Focus*. 2011 Feb;30(2):E6. PubMed PMID: 21284452.
- 38 Ponce FA, Killory BD, **Wait SD**, Theodore N, Dickman CA. Endoscopic resection of intrathoracic tumors: experience with and long-term results for 26 patients. *J Neurosurg Spine*. 2011 Mar;14(3):377-81. Epub 2011 Jan 21. PubMed PMID: 21250809.
- 39 Ablal AA, Shetter AG, Chang SW, **Wait SD**, Brachman DG, Ng YT, ReKate HL, Kerrigan JF. Gamma Knife surgery for hypothalamic hamartomas and epilepsy: patient selection and outcomes. *J Neurosurg*. 2010 Dec;113 Suppl:207-14. PubMed PMID: 21121803.
- 40 **Wait SD**, Choi LS, Teo C. Neurenteric cyst: an unusual cause of third nerve palsy. *Childs Nerv Syst*. 2011 Apr;27(4):639-41. Epub 2010 Nov 25. PubMed PMID: 21107583.
- 41 Teo C, **Wait SD**. Endonasal Approach to Tumors of the Pituitary Fossa: A Shift in the Treatment Paradigm. *Clinical Neurosurg*. (In Press)
- 42 Wait SD, Gazzeri R, Wilson DA, Ablal AA, Nakaji P, Teo C. Endoscopic Colloid Cyst Resection in the Absence of Ventriculomegaly. (Submitted)

## PRESENTATIONS

### Posters

- 1 **Wait SD**, Christian JC, Seidel ER “Identification of neuropilin II in small intestinal epithelia” American Gastroenterological Association, Digestive Diseases Week, May 2001, Atlanta, GA
- 2 Gessemi P, **Wait SD**, Lee DK “Arsenic poisoning presenting as a painful polyneuropathy”, North Carolina Chapter, American College of Physicians / Society of Internal Medicine, February 2002, Durham, NC

- 3 **Wait SD**, Vortmeyer AO, Lonser RR, Chang DT, Bhowmick DA, Oldfield EH, Zhuang Z “Second hit somatic mutations in a kindred with vHL germline deletion”, American Medical Student Association, March 2003, Washington, DC
- 4 **Wait SD**, Lonser RR, Butman JA, Vortmeyer AO, Oldfield EH “Surgical management of lumbosacral nerve root hemangioblastomas in von Hippel-Lindau disease”, American Medical Student Association, March 2003, Washington, DC
- 5 **Wait SD**, Vortmeyer AO, Lonser RR, Chang DT, Bhowmick DA, Oldfield EH, Zhuang Z “Selective somatic point mutations as “second hits” promoting tumorigenesis in vHL germline deletion” Pfizer – NIH Clinical Fellows Research Presentations, May 2003, Groton CT
- 6 Bhowmick DA, Zhuang Z, **Wait SD**, Weil RJ “Functional polymorphism in the EGF gene is found at increase frequency in glioblastoma multiforme patients and is associated with early progression of disease polymorphism”, Pfizer – NIH Clinical Fellows Research Presentations, May 2003, Groton, CT
- 7 **Wait SD**, Ponce FA, Wallace D, ReKate HL “Neuroleptic malignant syndrome from central nervous system insult: 4 cases and a novel treatment strategy”, American Society of Pediatric Neurosurgeons, November 2007, Miami, FL
- 8 **Wait SD**, Gore PA, Fox DJ, Consiglieri G, Spetzler RF, Sonntag VK “Novel C1 Lamina Screw for Rigid Fixation of the Upper Cervical Spine”, American Association of Neurological Surgeons, April 2008, Chicago, IL
- 9 **Wait SD**, Killory BD, Ponce FA, Smith KA “Frameless stereotactic placement of depth electrodes for intractable epilepsy”, American Association of Neurological Surgeons, May 2009, San Diego, CA
- 10 **Wait SD**, Fox DF, Kenny K, Dickman CA “Posterolateral resection of symptomatic herniated thoracic discs: complications and outcomes”, Congress of Neurological Surgeons, Oct. 2010, San Francisco, CA
- 11 **Wait SD**, Killory BD, Kenny K, Standerfer R, Dickman CA “Thoracotomy for Resection of Symptomatic Herniated Thoracic Discs: Clinical Results in 39 patients.”, Congress of Neurological Surgeons, Oct. 2010, San Francisco, CA



## Oral presentations

- 1 **Wait SD**, Christian JC, Seidel ER, “Neuropilin II is Expressed Differentially Along Crypt-Villus Axis in Rat Small Intestinal Epithelia”, East Carolina University Medical Student Research Day, August 2000, Greenville, NC
- 2 **Wait SD**, Meredith JT, Brewer KL, “Efficacy Of Nasal Sumatriptan Versus Intravenous Ketorolac In Treatment of Acute Migraine”, Society of Academic Emergency Medicine, May 2002, St. Louis, MO
- 3 **Wait SD**, Vortmeyer AO, Lonser RR, Chang DT, Bhowmick DA, Oldfield EH, Zhuang Z “Genetic alteration in vHL-associated tumors”, Clinical Research Training Program Scientific Presentations, May 2003, Bethesda, MD
- 4 Bhowmick DA, Zhuang Z, **Wait SD**, Weil RJ “The role of a functional polymorphism in *EGF* in the pathogenesis of glioblastoma multiforme”, Clinical Research Training Program Scientific Presentations, May 2003, Bethesda, MD
- 5 **Wait SD**, Vortmeyer AO, Lonser RR, Chang DT, Bhowmick DA, Oldfield EH, Zhuang Z “Second hit somatic mutations in a kindred with vHL germline deletion” Congress of Neurological Surgeons, October 2003, Denver, CO
- 6 **Wait SD**, Zabramski JM, White WL “Transphenoidal resection of craniopharyngioma: 13 consecutive cases” Rocky Mountain Neurosurgical Society, June 2006, Sedona, AZ, **Resident Award**
- 7 Little AS, Zabramski J, **Wait SD**, Albuquerque F, McDougall C, and Spetzler RF “Analysis of ventriculoperitoneal shunting in patients with aneurysmal subarachnoid hemorrhage” Congress of Neurological Surgeons, October 2006, Chicago, IL
- 8 **Wait SD**, Garrett MP, White WL “Surgical management of 77 patients with Rathke’s cleft cyst” AANS/CNS Tumor Satellite Meeting, April 2007, Washington, D.C.
- 9 Lekovic GP, **Wait SD**, Kenny KJ, Dickman CD “Biportal thoracoscopic sympathectomy for hyperhydrosis: Experience with 300 patients” American Association of Neurological Surgeons, April 2007, Washington D.C.
- 10 **Wait SD**, Fox DJ, Lekovic GP, Kenny KJ Dickman CA “Thoracoscopic-Assisted Microsurgical Resection of Symptomatic Thoracic Disc Herniations” American Association of Neurological Surgeons, April 2008, Chicago, IL
- 11 **Wait SD**, Colle KO, Ponce FP, Parry PV, Sonntag VK “Radiographic anatomical considerations for placement depth and angle of C-1 lateral mass screws” American Academy of Neurological Surgery, August 2008, Sedona, AZ

- 12 Ablá A, **Wait SD**, Nakaji P, Spetzler RF “Safety of Perioperative Plavix in Patients undergoing Carotid Endarterectomy” AANS/CNS Section on Cerebrovascular Neurosurgery, February 2009, San Diego, CA
- 13 **Wait SD**, Killory BD, Lekovic GP, Dickman CA “Biportal Thoracoscopic Sympathectomy for Hyperhidrosis in Adolescents” American Association of Neurological Surgeons, May 2009, San Diego, CA

## **GRANTS**

- |           |   |
|-----------|---|
| 2000      | Student Research Fellowship<br>East Carolina University   |
| 2002-2003 | Clinical Research Training Fellowship<br>National Institutes of Health<br>Stipend support from Pfizer Pharmaceuticals                                 |
| 2006-2009 | Barrow Neurological Foundation Grant<br>“Magnetic resonance imaging characteristics of the pre- and post-operative lumbar spine”                      |
| 2007-2011 | Barrow Neurological Foundation Grant<br>“Analysis of performance scores in patients undergoing ventriculoperitoneal shunting after recurrent glioma.” |
| 2009-2010 | American Australian Foundation<br>Educational grant for study of endoscopy in Sydney, Australia with Dr. Charles Teo                                  |

## **PROFESSIONAL SOCIETY MEMBERSHIPS**

- American Medical Association - 1999 to present
- Alpha Omega Alpha - 2003 to present
- American Association of Neurological Surgeons - 2005 to present
- Congress of Neurological Surgeons - 2005 to present