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## **CURRICULUM VITAE**

**Terry Grant Horner, MD**  
**201 Pennsylvania Parkway Suite 200**  
**Indianapolis, In 46280**

### **EDUCATION:**

UNDERGRADUATE: Indiana University, AB medical sciences, 1965

GRADUATE: Indiana University School of Medicine, M.D., 1968

POSTDOCTORAL: Indiana University Hospitals, Straight Surgical Internship, 1968-69  
Indiana University Hospitals, Residency in Neurosurgery, 1971-75

**ACADEMIC APPOINTMENTS:** Clinical Associate Professor (Neurosurgery)  
Indiana University School of Medicine

**HOSPITAL APPOINTMENTS:** Clarian Health Partners (Methodist)  
St. Vincent Hospital and Health Care Center  
Community Hospitals of Indianapolis  
St. Francis Hospitals  
Rehabilitation Hospital of Indiana

### **OTHER APPOINTMENTS AND PROFESSIONAL CONSULTANTSHIPS:**

Member, Board of Trustees, Anderson University, Anderson, IN

Member, Board of Directors, Indianapolis Stroke Coalition

Member, Board of Elders (Chairman), Church at the Crossing, Indpls., IN

Member, Advisory Board, Indiana Organ Procurement Organization

Neurosurgery Consultant, Indianapolis Colts 1984 – present

Neurosurgery Consultant, Indiana University Football 1980 – present

**SPECIALTY BOARD STATUS:** Certified American Board of Neurological Surgery, 1980

**LICENSURE AND CERTIFICATION:** MD Indiana

**PROFESSIONAL ORGANIZATIONS:**

American Medical Association

Indiana State Medical Association

Marion County Medical Society

American Association of Neurological Surgeons (AANS)

Congress of Neurological Surgeons (CNS)

Indiana State Neurosurgical Association

Joint Section of Cerebrovascular Surgery (AANS/CNS)

World Federation of Interventional and Therapeutic Neuroradiologists

Indianapolis Stroke Coalition (President 1997-2000)

Stroke Council (American Stroke Association)

American Heart Association

**HONORS AND AWARDS:**

Resident of the Year (Wishard Hospital 1974)

Teacher of the Year (Methodist Hospital of Indiana, 1982)

Alpha Omega Alpha (1997)

Finalist "Healthcare Heros" Indianapolis, IN 2009

**TEACHING ASSIGNMENTS SINCE APPOINTMENT OR LAST ADVANCEMENT:**

Participate in the clinical teaching, surgical instruction, rounds and didactic training of junior and senior level Neurosurgery residents, junior and senior medical students and ER residents on a daily basis to include hands on night call. Organize and teach Neurovascular and Radiosurgical conferences on a biweekly basis. Supervise and aid in the preparation of oral presentations and peer review articles for publication. Organize and coordinate visiting professor rounds on a yearly basis.

**PROFESSIONAL SERVICE:**

Member of multiple professional societies with participation at national conferences and local conferences. Established and was president of the Indianapolis Stroke Coalition to work with all Indianapolis hospitals to promote the expeditious care of neurovascular disease. Provide lectures to the OASIS society on a yearly basis. Assisted in organization of the Aneurysm Support Group. Lectured at multiple nursing education conferences.

**UNIVERSITY SERVICE:**

Served on various quality assurance committees, Critical Care Committee, Medical Moral and Ethics Committee and Clarian Stroke Committee

**OTHER PROFESSIONAL ACTIVITIES:****GRANTS AND FELLOWSHIPS:**

International Study of Unruptured Intracranial Aneurysms, Principle Investigator  
NIH/ Mayo Clinic 1995-2000 (Funded) and 2004 – Present (Funded)

Carotid Occlusion Surgery Study, Principle Investigator  
NIH/Washington University St. Louis 2002 – Present (Funded)

Onyx Liquid Embolic System: U.S. Multicenter, Randomized Controlled Study  
Comparing the Performance of Onyx (EVOL) and TRUFILL (n-BCA) in the  
Pre-surgical Embolization of Brain Arteriovenous Malformations (BAVMs)  
Micro Therapeutics, Inc., 2002- Present. Co-investigator (Funded)

Clazosentan to Overcome Neurological Ischemia and Infarct Occurring after  
Subarachnoid Hemorrhage. (Conscious Study) 2005-2006 Actelion Principal Investigator  
(Funded)

Efficacy/Safety of Tirilizad Mesylate (U-74006F) in SAH, Principle Investigator  
NIH/ Upjohn Co. (Funded)

Hamilton Ventricular Drainage Catheter Study, Principle Investigator  
Cook, Inc 1999-2002 (Funded)

Guglielmi Detachable Coils (GDC)  
(Embolization of non-operative cerebral aneurysms), Co-investigator  
Target Therapeutics 1994-1998 (Funded)

N-Butyl Cyanoacrylate (Avacryl)  
(Embolization of CNS AVMs), Co-investigator  
Tripoint Medical 1994-1996 (Funded)

Nicardipine SAH Drug Study  
(International Cooperative Study of Aneurysms and SAH), Principle Investigator  
Dupont pharmaceuticals 1987-1989 (Funded)

Drug Study PY 108068  
(Treatment of cerebral vasospasm), Co-investigator  
Sandoz Research 1986-1987 (Funded)

**PRINT AND ELECTRONIC PUBLICATIONS:**

Fulkerson, DH, Horner, TG, Payner, TD, Leipzig, TJ, Scott, JA, DeNardo, AJ, Redelman, K, Goodman, JM. Endovascular retrograde suction decompression as an adjunct to surgical treatment of ophthalmic aneurysms: analysis of risks and clinical outcomes. *Neurosurgery* 64(3 Suppl):107-111; discussion 111-112, 2009

Fulkerson, DH, Horner, TG, Payner, TD, Leipzig, TJ, Scott, JA, DeNardo, AJ, Redelman, K, Goodman, JM. Results, outcomes, and follow-up of remnants in the treatment of ophthalmic aneurysms: a 16-year experience of a combined neurosurgical and endovascular team. *Neurosurgery* 64(2): 218-229; discussion 229-30, 2009

Leipzig, TJ, Morgan, J, Horner, TG, Payner T, Redelman, K, Johnson, CS. Analysis of Intraoperative Rupture in the Surgical Treatment of 1694 Saccular Aneurysms. *Neurosurgery* 56: 455-468, 2005

Zebrowski JM, Whiting D, Darouiche RO, Horner TG et al. Efficacy of antimicrobial-impregnated external ventricular drain catheters: a prospective, randomized, controlled trial. *J Neurosurg.* 98(4):725-30, 2003

Leipzig, TJ, Horner, TG, Payner, TD, Redelman, K. Protection from Re-bleeding before Early Aneurysm Surgery. Seminars in Neurosurgery Vol 11, #1 2000, pp 3-16.

Payner, TD, Horner, TG, Leipzig, TJ, Scott, JA, Gilmor, RL, DeNardo, AJ. Role of Intraoperative Angiography in Surgical Treatment of Cerebral Aneurysms. *J Neurosurgery* 88: 441-448, 1998.

International Study of Unruptured Intracranial Aneurysms Investigators .Unruptured Intracranial Aneurysms- Risk of Rupture and Risks of Surgical Intervention.: *N Engl J Med* 1998 Dec 10;339 (24): 1725-1733.

Leipzig, TJ, Redelman, K., Horner, TG. Reducing the Risk of Rebleed Before Early Aneurysm Surgery: A Possible Role for Antifibrinolytic Therapy. *J Neurosurg* 86: 220-225, 1997.

Kongable GL, Lanzino G, Germanson TP, ET AL: Gender-related Differences in Aneurysmal Subarachnoid Hemorrhage. *J. Neurosurg.* 84:43-48, 1996.

Horner, TG, Leipzig, TJ, Scott, JA: Combined Intra-operative Neurosurgical and Interventional Neuroradiological Treatment of Cavernous Dural Fistulae: Advances in Interventional Neuroradiology and Intravascular Neurosurgery. Take W, Picard, L, Kikuohi H. (eds.), Elsevier, New York 1996, PP247-249.

Horner, TG, Leipzig, TJ, Payner, T, Scott, JA, DeNardo, A, Gilmor, R., Intraoperative Balloon Suction Decompression as an Adjunct for Clip Ligation of Carotid Aneurysms: A Clinical Series. In Advances in Interventional Neuroradiology and Intravascular Neurosurgery. Taki, W., Picard, L., Kikuchi, H., (eds.). Elsevier, New York 1996, PP 181-183.

Horner, TG, Leipzig, TJ, Payner, T., Scott, JA., DeNardo, A., Gilmor, R., Acute Life-Threatening Intracerebral Aneurysmal Hematoma Diagnosed by Intra-operative DSA, in Advances in Interventional Neuroradiology and Intravascular Neurosurgery. Taki, W., Picard, L., Kikuchi, H. (eds.). Elsevier, New York, 1996 PP 87-89.

Solenski NJ, Haley EC, Kassell NF, ET AL: Medical Complications of Aneurysmal Subarachnoid Hemorrhage: A Report of Multicenter, Cooperative Aneurysm Study. *Crit Care Med* 23:1007-1017, 1995.

Haley EC, Kassell NF, Turner JC, ET AL: A Randomized Trial of Two Doses of Nicardipine in Aneurysmal Subarachnoid Hemorrhage. *J. Neurosurg.* 80:788-796, 1994.

Haley EC, Kassell NF, Turner JC, ET AL: A Randomized Trial of Nicardipine in Subarachnoid Hemorrhage: Angiographic and Transcranial Doppler Ultrasound Results (A Report of the Cooperative Aneurysm Study). *J. Neurosurg.* 78:548-553, 1993.

Haley EC, Kassell NF, Turner JC, ET AL: A Randomized Controlled Trial of High-Dose Intravenous Nicardipine in Aneurysmal Subarachnoid Hemorrhage (A Report of the Cooperative Aneurysm Study). *J. Neurosurg.* 78:537-547, 1993.

Scott, J.A., Horner, T.G., Leipzig, T.J.: Retrograde Suction Decompression of an Ophthalmic Artery Aneurysm Using Balloon Occlusion. *J. Neurosurg.* 75: 146-147, 1991.

Welty, T.E., Horner, T.G.: Pathophysiology and Treatment of Subarachnoid Hemorrhage. *Clinical Pharmacy.* 9: 35-39, 1990.

Horner, T.G.: Management of Vasospasm from Ruptured Intracranial Aneurysms with Induced Hypertension. *Indiana Medicine.* 78:376-377, 1985.

Dyken, M., Campbell, R.L., Muller, J., Feuer, H., Horner, T.G., King, R., Kolar, O., Solow, E., Jones, H.: Effect of Aspirin on Experimentally Induced Arterial Thrombosis during the Healing Phase. *Stroke* 4:387-389, 1983.

Cooper, D. F., Horner, T.G.: Extracranial to Intracranial Cortical Vessel Anastomosis for the Treatment of Vascular Obstructions to the Brain. *J. Indiana State Med. Assn.* 74: 451-454, 1981.

Horner, T.G., Maroon, J.C., Campbell, R. L.: Traumatic Occlusion of the Internal Carotid Secondary to Closed Craniocervical Injury. *J. Indiana State Med. Assn.* 63:136-140, 1970.

#### **PROFESSIONAL SERVICE:**

Neurosurgeon, Indianapolis Colts Professional Football Team – 1984 –Present  
Neurosurgical Consultant Indiana University Football Team – 1984 – Present

“Brain Hemorrhages – Diagnosis and Treatment” Presented at “Stretching Your Neurons: Neuroscience Nursing Seminar.” Clarian Health, Indianapolis, IN, October 24, 2007

Quarterly lecture to house staff rotating in the Neurological Critical Care Unit, Methodist Hospital of Indiana. “Subarachnoid Hemorrhage and AVMs.”  
1993 to Present.

OASIS bi-yearly lecture. Senior Citizens Group, “Stroke”, 1997 to Present.

“The Surgical Treatment of Intracranial Hemorrhage.” Presented at the Indianapolis Stroke Coalition Methodist Conference Center, Methodist Hospital, Indianapolis, IN April, 2001.

Neuroscience Nursing in the New Millennium, Adult and Pediatric Nursing, “The Diagnosis and Treatment of Intracranial Vascular Malformations”. Westin Hotel, Indianapolis, In. August 16, 2001.

“The Role of the Neurosurgeon in the Treatment of Stroke”. Presented at the AANN meeting February 22, 2000.

"The Role of the Neurosurgeon in the Treatment of Stroke". Presented at Neurology Rounds, March 31, 2000.

"Brain Attack". Presented at the Fourth Annual Stroke Conference, Lilly Conference Center, St. Vincent Marten House Hotel, Indianapolis, IN April 14, 2000.

"Neurosurgery as Applied to the Eye" Lecture and hands-on to Ophthalmology Residents 1997-1999.

Neuroscience Nursing in the New Millennium, Adult and Pediatric Nursing, "Aneurysm Care- the Old and the New". Westin Hotel, Indianapolis, In. August 27-28, 1999.

Neuroscience: The New Frontier, "Aneurysm Update". Methodist Hospital of Indiana, January 28, 1998

### **MEETINGS AND PRESENTATIONS:**

Alstadt TJ, Horner TG, Leipzig T, Payner T, Redelman K: Treatment, outcomes, and complications in 618 consecutively treated middle cerebral artery aneurysms. Presented at the Eighth Joint Annual Meeting of The AANS/CNS Cerebrovascular Section and the ASITN, New Orleans, LA, February 1-4, 2005.

Scott Purvines, M.D., Terry Horner, M.D., Thomas Leipzig, M.D., Troy D. Payner, M.D., Kathy Redelman: Anterior Choroidal Artery Aneurysms: Treatment Outcomes and Complications in 100 Consecutively Treated Aneurysms. . (Oral Abstract) Joint Section of Cerebrovascular Surgery and Interventional Neuroradiology. San Diego, California: February 2004

Levy AL, Redelman KA, DeNardo AJ, Scott JA, Horner TG, Leipzig TJ, Payner TD: Basilar apex aneurysms: comparison of treatments. Presented at the Seventh Joint Meeting of the AANS/CNS Section on Cerebrovascular Surgery and the American Society of International and Therapeutic Neuroradiology, San Diego, California, February 1-4, 2004.

Levy AL, Scott JA, DeNardo AJ, Horner TG, Leipzig TJ, Payner TD: Basilar apex aneurysms: comparison of treatments over seven years. Presented at the 2004 American Association of Neurological Surgeons Annual Meeting, Orlando, Florida, May 1-6, 2004.

Levy AL, Potts CT, Redelman K, Horner TG, Leipzig TJ, Brizendine ES, Payner TD: Risk factors and anatomical distribution of multiple intracranial aneurysms. Presented at the Sixth Joint Meeting of the AANS/CNS Section on Cerebrovascular Surgery and the American Society of Interventional and Therapeutic Neuroradiology, Phoenix, Arizona, February 15-19, 2003.

Connolly, PJ, Leipzig, TJ, Redelman, K, Bindal, RK, Horner, TG. : "Recurrent Hemorrhage of Unsecured Aneurysms during Hyperdynamic Therapy. Presented at the Congress of Neurological Surgeons. September 2001, San Diego, CA.

Redelman, K., Bailey, S., Horner, TG, Leipzig, TJ, Payner, TD: "Support Group for Families of Patients with Intracranial Aneurysms". Fourth Annual Meeting of the AANS/CNS, Section of Cerebrovascular Surgery and the American Society of Interventional and Therapeutic Neuroradiology, Hilton Waikoloa Village, the Big Island, Hawaii, February 12, 2001.

Leipzig, TJ, Horner, TG, Payner, TD, Scott, JA, DeNardo, AJ. : Analysis of Intraoperative Rupture in the Surgical Treatment of 1694 Saccular Aneurysms". Presented at the Fourth Annual Meeting of the AANS/CNS, Section on Cerebrovascular Surgery, and the Society of

Interventional and Therapeutic Neuroradiology. Hilton Waikoloa Village, the Big Island, Hawaii, February 12, 2001.

Horner, TG, Leipzig, TJ, Payner, TD, Scott, JA, DeNardo, AJ. : "DeNovo Aneurysm Formation in Patients Less than 40 Years of Age Presented at the Fourth Annual Meeting of the AANS/CNS, Section on Cerebrovascular Surgery, and the Society of Interventional and Therapeutic Neuroradiology. Hilton Waikoloa Village, the Big Island, Hawaii, February 12, 2001.

Ghosh S, Payner T, Leipzig T, Horner T: PICA aneurysms: management and outcome analysis of 111 consecutive cases. Presented at the Congress of Neurological Surgeons Annual Meeting, San Antonio, Texas, September 25, 2000.

Snyder, WE Jr., Horner, TG, Leipzig, TJ, Payner, TD. : "Aneurysms of the Dorsal Internal Carotid Artery: Special Considerations in Surgical Management. Presented at the First Joint Meeting of the American Society of Interventional and Therapeutic Neuroradiology, and the Section of Cerebrovascular Surgery of the American Association of Neurological Surgeons and Congress of Neurological Surgeons. Lake Buena Vista, Florida, February 1-4, 1998. (Published in proceedings of the First Joint Meeting)

Payner, TD, Horner, TG, Leipzig, TJ, Scott, JA, Gilmor, R. : "The Role of Modern Intra-Operative Angiography in Cerebral Aneurysm Surgery". Presented to the annual meeting of the AANS, April 27-May 2, 1996, Minneapolis, MN.

Intraoperative Balloon Suction Decompression as an Adjunct for Clip Ligation Of Carotid Aneurysm: A Clinical Series". Presented at the International Congress of Interventional Neuroradiology and Intravascular Neurosurgery, Kyoto, Japan November 19-22, 1995.

"Acute, Life Threatening Intracerebral Aneurysmal Hematoma Diagnosed by Intraoperative DSA". Presented at the International Congress of Interventional Neuroradiology and Intravascular Neurosurgery, Kyoto, Japan, November 19-22, 1995.

"Combined Intraoperative Neurosurgical and Interventional Neuroradiological Treatment of Cavernous Dural Fistulae". Presented at the International Congress of Interventional Neuroradiology and Intravascular Neurosurgery. Kyoto, Japan, November 19-22, 1995.

Horner, TG, Leipzig, TJ, Scott, JA. : "Intraoperative Digital Subtraction Angiography as a Diagnostic Tool, in the Treatment of Aneurysm Causing Acute Life Threatening, Intracerebral Hematoma". Poster Session, International Workshop on Cerebrovascular Surgery. June 11-14, 1995. Chicago, Illinois.

Leipzig, TJ and Horner, TG. : "Refining Transcranial Doppler Studies in Patients with Subarachnoid Hemorrhage". Poster Session, American Association of Neurological Surgeons. April 1994. San Diego, California.

Horner, TG, Leipzig, TJ, Scott, JA. : "Combined Intraoperative Neurosurgical and Interventional Neuroradiological Treatment of Cavernous Dural Fistulae". Poster Session, Congress of Neurological Surgeons. April 1994. Chicago, Illinois.

Horner, TG and Redelman, K. : Treatment of Preoperative Vasospasm Secondary to Aneurysmal Subarachnoid Hemorrhage with Volume Expansion and Hypertension. Poster Session, World Congress of Neurological Surgeons. July 1985. Toronto, Canada.