

**CURRICULUM VITAE**  
**Enslin Francois Aldrich, M.B., Ch.B., M.Med., FCS**

May, 2007

**Associate Professor**

Department of Neurosurgery  
The University of Maryland Medical Systems  
University of Maryland Hospital  
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Place of Birth: Ladybrand, Orange Free State, Republic of South Africa (R.S.A.)  
Citizenship: South Africa (R.S.A.), Permanent U.S.A. Resident

**EDUCATION**

1970 1971 Undergraduate, Basic Sciences, University of the Orange Free State, R.S.A.

1972 1976 M.B. Ch.B. (cum laude), Faculty of Medicine, University of the Orange Free State, R.S.A.

1980 1983 FCS (S.A.), Neurosurgery, Department of Neurosurgery, University of the Orange Free State, R.S.A.

1984 MMed (cum laude), Department of Neurosurgery, University of the Orange Free State, R.S.A.

1986 FMGEMS and ECFMG English Test

1988 FLEX

2007 Medtronic Sofamor Danek, artificial cervical disc. Memphis, TN

**PROFESSIONAL AND TEACHING EXPERIENCE**

1976 1977 House physician and surgeon, Universitas, Pelonomi and National Academic Hospitals, Bloemfontein, R.S.A.

1978 1979 S.A.D.F., Surgery Medical Officer, South Africa

- 1980 - 1983      Resident, Neurosurgery, South Africa
- 1984 - 1985      Consultant/Lecturer, Department of Neurosurgery,  
University of the Orange Free State and Bloemfontein  
Academic Hospitals, R.S.A.
- 1985              Acting Head, Department of Neurosurgery, University of the  
Orange Free State and Bloemfontein Academic Hospitals,  
R.S.A.
- 1986 - 1987      Senior Consultant/Senior Lecturer, Department of  
Neurosurgery, University of the Orange Free State and  
Bloemfontein Academic Hospitals, R.S.A.
- 1986              Acting Head, Department of Neurosurgery, University of the  
Orange Free State and Bloemfontein Academic Hospitals,  
R.S.A.
- 1987 - 1992      Assistant Professor, Division of Neurosurgery, The  
University of Texas Medical Branch, Galveston, Texas
- 1992 - 1993      Associate Professor, Division of Neurosurgery, University of  
Texas Medical Branch, Galveston, Texas
- 1993 - Present    Associate Professor, Division of Neurosurgery, University of  
Maryland Medical System, Baltimore, Maryland
- 1993 - Present    Director, Cerebrovascular Surgery, Division of Neurological  
Surgery, University of Maryland Medical System, Baltimore,  
Maryland
- 1993 - Present    Medical Director, Neurological Surgery Intensive Care Unit,  
University of Maryland Medical System, Baltimore,  
Maryland  
University of Maryland Medical System, Baltimore, Maryland
- 1996 - Present    Associate Professor, Department of Neurosurgery,  
University of Maryland Medical System, Baltimore, Maryland

## RESEARCH ACTIVITIES

### Current

- 2005 – Present    Principal Investigator. The Familial Intracranial Aneurysm  
(FIA) study protocol.
- 2005 – Present    Principal Investigator: Conscious Study. A phase IIb, multi-  
center, international, double-blind, randomized, placebo-  
controlled, parallel-group, dose-finding study for the  
prevention of cerebral vasospasm after aneurysmal  
subarachnoid hemorrhage (aSAH) by intravenous

- administration of clazosentan, a selective endothelin A (ET<sub>A</sub>) receptor antagonist. ACTELION INC.
- 2005 – Present Principal Investigator: “Minimal Invasive Surgery Plus Rt-PA for ICH Evaluation:. NIH/JHI
- 2005 – Present Principal Investigator: Clot Lysis: Evaluating Accelerated Resolution of Intraventricular Hemorrhage (IND 8523) NIH/JHI
- 2005 – Present Principal Investigator: Phase II, Randomized, Pharmacokinetic, Dose Finding, and Dose Frequency Determination Using Rt-PA in Intraventricular Hemorrhage. (IND 8523). NIH/JHI
- 2003 - 2004 Pharmos Corporation Protocol PH-2000-1 (US). A Phase III trial to determine safety and efficacy of a single 150 mg intravenous dose of dexanabinol in patients suffering from severe traumatic brain injury.
- 2002 - Present Principal Investigator: R01NS39512: Familial Intracranial Aneurysm (FIA) Study. NINDS - NIH
- 1999 - 2000 Principal Investigator: VML 588 2 S02 Phase II: Safety and tolerability of selective endothelin A-receptor antagonist in patients with subarachnoid hemorrhage. Vanguard Medica.
- 1997 - 1998 Principal Investigator: Safety and efficacy study of CI-1009 in patients with severe head injury (#1009-002-065), Parke-Davis Pharmaceutical Research.

1997 - 1998 Principal Investigator: Efficacy and safety of Cerestat as a neuroprotective following severe traumatic brain injury (CNS102-012), Cambridge Neurosciences, Inc.

1998- Present Principal Investigator: CP – 101,606 In Severe Head Injury. Pfizer

Past

Spinal Stability Following Posterior Cervical Fusion with Halifax Interlaminar Clamps.

1991 Co-Principal Investigator:  
Randomized Study of U-74,006F in Moderate and Severe Head Injured Patients (Head Injury Methodology Study - Phase I). Upjohn.

1991 - 1992 Co-Principal Investigator: Dose Escalation Study of U74,006F in Moderate and Severe Head Injured Patients (Phase II). The University of Virginia.

1991 - 1992 Co-Principal Investigator: National Acute Spinal Cord Injury Study. Upjohn and Yale University.

1991 - 1993 Co-Principal Investigator: Head Injury Tirilazad Trial (Phase III). Upjohn.

1993 Co-Principal Investigator: Efficacy and Safety Study of Tirilazad Mesylate in Patients with Subarachnoid Hemorrhage. Upjohn.

1993 - 1994 Principal Investigator: Tirilazad Mesylate U-74, 006F in Subarachnoid Hemorrhage (0029) Upjohn.

1993 - 1994 Co-Principal Investigator: A Multicenter Open Label and Randomized Pilot Trial of Safety of OPC-14117 in Moderate Head Injury (67-92-201). Otsuka, total costs: \$267,889.

1993 - 1994 Principal Investigator: A Placebo Controlled Trial to Evaluate the Safety, Tolerability, and Potential Efficacy of Initiating Intravenous Administration of CGS-19755 to Serious Head Trauma Patients Prior to Surgery (05/3). Ciba-Geigy, total costs: \$105,000.

1994 - 1995 Co- Investigator: Prognostic Indicators of Vocational Outcome in Young Stroke. University of Maryland Institutional Grant, total costs: \$14,000.

1994 - 1995 Principal Investigator: Safety and Pharmacokinetics Study of Tirilazad Mesylate (U-74, 006F) at Doses of 10 and 15 mg/kg in Patients with Subarachnoid Hemorrhage (P/2700/0056). Upjohn, total costs: \$30,000.

- 1993 - 1995 Principal Investigator: Head Injury Tirilazad Trial (HITT): A Multi-Center Efficacy Study of Tirilazad Mesylate (U-74,006F) in Patients with Moderate and Severe Head Injuries (P/2700/0017). Upjohn, total costs: \$252,665.
- 1994 - 1996 Principal Investigator: Efficacy and Safety of 5mg/kg of CGS-19755 with Placebo in Severe Closed Traumatic Brain Injured Patients: Phase III (08). Ciba-Geigy, total costs: \$153,288.
- 1993 - 1996 Principal Investigator: NASCIS III: Tirilazad Mesylate (U-74,006F) & Methylprednisolone Sodium Succinate (MPSS) in Acute Spinal Cord Injury (P/2700/0028). Upjohn and Yale University, total costs: \$185,370.
- 1995 - 1996 Principal Investigator: Efficacy/Safety Study of 15mg/kg/day Tirilazad Mesylate (U-74,006F) in North American Women with Subarachnoid Hemorrhage (M/2700/0063). Upjohn, total costs: \$200,000.
- 1995 - 1997 Principal Investigator: Safety and Efficacy of Tirilazad Mesylate (6mg vs.10mg/kg/day) in Male Patients with Subarachnoid Hemorrhage (P/2700/0062). Upjohn, total costs: \$100,000.

### **COMMITTEE RESPONSIBILITIES**

PAST: Medical Director, Neurosurgical I.C.U. Joint Advisory Committee  
for Intensive Care Units, University of Texas Medical Branch

CURRENT: Medical Director, Neuro Intensive Care Unit (NICU), University of Maryland Medical System  
Neurosurgery Quality Assurance Committee  
Member - Institutional Review Board (IRB), University of Maryland at Baltimore  
Member - Critical Care Committee, University of Maryland School of Medicine  
Alternate Member - School of Medicine Council, University of Maryland School of Medicine  
Member – Deans Physician Advisory Group for Clinical Practice Redesign, University of Maryland School of Medicine

### **MEMBERSHIP IN SCIENTIFIC SOCIETIES**

American Association of Neurological Surgeons (AANS)  
American Medical Association  
Association of Neurological Surgeons of South Africa  
Galveston Medical Association

Spine Section of the Joint Section of Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons  
Medical Association of South Africa  
Texas Medical Foundation

### **LICENSURE INFORMATION**

Medical Practitioner, South African Medical and Dental Council, 1977, #18776  
Specialist Neurosurgeon, South African Medical and Dental Council, 1984, #6386  
Texas Medical License, #H3799.  
Maryland Medical License, #M37470

### **HONORS**

1973 Hoechst Prize for Best Third Year Medical Student  
1975 Hoechst Prize for Best Fifth Year Medical Student  
1976 Best Final Year Student in Surgery, Pediatrics, Obstetrics and Gynecology  
1976 Best Overall Medical Student in Clinical Medicine  
1985 Honorary Academica Award (Neurosurgery), University of the Orange Free State

### **VISITING PROFESSOR**

1995 "Advances in Neurosurgery" - Guest of Honor at the Centennial Celebration, University of the Orange Free State, Bloemfontein, South Africa  
  
1996 Neurosurgery Department Groote Schuur Hospital, Cape Town, South Africa; Department of Neurosurgery, Wentworth Hospital, University of Natal, South Africa; Department of Neurosurgery, University Hospital, Bloemfontein, South Africa:  
April 15 - 24, 1996  
  
1998 Guest of Honor - XV Biennial National Congress of the South African Society of Neurological Surgeons, Bloemfontein, South Africa

### **ADDITIONAL INFORMATION**

EDITOR/EDITORIAL CONSULTANT:

Ad-Hoc Reviewer: *Neurosurgery*

Ad-Hoc Reviewer: *Skull Base Surgery*

Editorial Advisory Board for *Current Issues in StrokeCare*

## BIBLIOGRAPHY

### ARTICLES IN PEERREVIEWED JOURNALS

Aldrich EF, Eisenberg HM: Intensive care of neurological diseases. *Op in Neurol and Neurosurg* 2:914, 1989.

Aldrich EF, van der Heever CM: Suprainguinal ligament approach for surgical treatment of meralgia paresthetica technical note. *J Neurosurg* 70:492494, 1989.

Aldrich EF: Posterolateral microdiscectomy for cervical monoradiculopathy caused by posterolateral soft cervical disk sequestrations. *J Neurosurg* 72:370377, 1990.

Aldrich EF, Eisenberg HM: Management of acute spinal cord injuries. *Contemp Neurosurg* 12:18, 1990.

Aldrich EF, Eisenberg HM: Pitfalls in the acute emergency room evaluation of head injured patients. *Topics in Emerg Med* 11:5263, 1990.

Aldrich EF, Levin HS, Eisenberg HM: Management and outcome of head injuries. *Cur Op in Neurol and Neurosurg* 3:1017, 1990.

Aldrich EF, Harmann P: Disconnection as a cause of ventriculo-peritoneal shunt malformation in multicomponent shunt systems. *Pedi Neurosci* 16:309-312, 1990-91.

\* Selected for publication in *Annual Review of Hydrocephalus*, 1993.

Eisenberg HM, Gary HE Jr, Aldrich EF, Saydjari C, et al: Initial CT findings in 753 patients with severe head injury: A report from the NIH Traumatic Coma Data Bank. *J Neurosurg* 73:688698, 1990.

Aldrich EF, Crow WN, Weber PB, Spagnolia TN: Use of MR imaging compatible halifax interlaminar clamps for posterior cervical fusion. *J Neurosurg* 74(2):185189, 1991.

\* Selected for publication in 1992 *Mosby Yearbook*. St. Louis, Mosby Yearbook, Inc., 1992.

Aldrich EF: Anterior (dorsal) paraclinoid aneurysm: A case report. *Surg Neurol* 35:374376, 1991.

Aldrich EF, Eisenberg HM, Saydjari C, Luerksen TG, et.al. : Diffuse brain swelling in severely headinjured children: A report from the Traumatic Coma Data Bank. *J Neurosurg* 76:450454, 1992.

\* Selected for publication in 1993 *Mosby Yearbook*. St. Louis, Mosby Yearbook, Inc., 1993.

Aldrich EF, Eisenberg HM, Saydjari C, Foulkes MA, et al: Predictors of mortality in severely head injured civilian gunshot wounds: A report from the NIH Traumatic Coma Data Bank. *Surg Neurol* 38:418-423, 1992.

Levin HS, Aldrich EF, Saydjari C, Eisenberg HM, et al: Severe head injury in children: Experience of the Traumatic Coma Data Bank. *Neurosurg* 31:435-444, 1992.

Aldrich EF: Halifax clamps: Indications and operative techniques. *Contemp Neurosurg* 15(2):16, 1993.

Aldrich EF, Weber PB, Crow WN: Halifax interlaminar clamp for posterior cervical fusion: Long term followup. *J Neurosurg* 78:702-708, 1993.

Haley EC Jr, Kassell NF, Thorner JC, and the participants: 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.

Numaguchi Y, Clouston J, Zoarski G, Aldrich E, Simard J, Zagardo M, Aldrich C: Intraarterial Papaverine Treatment for Cerebral Vasospasm. *Cerebrospinal Vascular Diseases, Springer-Verlag Tokyo* 9: 153-160, 1994.

Heltzer JM, Krasna MJ, Aldrich EF, McLaughlin JS: Thoracoscopic excision of a posterior mediastinal "dumbbell" tumor using a combined approach, 1994. *Annals of Thoracic Surgery*. 60: 431-433, 1995.

Clouston J, Numaguchi Y, Zoarski G, Aldrich E, Simard J, Zitnay K: Intraarterial Papaverine Infusion for Cerebral Vasospasm after Subarachnoid Hemorrhage. *American Journal of Neuroradiology* 16:27-38, 1995.

Khan OA, Bauserman SC, Rothman MI, Aldrich EF, Panitch HS: Concurrence of Multiple Sclerosis and Brain Tumor: Clinical Considerations. *Neurology* 48: 1330-1333, 1997.

Bracken M, Shepard M, Holford T, Leo-Summers L, Aldrich EF, et al. Methylprednisolone administered for 24 or 48 hours, or 48 hour tirilazad mesylate, in the treatment of acute spinal cord injury: Results of the third national acute spinal cord injury randomized controlled trial. *JAMA* 277: 1597-1603, 1997.

Numaguchi Y, Zoarski GH, Clouston JE, Zagardo MT, Simard JM, Aldrich EF, Sloan MA, Maurer PK, Okawara SH. Repeat Intra-arterial Papaverine Treatment for Recurrent Cerebral Vasospasm after Subarachnoid Hemorrhage. *Neuroradiology* 39: 751-759, 1997.

Bracken MB, Shepard MJ, Holford TR, Leo-Summers L, Aldrich EF, et al. Methylprednisolone or tirilazad mesylate administration after acute spinal cord injury: 1 year follow-up. Results of the third National Acute Spinal Cord Injury randomized controlled trial. *J Neurosurg* 89: 699-706, 1998.

Bracken, MB, Aldrich, EF, Herr DL, et al: Clinical Measurement, Statistical Analysis, and Risk-Benefit: Controversies from Trials of Spinal Injury. *J Trauma* 48(3): 558-561, 2000

Jones DA, Deaver RC, Wozniak MA, Macko RF, Robinson WL, Simard JM, Aldrich EF, Bauman S, Sloan MA: Diagnosis of Brain Death by TCD. *International Neurosonology*. 1998, submitted.

Deaver RC, Jones DA, Zagardo MT, Wozniak MA, Macko RF, Bauman S, Aldrich EF, Simard JM, Rigamonti D, Numaguchi Y, Sloan MA: TCD Diagnosis of Vasospasm Following Subarachnoid Hemorrhage in Persons Under Age 55. *International Neurosonology*. 1998, submitted.

Sloan MA, Zagardo MT, Jones DA, Deaver RC, Macko RF, Wozniak MA, Bauman S, Simard JM, Aldrich EF, Rigamonti D, Numaguchi Y: TCD Diagnosis of Vasospasm Following Subarachnoid Hemorrhage in Persons 55 Years and Older. *International Neurosonology*. 1998, submitted.

Pomeranz HD, Aldrich EF. Intrachiasmal cystic craniopharyngioma: surgical treatment with a drainage catheter followed by radiation therapy. 2002,

Joseph P Broderick, Laura R Sauerbeck et al, recruiting centers (University of Maryland) PI EF Aldrich, MD: The Familial Intracranial Aneurysm (FIA) study protocol. BMC Medical Genetics. 26 April, 2005.

#### **ABSTRACTS**

Aldrich EF: Posterior approach for cervical monoradiculopathy caused by posterolateral soft cervical disk sequestrations. *Trans of the Amer Assoc of Neurol Surg* Washington, DC:1989.

Aldrich EF, Eisenberg HM, Saydjari C: Diffuse brain swelling in severely head injured children. *Trans of the Amer Assoc of Neurol Surg* Nashville, Tennessee:1990.

Crow WN, Aldrich EF, Guinto FC, Weber PB, et al: MRI compatible halifax interlaminar clamps for posterior cervical spine stabilization. *Proc of the Radiol Soc of N Amer* Chicago, Illinois:1990.

Eisenberg HM, Aldrich EF, Saydjari C, Traumatic Coma Data Bank Investigators: Computed tomographic findings in a large series of severely head injured patients. *Neurotraumatol (Tokyo)* 13:1920, 1990.

Aldrich EF, Eisenberg HM, Saydjari C, NIH Traumatic Coma Data Bank Writers : Predictors of mortality in severely head injured civilian gunshot wounds a report from the NIH Traumatic Coma Data Bank. *Trans of the Amer Assoc of Neurol Surg* New Orleans, LA:1991.

Aldrich EF, Crow WN, Weber PB, Eisenberg HM: Use of MR imaging-compatible halifax interlaminar clamps for posterior cervical fusion. *Key Neurol and Neurosurg* 6(2):3839, 1991.

Crow WN, Aldrich EF, Guinto FC, Weber PB, et al: MRI compatible halifax interlaminar clamps for posterior cervical spine stabilization. *Proc of the Amer Soc of Neuroradiology* Washington, DC:1991.

Crow WN, Story GS, Aldrich EF, Weber PB, et al: Halifax interlaminar clamps for posterior cervical fusion: Long term follow-up imaging. *Radiological Society of North America, Chicago, IL* Nov 28 - Dec 3, 1993.

Aldrich EF, Crow WN, Weber PB, Eisenberg HM: Use of MR imaging-compatible halifax interlaminar clamps for posterior cervical fusion. In: *The Mosby Year Book*, Mosby Year Book, Inc.:1992.

Aldrich EF, Weber PB, Crow WN: Halifax interlaminar clamps for cervical fusion: Long term followup. *Trans of the Amer Assoc of Neurol Surg* San Francisco, CA:1992.

Levin HS, Aldrich EF, Eisenberg HM, Saydjari C, et al: Outcome of severe head injury in children: A report from the Traumatic Coma Data Bank. *NHIF 11th Annual Natl Symposium Boston, MA* 1992.

Levin HS, Aldrich EF, Saydjari C, Eisenberg HM, et al: Severe head injury in children: Experience of the Traumatic Coma Data Bank. *Trans of the Amer Assoc of Neurol Surg* San Francisco, CA:1992.

Sloan MA, Rigamonti D, Wozniak MA, Aldrich EF, et al: Prevalence of posterior circulation vasospasm: A transcranial Doppler study. *Stroke* 24:743, 1994.

Numaguchi Y, Zoarski G, Clouston J, Aldrich FA, et al: Intra-arterial papaverine infusion for cerebral vasospasm. *Japanese Neuroendovascular Surgery Conference, 9th Annual Meeting*, Sendai, Japan:1993.

Liem LK, Aldrich EF, Knoller N, Eisenberg HM: Very early CT changes in patients with closed head injury. *AANS 62nd Annual Meeting* San Diego, CA:1994.

Clouston J, Numaguchi Y, Zoarski G, Simard JM, Aldrich F, Zitnay K: Intra-arterial papaverine infusion for cerebral arterial vasospasm. *American Roentgen Ray Society 94th Annual Meeting*, New Orleans, LA:1994.

Numaguchi Y, Clouston J, Zoarski G, Aldrich F, Simard JM, Zitnay K: Intra-arterial papaverine infusion for cerebral vasospasm. *American Society of Neuroradiology, 32nd Annual Meeting*, Nashville, TN:1994.

\*Winner of Cum Laude Citation Award

Aldrich EF: Urgent therapy for subarachnoid hemorrhage. *Current Issues in Stroke Care*, May:2, 1994.

Sloan M, Numaguchi Y, Zoarski G, Aldrich, F, Simard, JM, Clouston, J, Wozniak M, Jones D, Deaver R: Hemodynamic Effects of Intra-arterial Papaverine for Vasopsams Following Subarachnoid Hemorrhage. *8th International Symposium on Cerebral Hemodynamics, Muenster, Germany:9/25-27/94. Cerebrovascular DZ*, 1994; 4(Sample 3):9.

Aldrich, EF: Lazeroids: Applications for Neurotrauma. *R. Adams Cowley 16th National Trauma Symposium, Baltimore, MD* November 18-20, 1994.  
Trauma/Critical Care in the 90's: Ethical Perspectives Advanced Trauma Life Support. *R. Adams Cowley Shock Trauma Center, Baltimore, MD*, 1994.

Numaguchi Y, Clouston J, Zoarski G, Aldrich F, Simard JM, Zitnay K: Intra-arterial papaverine infusion for cerebral vasospasm. *80th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, IL: November 27 - December 2, 1994.*

Clouston J, Numaguchi Y, Zoarski G, Simard JM, Aldrich F, Zitnay K: Intra-arterial papaverine infusion for cerebral arterial vasospasm. *American Roentgen Ray Society 94th Annual Meeting, New Orleans, LA April 25-29, 1994.*

Wozniak M, Sloan M, Rigamonti D, Simard JM, Aldrich F, Jones D, Deaver R, Macho R, Acosta J: Distribution of Pathologically Elevated Flow Velocities Occurring on Days 1-3 Following Subarachnoid Hemorrhage. *8th International Symposium on Cerebral Hemodynamics, Muenster, Germany:9/25-27/94. Cerebrovascular DZ, 1994; 4 (Sample 3)9.*

Grattan LM, Eslinger PJ, Price T, Aldrich F: Recall of Contextually- Congruent and Contextually-Incongruent Information After Frontal Lobe Lesion. *International Neuropsychological Society 23rd Annual Meeting, Seattle, WA: February 8-11, 1995.*

Herron JE, Grattan LM, Aldrich F, Eslinger PJ: Secondary Mania Following Unilateral Left Frontal Lobe Damage. *International Neuropsychological Society 23rd Annual Meeting, Seattle, WA. February 8-11, 1995.*

August SM, Grattan LM, Eslinger PJ, Rigamonti D, Aldrich EF: Coping Strategies and Positive Outcome in Frontal Lobe Lesion Patients. *International Neuropsychological Society 23rd Annual Meeting, Seattle, WA. February 8-11, 1995.*

August SM, Grattan LM, Eslinger PJ, Rigamonti D, Aldrich EF: Contextual Memory Deficits in AcoA Aneurysm Patients. *Society for Neuroscience Abstracts, Vol 20, p 358, 1995.*

Grattan LM, August SM, Rigamonte D, Aldrich EF, Eslinger PJ: Recovery of Memory and Frontal Lobe Functions in a Consecutive Series of AcoA Aneurysm Cases. *Society for Neuroscience Abstracts 20: 358, 1995*

Kaul S, Wozniak M, Rigamonte D, Aldrich E, Simard J, Macko R, Jones D, Deaver R, Sloan M: Influence of Gender and Race on TCD Diagnosis of Vasospasm Following Subarachnoid Hemorrhage. *Submitted to IAPM (The Institute of Applied Physiology and Medicine), September 19, 1995.*

Sloan M, Grattan L, Rigamonte D, Aldrich E, Simard J, Greenberg D, Jones D, Deaver R, Hart P, Wozniak M, Price T: Relation Between Outcome from Subarachnoid Hemorrhage and Sonographic Vasospasm. *Submitted to The American Academy of Neurology, September 20, 1995.*

Hart P, Grattan L, Sloan M, Rigamonte D, Aldrich E, Simard J, Herron J, Jones D, Deaver R, Wozniak M, Price T: Association Between Depression Following Subarachnoid Hemorrhage and Sonographic Vasospasm. *Submitted to The American Academy of Neurology, September 20, 1995.*

Caroselli JS, Grattan LM, Viglietta MB, Aldrich EF, Rigamonti D: The Relationship Between Immediate and Delayed Memory Performance After Aneurysm of the Anterior Communicating Artery. *Journal of the International Neuropsychological Society* 2(1): 8; 1996.

Sloan M, Zagardo M, Wozniak M, Macko R, Aldrich F, Simard M, Rigamonti D, Jones D, Deaver R, Brown S, Mathis J: Sensitivity and Specificity of Flow Velocity Ratios for the Diagnosis of Vasospasm after Subarachnoid Hemorrhage. *10th International Symposium on Cerebral Hemodynamics, European Society of Neurosonology and Cerebral Hemodynamics, February, 1996.*

Sloan M, Zagardo M, Aldrich F, Simard M, Rigamonti D, Brown S, Wozniak M, Macko R, Jones D, Deaver R, Mathis J: External Validation of TCD Flow Velocity Criteria for Vasospasm After Subarachnoid Hemorrhage. *10th International Symposium on Cerebral Hemodynamics, European Society of Neurosonology and Cerebral Hemodynamics, February, 1996.*

Herron JE, Greenberg DR, Rigamonti D, Aldrich EF, Price T, Sloan M: Depression and Outcome After Subarachnoid Hemorrhage. *Neurology*; 1996.

Grattan LM, Greenberg DR, Aldrich EF: Neurobehavioral Outcome After Gyrus Rectus Resection in AcoA Patients. *Neurology*; 1996.

Zoarski GH, Grattan L, Rothman MI, Greenberg D, Aldrich EF, Mathis JM: Incidence of Postoperative Ischemic Brain Lesions Demonstrated by CT Following Surgery for Ruptured Saccular Intracranial Aneurysms and the Implications for Functional Outcome. *Scientific Program Bulletin of the 34th American Society of Neuroradiology Annual Meeting, Seattle, WA, 1996.*

Bracken MB, Shepard MJ, Holford TR, Leo-Summers L, Aldrich EF, Fazl M, Fehlings M, Herr DL, Hitchon PW, Marshall LF, Nockels RP, Pascale V, Perot PL Jr, Piepmer JM, Sonntag VKHJ, Wagner F, Wilberger JE, Winn HR, Young W: Administration of methylprednisolone for 24 or 48 hours or tirilazad mesylate for 48 hours in the treatment of acute spinal cord injury: Results of the Third National Acute Spinal Cord Injury Randomized Controlled Trial-National Acute Spinal Cord Injury Study, *JAMA* 277:1597-1604, 1997.

Bracken MB, Shepard MJ, Holford TR, Leo-Summers L, Aldrich EF, Fazl M, Fehlings MG, Herr DL, Hitchon PW, Marshall LF, Nockels RP, Pascale V, Perot PL Jr, Piepmeier JM, Sonntag VKH, Wagner F, Wilberger JE, Winn HR, Young W: Methylprednisolone or tirilazad mesylate administration after acute spinal cord injury: 1-year follow-up—Results of the Third National Acute Spinal Cord Injury Randomized Controlled Trial. *J Neurosurg* 89:699-706, 1998

Bracken MB, Aldrich EF, Herr DL, Hitchon PW, Holford TR, Marshall LF, Nockels RP, Pascale V, Shepard MH, Sonntag VKH, Winn HR, Young W: Clinical measurement, statistical analysis, and risk-benefit: Controversies from trials of spinal injury. *J Trauma* 48:558-561, 2000

## Books

Eisenberg HM, Aldrich EF (eds.): *Neurosurgery Clinics of North American: Management of Head Injury*. Philadelphia, PA, W.B.Saunders Company, Vol.2(2); 1991.

## BOOK CHAPTERS

Aldrich EF, Chin LS, DiPatri AJ, Eisenberg HM. In: Sabiston Textbook of Surgery, The Biological Basis of Modern Surgical Practice. Townsend, Beauchamp, Evers, Mattox. Sixteenth Edition. *Neurosurgery* Chapter 68, pp. 1518-1549.

Soloniuk DS, Aldrich EF, Eisenberg HM: Traumatic intracerebral hematomas. In: *The Craniospinal Trauma Volume (Trauma Management Series)*, ed by LH Pitts, F Wagner, New York, Thieme, 1990, pp 4959.

Aldrich EF: Surgical management of traumatic intracerebral hematomas. In: *Neurosurgery Clinics of North America: Management of Head Injury*, Philadelphia, W.B.Saunders Company, 1991, pp 373385.

Aldrich EF, Eisenberg HM: Acute subdural hematoma. In: *Brain Surgery Complication Avoidance and Management*, ed by MLJ Apuzzo, New York, Churchill Livingstone, 1992.

Numaguchi Y, Clouston J, Zoarski G, Aldrich E, Simard J, Zagardo M, Aldrich C: Intraarterial papaverine treatment for cerebral vasospasm. In: Tamaki N, ed. *Cerebrospinal Vascular Diseases*. Hong Kong: Springer Verlag Tokyo, 1994, pp. 153-160.

Aldrich EF, Eisenberg HM: Benign pituitary cysts. In: *Neurosurgery*, 2nd ed, ed by RH Wilkins and SS Rengachary, Baltimore, Williams and Wilkins, pp. 1357-1360, 1996.

Aldrich EF, Eisenberg HM: Diffuse brain injury. In: *The Practice of Neurosurgery*, ed by GT Tindall, PR Cooper, DL Barrow, Baltimore, Williams and Wilkins, pp. 1491-1501, 1996.

Aldrich EF, Levin HS, Eisenberg HM: Mild head injury in children. In: *Neurological Surgery, 4th edition*, ed. by JR Youmans, Philadelphia, Pennsylvania, W.B. Saunders Company, pp. 1719-1729, 1996.

Sloan MA, Zagardo MT, Wozniak MA, Macko RF, Aldrich EF, Simard JM, Rigamonti D, Jones D, Deaver R, Mathis JM: Sensitivity and specificity of flow velocity ratios for the diagnosis of vasospasm after subarachnoid hemorrhage: preliminary report. In: *10th International Symposium on Cerebral Dynamics, Munich, 29 August - 1 September 1996*, ed. by J Klingelhofer and E Bartels. 1997, in press.

Aldrich EF, Eisenberg, HM: Prognostic Factors. In: *Traumatic Brain Injury*, ed. by DW Marion, New York, NY, Thieme, pp. 223-229, 1999.

Aldrich EF, Chin, LS, DiPatri AJ, Eisenberg HM: In Textbook of Surgery, Sixteenth Edition, Chapter 68, *Neurosurgery*, pp 1518-1549, 2000

Chin LS, Aldrich EF, DiPatri AJ, Eisenberg HM. In: Sabiston Textbook of Surgery, The Biological Basis of Modern Surgical Practice, Neurosurgery. Townsend, Beauchamp, Evers, Mattox. Seventeenth Edition. *Neurosurgery* Chapter 71, pp. 2135-2180. 2004

Pomeranz HD, Aldrich EF, Intrachiasmal Craniopharyngioma: Treatment with a Cisternal Catheter Drainage and Radiation. *J neuro-ophthalmol*, Vol 24, No. 1, 2004

### **Magazine**

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### **INSTRUCTIONAL MATERIALS**

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### **REVIEWS**

Aldrich EF. Review of: P Statham, M O'Sullivan, T Russell: The halifax interlaminar clamp for posterior cervical fusion: Initial experience in the United Kingdom, *Neurosurgery* 1993, pp 398399.

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### **PRESENTATIONS**

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Aldrich EF: Treatment of raised intracranial pressure in children. *Pediatric course Bloemfontein, South Africa* March, 1983.

Aldrich EF: Evaluation of headache and facial pain. *Cen Br of the Orange Free St of MASA, S Africa* September, 1984.

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Aldrich EF: Treatment of cervical fractures in head injured patients. *Critical Care Conf, Bloemfontein, South Africa* September, 1985.

Aldrich EF: Spontaneous intracranial hemorrhage. *Gen Practitioner Course, Bloemfontein, S Africa* April, 1985.

Aldrich EF: Clinical use of evoked potentials. *Critical Care Conf, Bloemfontein, South Africa* September, 1985.

Aldrich EF: Meralgia paresthetica: Technical note. *IX Cong of S African Soc of Neurolog Surgeons* March, 1986.

Aldrich EF: Pathology of radiculopathy in cervical spondylosis. *IX Cong of S African Soc of Neurolog Surgeons* March, 1986.

Aldrich EF: Current treatment of SAH and spontaneous intracerebral hematoma. *Gen Practitioner Refresher Cong, South Africa* September, 1987.

Aldrich EF: Prognosis of head injuries. *Anglo American Physicians Cong, South Africa* September, 1987.

Aldrich EF: Management of acute head injuries. *Gen Practitioner Refresher Cong, South Africa* September, 1987.

Aldrich EF: Posterior approach for cervical monoradiculopathy caused by posterolateral soft cervical disk sequestrations. *American Assoc of Neurol Surg, Washington, DC* April, 1989.

Aldrich EF: Diagnosis and treatment of acute and chronic back pain. *Texas Dept of Corrections Cont Med Ed Program* January, 1989.

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Eisenberg HM, Aldrich EF, Saydjari C, Traumatic Coma Data Bank Investigators: Computed tomographic findings in a large series of severely head injured patients. *13th Cong of Japanese Neurotrauma Soc, Tokyo* March, 1990.

Aldrich EF: Acute spinal cord injury. *Texas Soc for Respiratory Care, Galveston, TX* February, 1991.

Aldrich EF: Lumbar spinal stenosis. *25th Family Prac Review, University of Texas* April, 1991.

Aldrich EF: Minimally Invasive Surgical (MIS) Management of ICH. *Johns Hopkins Hospital, Cranial Hemorrhage seminar*. October 13, 2005

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Aldrich EF: Trigeminal Neuralgia. *University of Maryland Neurology Department Grand Rounds, Baltimore, MD* November 1993.

Aldrich EF: Surgery for Stroke. *Maryland Stroke Society, Towson, MD* December, 1993.

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Sloan MA, Rigamonti D, Wozniak MA, Aldrich EF, et al: Prevalence of posterior circulation vasospasm: A transcranial Doppler study. *Symposium on Cerebral Hemodynamics, La Jolla, CA* February 1994.

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Aldrich EF: Clinical Manifestations and Treatment of Intracranial Aneurysms. *University of Maryland Stroke Conference, Baltimore, MD*. September 30, 1994

Aldrich, EF: Lazeroids: Applications for Neurotrauma. *R. Adams Cowley 16th National Trauma Symposium, Baltimore, MD* November 18-20, 1994.

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Aldrich, EF: Lazeroids: Applications for Neurotrauma. *R. Adams Cowley Shock Trauma Grand Rounds, Baltimore, MD* February 3, 1995.

Aldrich, EF: Advances in Neurosurgery. Keynote Speaker, *200 Year Centennial Celebration at the University of the Orange Free State, Bloemfontein, South Africa* August 14-25, 1995.

Aldrich, EF: Treatment of Vasospasm. *Department of Neurosurgery, University of Pretoria, HF Verwoerd Hospital, South Africa*, April 22, 1996.

Aldrich, EF: An Approach to the Treatment of Subarachnoid Hemorrhage. *Department of Neurosurgery and Neurology, Johannesburg Hospital, University of the Witwatersvand, Johannesburg, South Africa*, April 24, 1996.

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Aldrich, EF: Why Brain Attack Now? *Continuing Medical Education Seminar sponsored by the Maryland Brain Attack Center, Baltimore, MD* October 23, 1996.

Aldrich, EF: Why Brain Attack Now? *Continuing Medical Education Seminar sponsored by the Maryland Brain Attack Center, Annapolis, MD* November 20, 1996

Aldrich, EF: Approach to Intracranial Hemorrhage. *The Maryland Brain Attack Center Symposium, Baltimore, MD* November 22, 1996

Aldrich, EF: Approach to Intracranial Hemorrhage. *Neurocare Grand Rounds, University of Maryland School of Medicine, Baltimore, MD* January 8, 1997.

Aldrich, EF: Why Brain Attack Now? *Continuing Medical Education Seminar sponsored by the University of Maryland School of Medicine, Westminster, MD* March 20, 1997.

Aldrich, EF: Brain Attack Update. *Continuing Medical Education Seminar sponsored by the University of Maryland School of Medicine, Hagerstown, MD* April 10, 1997.

Knoller N, Robinson WL, Aldrich EF, Eisenberg HM: Management algorithms for cervical spine injury. *American Association of Neurological Surgeons, Denver, CO* April 12-17, 1997.

Aldrich EF: Brain Attack Update. *Continuing Medical Education Seminar sponsored by the University of Maryland School of Medicine, Easton, MD* April 30, 1997.

Aldrich EF: Brain Attack Update. *Continuing Medical Education Seminar sponsored by the University of Maryland School of Medicine, Middletown, MD* March 5, 1998.

Aldrich EF: Pathophysiology of hemorrhagic stroke; Surgical management of subarachnoid hemorrhage; Surgical management of acute intracranial hemorrhage. *The Maryland Brain Attack Center 1998 Symposium: Stroke: A Renaissance of Management*, Baltimore, MD September 1998.

Aldrich EF: Perioperative monitoring and management of the neurosurgery patient; The case for posterior foraminotomy for cervical radiculopathy; Anterior corpectomy for cervical myelopathy; Radiosurgery for acoustic neuroma in the patient with a single hearing ear; Tidbits in aneurysm surgery. Outcome improvement strategies; Management of incidental aneurysms. C-Spinal Workshop. Chairman: Codman Registrar's Meeting. Panel: Surgery for Cervical radiculopathy. *XV Biennial National Congress of the South African Society of Neurological Surgeons*, Bloemfontein, South Africa, September 1998.

Aldrich EF: Practical Thoughts on Management of Hemorrhagic Stroke. *Dimensions Healthcare System, Laurel Regional Hospital*. May 9, 2002.

R L MacDonald; A Kakarieka; S Mayer; A Pasqualin; D Ruefenacht; P Schmiedek; N Kassell; and the study participants E Aldrich. Prevention of Cerebral Vasospasm after Aneurysmal Subarachoid Hemorrhage with Clazosentan an Endothelin Receptor Antagonist. *Congress Neurological Surgeons* October 2006.

### **PANEL DISCUSSIONS**

A Panel Discussion and Update of Intracerebral Hemorrhage, *Minimally Invasive Surgical Management of ICH* Johns Hopkins University School of Medicine. Nov 6, 2006

### **POSTER PRESENTATIONS**

Ahn ES, Aldrich EF, DiPatri AJ. Pseudoaneurysm with intraparenchymal hemorrhage following an amusement park ride: Case report and review of literature. AANS/CNS Section on Pediatric Neurological Surgery Annual Meeting, Orlando, FL, December 2005.

### **CONFERENCES ATTENDED**

VI Biannual National Congress of the South Africa Society of Neurological Surgeons, Johannesburg, South Africa, 1980.

VII Biannual National Congress of the South African Society of Neurological Surgeons, Plettenberg Bay, South Africa, 1982.

Neurosurgery Workshop, Cape Town, South Africa, April, 1983.

Critical Care Congress, Bloemfontein, South Africa, July, 1983.

VII Biannual National Congress of the South African Society of Neurological Surgeons, Durban South Africa, 1984.

Critical Care Congress, Bloemfontein, South Africa, September, 1985.

VII Biannual National Congress of the South African Society of Neurological Surgeons, Durban, South Africa, 1984.

Critical Care Congress, Bloemfontein, September, 1985.

IX Biannual National Congress of the South African Society of Neurological Surgeons, Bloemfontein, South Africa, 1986.

Critical Care Congress, Bloemfontein, South Africa, September, 1987.

Congress of Neurological Surgeons, Seattle, Washington, September, 1988.

Automated Percutaneous Discectomy Workshop, Florida, December, 1988.

American Association of Neurological Surgeons, April, 1989.

American Association of Neurological Surgeons, April, 1990.

Cranial Base Surgery Workshop, University of California Los Angeles Medical Center, California, January, 1991.

American Association of Neurological Surgeons, April, 1991.

The Spine: Current Concepts of Diagnosis and Treatment, Scottsdale, Arizona, October 17-21, 1991.

American Association of Neurological Surgeons, April, 1992.

Congress of Neurological Surgeons, Washington, D.C., November, 1992.

American Association of Neurological Surgeons, San Diego, CA, April 9-14, 1994.

The Society of Neurological Surgeons, Charlottesville, VA, April 24-27, 1994.

Practical Techniques in Spinal Instrumentation, Department of Neurological Surgery, College of Medicine, University of FL at Gainesville, August 28 - September 1, 1994.

Aldrich, EF: *R. Adams Cowley 16th National Trauma Symposium, Baltimore, MD.* November 18-20, 1994.

Aldrich, EF: Medical Presentation Skills - A Workshop From Upjohn. *Greenbelt, MD.* November 22, 1994.

Aldrich, EF: Modern Dissection Techniques of Bone, Bioletals and Bioplastics - a hands-on workshop from Midas Rex Institute, Inc. West Palm Beach, FL, March 6-7, 1995.

Aldrich, EF: Congress of Neurological Surgeons, 45th Annual Meeting. San Francisco, CA. October 15-18, 1995.

Aldrich, EF: Anterior Column Support: Implications in Cervical and Thoracolumbar Spine Surgery. Nassau, Bahamas, November 7-9, 1996.

XV Biennial National Congress of the South African Society of Neurological Surgeons, Bloemfontein, South Africa, 1998.

Medtronic Sofamor Danek presented "Cervical Spine Symposium: Innovative Technologies...The Evolution of Our Practice. Lake Placid, New York Oct 11-14, 2001

Congress of Neurological Surgeons 53<sup>rd</sup> Annual Meeting. Panel Participant "Traumatic Spinal Cord Injury: Advances in Medical and Surgical Management". October 18-23, 2003, Denver Colorado.

American Association of Neurological Surgeons, April 18-22 Annual Meeting, New Orleans, LA.

Congress of Neurological Surgeons 54<sup>th</sup> Annual Meeting, Boston, MA., Oct 10-14, 2005.

MEDTRONIC SOFAMOR DANEK, *CERVICAL FOCUS MEETING*, MEMPHIS, TN FEBRUARY 2006.

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#### **SUBMITTED**

Liem LK, Aldrich EF, Knoller N, Eisenberg HM: Very early CT changes in patients with closed head injury. *Journal of Neurotrauma* 1997.

Sloan MA, Zagardo MT, Wozniak MA, Macko RF, Aldrich EF, Simard JM, Rigamonti D, Jones D, Deaver R, Mathis JM: Sensitivity and specificity of flow velocity ratios for the diagnosis of vasospasm after subarachnoid hemorrhage: preliminary report. 1996.

Sloan, MA, Tracy JK, Grattan LM, Wozniak MA, Jones DA, Deaver RC, Rigamonti D, Aldrich EF, Price TR: Are Transcranial Doppler (TCD) Measurements Associated with Chronic Neuropsychological Deficits After Subarachnoid Hemorrhage? A Pilot Study.

Aldrich EF, Chin LS, DiPatri AJ, Eisenberg HM. In: Sabiston Textbook of Surgery, The Biological Basis of Modern Surgical Practice. Townsend, Beauchamp, Evers, Mattox. Seventeenth Edition. *Neurosurgery* Section XIII.

Rauchwerger JJ, Closson CC, Kent JL, Aldrich EF, Zoarski, GH: Rapid Epidural Abscess Formation During Spinal Cord Stimulator Trial. Submitted November 2006.