

NAVRAJ SINGH HERAN

Curriculum Vitae

EDUCATION and QUALIFICATIONS

2005 January—January 2007

Fellow—Roosevelt Hospital, Endovascular Neurosurgery, New York, New York

2004 July—January 2005

Attending Neurosurgeon—Royal Columbian Hospital, New Westminster, British Columbia

2003 April—June 2004

Chief Resident—University of British Columbia, Vancouver General Hospital, British Columbia

2003 March

Elective—Victoria General Hospital, Victoria, British Columbia
General Neurosurgery

2003 February

Elective—Barrow Neurological Institute, Phoenix, Arizona
Neurovascular Service—Drs. Robert Spetzler and Joseph Zabramski

2002 December

Elective—Beth Israel Hospital, NY, NY
Endovascular Neurosciences—Supervisor—Dr. Alejandro Berenstein

2002 October-November

Elective—Royal Columbian Hospital, New Westminster, British Columbia
General Neurosurgery

1998 - 2004

UNIVERSITY OF BRITISH COLUMBIA
Vancouver General Hospital and British Columbia Children's Hospital
Neurosurgical Residency

1994 - 1998

UNIVERSITY OF BRITISH COLUMBIA
Doctor of Medicine (MD)

1990 – 1994

UNIVERSITY OF BRITISH COLUMBIA
Bachelor of Science (PHYSIOLOGY [HON])

1985 – 1990

DELVIEW AND NORTH DELTA SENIOR SECONDARY HIGH SCHOOLS
High School Diploma

PROFESSIONAL ORGANIZATIONS

Congress of Neurological Surgeons
American Association of Neurological Surgeons
AANS/CNS Section on Tumors
AANS/CNS Section on Cerebrovascular Surgery
Canadian Neurosurgical Society
Canadian Congress of Neurological Sciences
Fellow of Royal College of Physicians and Surgeons of Canada
Canadian Medical Association
British Columbia Medical Association

PROFESSIONAL MEETINGS and COURSES

Congress of Neurological Surgeons Annual Meeting 1998, 1999, 2000, 2001, 2002, 2003
American Association of Neurological Surgeons Annual Meeting 2001
Section of Cerebrovascular Surgery/American Society of Interventional and Therapeutic Neuroradiology Annual Meeting 2003, 2004, 2006
American Society of Neuroradiology Annual Meeting, Vancouver 2002
Barrow Neurological Institute Symposium: Breakthroughs in Neurosurgery 2003
Barrow Neurological Institute Skull Base and Cerebrovascular Neurosurgery Course 2003
Neuroscience of Cerebral Vessels: Westminster Surgical Journal Club, Royal Columbian Hospital March 24, 2004 RCPS CME accredited lectures.

- 1) Pathophysiology of Ischemia
- 2) Surgical Revascularization

Normal Pressure Hydrocephalus Symposium, New Orleans 2004
AO/ASIF Comprehensive Spine Surgery Course, Quebec City 2003
Canadian Association of Neurological Nursing—Speaker 2000, 2002, 2004
Lougheed Microsurgical Course, Toronto 2000

RESEARCH and PUBLICATIONS

Publications

Cochrane D, Kestle J, Steinbok P, Evans D, Heran N. Model for the cost analysis of shunted hydrocephalic children. *Pediatric Neurosurgery*. 23(1):14-9, 1995.

Oliveira M, Steinbok P, Wu J, Heran N, Cochrane D. Spontaneous resolution of calvarial eosinophilic granuloma in children. *Pediatr Neurosurg*. 2003 May;38(5):247-52.

Heran NS, Steinbok P, Cochrane DD. Conservative neurosurgical management of intracranial epidural abscesses in children. *Neurosurgery*. 2003 Oct;53(4):893-7.

Heran NS, Berk C, Constantoyannis C, Honey CR. Neuroepithelial cysts presenting with movement disorders: two cases. *Can J Neurol Sci*. 2003 Nov;30(4):393-6.

Heran NS, Heran MS, Woolfenden AR. A corticosteroid-responsive aneurysmal lenticulostriate vasculopathy. *Neurology*. 2003 Dec 9;61(11):1624-5.

Heran NS, Hentschel SJ, Toyota BD. Jugular Bulb Oximetry for Prediction of Vasospasm Following Subarachnoid Hemorrhage. *Can. J. Neurol. Sci*. 2004; 31: 80-86.

Steinbok P, Heran N, Hicdonmez H, Cochrane DD, Price A: Minimizing blood transfusions in the surgical correction of coronal and metopic craniosynostosis. *Childs Nerv Syst*. 2004 Jul;20(7):445-52. *Epub* 2004 May 26.

Yong R, Heran N. Traumatic carotid cavernous fistula with bilateral carotid artery and vertebral artery dissections. *Acta Neurochir (Wien)*. 2005 Oct;147(10):1109-13.

Heran NS, Song JK, Namba K, Smith W, Niimi Y, and Berenstein A. The utility of DynaCT in neuroendovascular procedures. *Amer Journ Neurorad*. Feb 2006, 27:330-332.

In Progress

Title of project	Status
Heran NS, Heran MS, Yong R, Fairholm D, Yip S. Primary intradural extra-arachnoid Hodgkin's lymphoma of the cervical spine.	Submitted—Journal of Neurosurgery
Berenstein A, Song JK, Niimi Y, Namba K, Brisman JL, Heran NS, Nahoum MC, Madrid M, Kupersmith M. Treatment of Cerebral Aneurysms with Hydrogel-Coated Platinum Coils (Hydrocoil): Early Results of the First 100 Consecutive Patients.	Submitted—American Journal of Neuroradiology
Heran NS, Song JK, Kupersmith MJ, Niimi Y, Namba K, Langer DJ, and Berenstein A. Large Ophthalmic Segment Aneurysms with Anterior Optic Pathway Compression: Assessment of Anatomic and Vision Outcomes after Endosaccular Coiling.	Submitted—Journal of Neurosurgery
Heran NS, Niimi Y, Namba K, Song JK, and Berenstein A. Intentional delayed balloon remodeling technique within Neuroform stents for endosaccular coiling of wide-necked intracranial aneurysms.	Submitted—American Journal of Neuroradiology
Heran NS, Song JK, Kupersmith MJ, Niimi Y, Namba K, Langer DJ, Sen C, Ostergren L, Lefton D and Berenstein A. Use of Quantitative MRA (NOVA) for guiding extracranial to intracranial bypass surgery in the management of complex intracranial aneurysms.	Submitted—Neurosurgery

Abstract Presentations

Meeting	Abstract	Year
CNS—Oral Presentation	Heran NS, Steinbok P, Cochrane DD. Conservative neurosurgical management of intracranial epidural abscesses in children.	Philadelphia 2002
Canadian Congress of Neurological Sciences— Platform Presentation	Heran NS, Redekop G. Safety of surgical treatment for patients with unruptured middle cerebral aneurysms: recommendations for management.	Vancouver 2002
Canadian Congress of Neurological Sciences—Poster Presentation	Heran NS. Heran MS, Woolfenden AR. A steroid-responsive aneurysmal lenticulostriate vasculopathy.	Vancouver 2002
AANS —Poster Presentation	Heran NS, Hentschel S, Toyota, B. Jugular bulb oximetry in prediction of cerebral vasospasm following aneurysmal subarachnoid hemorrhage.	Chicago 2002
ASPN—Oral Presentation	Oliveira M, Heran N. Cochrane DD, Steinbok P. The management of eosinophilic granuloma affecting the skull: A review.	2003
WFITN—Oral Presentation ASITN—Poster Presentation	Heran N, Song J.K, Namba K, Smith W, Niimi Y, Berenstein A. The utility of DynaCT in neuroendovascular procedures.	Venice 2005 Orlando 2006
WFITN—Oral Presentation ASITN—Poster Presentation	Berenstein A, Song JK, Niimi Y, Namba K, Brisman JL, Heran N, Nahoum MC, Madrid M, Kupersmith MJ. Treatment of cerebral aneurysms with hydrogel-coated platinum coils (Hydrocoil): Early results of the first 100 consecutive patients.	Venice 2005 Orlando 2006
ASITN—Poster Presentation	Berenstein A, Song JK, Niimi Y, Namba K, Brisman JL, Heran N, Kupersmith MJ. Coiling of large cerebral aneurysms with Hydrocoil: Early results from a single institution.	Orlando 2006
ASITN—Poster Presentation Canadian Congress of Neurological Sciences— Poster Presentation	Heran NS, Song JK, Kupersmith MJ, Niimi Y, Namba K, Langer DJ, and Berenstein A. Large Ophthalmic Segment Aneurysms with Anterior Optic Pathway Compression: Assessment of Anatomic and Vision Outcomes after Endosaccular Coiling.	Orlando 2006 Montreal 2006
Canadian Congress of Neurological Sciences— Poster Presentation	Heran NS, Song JK, Kupersmith MJ, Niimi Y, Namba K, Langer DJ, Sen C, Ostergren L, Lefton D and Berenstein A. Use of Quantitative MRA (NOVA) for guiding extracranial to intracranial bypass surgery in the management of complex intracranial aneurysms.	Montreal 2006
Canadian Congress of Neurological Sciences— Poster Presentation	Heran NS, Chwajol M, Lefton D, Langer DJ. Correlation between individual vessel arterial blood flow measured with MRI-NOVA computer program and blood velocities measured by transcranial Doppler ultrasonography in evaluating cerebral vasospasm after subarachnoid hemorrhage.	Montreal 2006
Canadian Congress of Neurological Sciences— Poster Presentation	Heran NS, Niimi Y, Namba K, Song JK, and Berenstein A. Intentional delayed balloon remodeling technique within Neuroform stents for endosaccular coiling of wide-necked intracranial aneurysms.	Montreal 2006

Award Presentations

Meeting	Abstract	Year
Canadian Congress of Neurological Sciences— KG Mackenzie Neurosurgical Resident Clinical Research Award Platform Presentation	Heran NS, Hentschel SJ, Toyota BD. Jugular Bulb Oximetry for Prediction of Vasospasm Following Subarachnoid Hemorrhage.	Quebec City 2003

AWARDS and DISTINCTIONS

Awards for Scholarship

Undergraduate:

Wesbrook Scholar – 14 awards to the top all around students in all disciplines at U.B.C. (1992/93)

Science Scholar – top 20 U.B.C. science students (1992/93)

University of British Columbia Scholarship (1990/91, 1992-1994)

Dean's Honor List (1991-1994)

Provincial Academic Scholarship (1990)

President's Entrance Scholarship to Simon Fraser University - declined (1990)

Medical Undergraduate:

John J Mason Memorial Scholarship (1996/97)

H Rocke Robertson Prize in Surgery (1996/97)

David and Anne Beach Scholarship (1996/97)

Dr. and Mrs. S Schaffer Memorial Scholarship (1996/97)

Thomas and Myrtle Gibson Memorial Scholarship (1995/96)

Chan and Peggy Gunn Prize (1995/96)

Bristol-Myers Squibb Medicine Prize (1995/96)

Harold James Russell Prize (1994/95)

D Harold Copp Prize in Physiology (1994/95)

William A Webber Prize in Anatomy (1994/95)

Hamber Scholarship in Medicine (1994/95)

University of British Columbia Scholarship (1994 - 1998)

Postgraduate (Residency):

KG Mackenzie Prize for Clinical Neurosurgery Research 2003