

6. EMPLOYMENT RECORD

(a) Prior to coming to UBC

<u>Dates</u>	<u>Rank or Title</u>	<u>University, Company, Organization</u>
July 1995-97	Lecturer	Div Neurosurgery, Dept Clinical Neurological Sciences, UWO
July 97-Oct 01	Assistant Professor	Div Neurosurgery, Dept Clinical Neurological Sciences, UWO

(b) At UBC

<u>Dates</u>	<u>Rank or Title</u>
Oct 2001-Jul 2003	Assistant Professor, Division of Neurosurgery, Combined Neurosurgery and Orthopedic Spine Program
Jul 2003-present	Clinical Assistant Professor, Division of Neurosurgery
Mar 2004-	Clinical Associate Professor, Division of Neurosurgery
Sep 2007-present	Chief of Surgery, Lions Gate Hospital, Vancouver Coastal Health

(c) Date of granting tenure

(d) At Hospital

<u>Dates</u>	<u>Rank or title</u>	<u>University, Company or Organization</u>
Oct 2001-Jul 2003	Active Staff	Vancouver Coastal Health/Vancouver General Hospital
Jul 2003-present	Active Staff	Vancouver Coastal Health/Lions Gate Hospital

7. LEAVES OF ABSENCE

8. TEACHING

a) Areas of special interest and accomplishments

Neurotrauma curriculum (1995-2001) UWO medical school undergraduate curriculum
 Post Graduate Residency teaching (General Surgery, ICU, ENT residents), ICU Nursing/Health Professional

Epidemiology and Biostatistics: Critical Appraisal of Literature; Neurosurgical resident teaching 1996-2001

LMCC Lecture Series: Neurosurgery (UWO Medical School 1996-2001)

b) Courses Taught at UBC)

b.1) Percentage of Overall Time Devoted To:

Non-clinical Instruction	
Clinical instruction	5
Research/Publication	10
Administration	5
Clinical Practice	80
Total	100

8. TEACHING, cont'd.

b.2) Undergraduate Medical Student Teaching

Summary of Time Expended

Undergraduate Scheduled Activities						
Phase IV Clerkship (2001-2003)	25 hours					
TOTAL	25					

b.3) Supervision of Resident/Fellows/Students with & Without Clinical Service Delivery

Summary of Time Expended (Students)

Activity	Type of Trainee	Service Related Hours	Non-Service Related Hours
Resident (neuro/ortho) training	PGY1-6	10/01-7/03	
Fellow (spine)		10/01-7/03	
Resident	Foreign medical grad	10/08-12/08	
Total Hours		6000 (approx)	

Detailed Teaching Log

Scheduled Activities

(b) Courses taught at UBC - See Teaching Activities Summary for further information

Undergraduate Teaching

Scheduled Activities

Phase IV

Phase IV Seminars

May 4/02	Trauma, Brain & Spinal Cord	1.5 hrs
Oct 4/02	Spinal cord & nerve root compression	1.5 hrs
May 30/03	Spinal cord & nerve root compression	1.5 hrs

Phase IV

Oral Exams	Oct 23, 2002	3 hrs
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Postgraduate Teaching

Scheduled Activities - participation in organized resident academic events:

Professor's Rounds

2002/03

Aug 14/02, Oct 30/02, Feb 12/97, Jun 4/97

2 hrs

8. TEACHING, cont'd.

Postgraduate Teaching

Scheduled Activities - participation in organized resident academic events:

Presentation at formal rounds

Neuroscience Grand Rounds

Traumatic Brain Injury: Historical perspectives and future directions. Neuroscience Grand Rounds, Vancouver General Hospital, Nov 21, 2001

Neurosurgery resident examiner

2009 4h

2010 Mar 31 4h and April 28 4h

Other Departments

May 3/02	UBC Neurology resident teaching: Degenerative Spine Disease	1hr
Aug 15/02	ICU residents. Severe Head Injury	2 hrs
Feb 25/03	Anesthesia resident lecture UBC; Spine and Spinal Cord; anesthetic considerations	1.5 hrs
Mar 3/03	UBC Division of Rheumatology Intracity Noon rounds; Percutaneous Vertebroplasty (Peter Munk, Maziar Badii, Ramesh Sahjpaal MD)	1 hr

b.4) Courses Taught Prior to Coming to UBC

1. Lecture on Epilepsy Surgery, Epilepsy London and Area, London, ON, Nov 1996
2. Core General Surgery Neuroscience Lecture, Head and Spine Injury, University of Western Ontario, London, ON, Nov 1996
3. LMCC Neurosurgery Review Lecture, University of Western Ontario, London, ON, 1996
4. Neuroanaesthesia Lecture Series. Posterior Fossa Surgery and Anaesthesia, Department of Anaesthesia, London Health Sciences Centre, London, ON, April, 1997
5. Neurolept Anaesthesia and Epilepsy Surgery. Temporal Lobe Epilepsy Workshop, London, ON, Nov 1997
6. Neurotrauma. Trauma Unit Lecture Series, London Health Sciences Centre, Victoria Campus, London, ON, Dec 1997: 1 hour
7. Neurotrauma. Otolaryngology Residents Seminar, London Health Sciences Centre, University Campus, London, ON, Jan 1998: (2 hours)
8. Neurotrauma. General Surgery Residents Seminar, London Health Sciences Centre, University Campus, London, ON, Mar 1998 (2 hours).
9. LMCC Review Lecture, U.W.O. Medical Students, Mar 1998: (2 hours)
10. Cerebral Trauma: Neuroscience Course. Meds II. Feb 13, 1999 (2 hours)
11. ICP monitoring in Severe TBI (Dept. Anesthesia, LHSC), Mar 3, 1999 1hr
12. LMCC lecture, neurosurgery; Apr 5, 1999 2hrs
13. Craniocervical trauma Lecture to Otolaryngology residents, UWO. Feb 11, 2000: 2 hrs
14. Cranial Trauma lecture to Meds II, UWO. Feb 21, 2000 2 hrs
15. Meds IV; selective; physiology of neurotrauma and coma. Mar 22, 2000 (1.5h)

16. Traumatic brain injury, cervical spine and spinal cord injuries (for General Surgery Residents), Nov 22, 2000
17. Meds II; Head Injury, Feb 5, 2001 (2 hours)
18. Meds IV; Head/Trauma Session, Feb 22, 2000 (2 hours)
19. Meds IV; Neurophysiology Selective (head injury and coma) Mar 2, 2000 (2 hrs)
20. July 2001: Spinal Instrumentation: Neurosurgery Residents Practical Session (LHSC) 4hrs

c) *Supervision of Graduate Student Research*

d) *Continuing Education Activities*

Local: UBC Sponsored.

1. Neuronavigation and Image Guided Spine Surgery. Neurosciences Grand Rounds, Vancouver General Hospital, Division of Neurosurgery, UBC, Vancouver BC, Apr 21, 2001 (1 hr)
2. Posterior Lumbar Interbody Fusion: preliminary outcome at Vancouver General Hospital, Division of Neurosurgery, UBC, Vancouver BC April 21, 2001 (1 hr)
3. Cervical Spine Degenerative Disease; anterior and posterior instrumentation, AO ASIF OR personnel practical session, Burnaby BC. Oct 24, 2001: (20 min)
4. Traumatic Brain Injury: Historical perspectives and future directions. Neuroscience Grand Rounds, Division of Neurosurgery, UBC Nov 21, 2001 (1 hr)
5. Spinal Stenosis. Rheumatology residents and fellows, UBC. Oct 8, 2004 (1 hr)
6. What's new in Spine Surgery; Lions Gate Hospital Grand Rounds, Sept 15, 2003
7. Spinal Cord Injury; Lions Gate Hospital Nurses/Allied Health May 2004
8. Spinal Column Trauma; Lions Gate Hospital Trauma Rounds Jun 24, 2004
9. Awake Craniotomy; Dept of Anesthesia, Lions Gate Hospital Jul 20, 2004
10. Spinal Infections Mar 28, 2008. Dept Medicine Grand Rounds St Pauls Hospital
11. Spinal Infections Jul 25, 2008. Dept Medicine Resident noon rounds.
12. Controversies in Complex Spine Surgery, DuPuy Miami Oct 30, 31, 2008
13. The Ageing Spine. DuPuy Montreal Oct 1-3, 2009.

Local: Non-UBC Sponsored

1. Spine Surgery – An Introduction: Cambie Surgery Center. Sep 03, 2003
2. Spine Surgery – An Update: Cambie Surgery Center, Mar 04
3. Spine Surgery – An Update: Cambie Surgery Center, Feb 1, 05
4. Kyphoplasty; Lions Gate Hospital Grand Rounds, Feb 20, 2006 (1hr)
5. Osteoporosis and Kyphoplasty: Vancouver BC May 31, 2006 (sponsored by Kyphon Canada and Proctor and Gamble and Sanofi Aventis).
6. Kyphoplasty: Lions Gate Staff, Oct 30, 2006, North Vancouver BC (sponsored by Kyphon Canada)
7. Kyphoplasty and osteoporosis. White Rock BC, Nov 28, 2007 for primary care physicians, sponsored by Sanofi Aventis
8. Western Canada Advances in Spine Surgery Vancouver Course. Course Director. May 31, 2008. 12 attendees. Medtronic sponsored. Center for Excellence in Surgical Education and Innovation. Course Co-Director

National

1. Head and Spine Injury, Canadian Association of Neuroscience Nurses, London, ON, Mar 1993
2. Howard P, Girvin J, Menon R, **Sahjpaul RL**: Pre-surgical brain mapping with functional magnetic resonance imaging. Grand Rounds presentation, Department of Clinical Neurological Sciences, University of Western Ontario. Dec 1998

3. Complex Spine Neurosurgery and Instrumentation; current indications and techniques. Neurosurgical Rounds Nov 1999 (1.5 hrs)
4. Epilepsy surgery; Epilepsy Waterloo & Wellington, Apr 14, 2000 (1 hr)
5. Complex Spine Neurosurgery and Instrumentation; current indications and techniques. CNS Grand Rounds, Jul 18 2000 (1hr)
6. Traumatic brain injury (Critical Care nurses, Lamplighter Inn, London, Ontario) Jun 12, 2001 (2 hrs)
7. Image guided surgery (OR nurses, University Campus, London Health Sciences Centre), Jun 27, 2001 (45 min.)
8. Neuronavigation and Image Guided Spine Surgery. Western Canada Spine Course, University of Calgary, Calgary Alberta Nov 27, 2001 (1hr)

Practical Sessions

Oct 24, 2001: Spinal Instrumentation AO ASIF Practical Course for OR personnel, Burnaby BC, (8 hrs)

Nov 27 2001: Spinal Instrumentation Hands-On course, Western Canada Spine Course, University of Calgary, Calgary Alberta (6 hours)

June 19 2002: Spinal Instrumentation Innovative Devices: Instructor; Hands-On course, Canadian Congress of Neurological Sciences Complications in Spinal Surgery: Strategies for Avoidance and Management. 8 hours. (Vancouver BC)

June 18, 2003: Spinal Instrumentation: Instructor; Hands-On course, cervical and lumbar instrumentation. Canadian Congress of Neurological Sciences Controversies in Spine Surgery 8 hours. (Quebec City, Quebec)

Jun 11, 2004: Instructor, Hands-On Course, cervical and thoracolumbar instrumentation. CCNS Controversies in Spine Surgery Course 8 hrs (Calgary AB)

Jun 15, 2005: Instructor, Hands-On Course, Complex Spine Surgery. CCNS Ottawa, ON

d.2) Invited / Visiting Lecture

- 1995 Grand Rounds presentation: Neurolept Anaesthesia/Awake Craniotomies and Epilepsy Surgery, University of Ottawa, Ottawa, Ont
- 1996 Neurolept Anaesthesia and Epilepsy Surgery, All India Institute of Medical Sciences, New Delhi, India
- 1996 Neurolept Anaesthesia and Epilepsy Surgery, King Edward Memorial Hospital, Bombay, India
- 1996 Neurolept Anaesthesia and Epilepsy Surgery, Hinduja Hospital, Bombay, India
- 1998 Epilepsy Surgery in Children and Adults; Recent advances and techniques. International Neurosciences Update, All India Institute of Medical Sciences, New Delhi, India Nov 21-23, 1998
- 1998 Epilepsy Surgery in Children and Adults; Recent advances and techniques. King Edward Memorial Hospital, Bombay, India
- 1998 Awake Craniotomy; Indications and Techniques. Department of Neurosurgery, Semmes Murphey Clinic, University of Tennessee, Memphis, Tennessee
- 2001 Image Guided Spine Surgery. University of Calgary, Calgary Alberta. Nov 01
- 2002 Complication Avoidance and Management in Spine Surgery, Canadian Congress of Neurological Sciences Annual Mtg; Vancouver BC, June 2002
- 2003 Controversies in Spine Course, Canadian Congress of Neurological Sciences Annual Mtg; Quebec City, June 18, 2003 (Anterior Cervical Discectomy with Plating)

- 2004 Complex Spine Course, Canadian Congress of Neurological Sciences Annual Mtg, Calgary Jun9-12, 2004: Anterior Odontoid fusion techniques
- 2005 Spine Trauma, Royal Columbian Hospital Trauma Rounds, March 17, 2005
- 2005 Spine Surgery and Orthoses. Lions Gate Hospital. OT and Physiotherapy. Sep 22, 2005
- 2005 Grand Rounds, University of Manitoba. Section of Neurosurgery. APOE and recovery from Spinal Cord Injury. Nov 25, 2005
- 2006 Canadian Association of Neuroscience Nurses: Back to the Basics; Artificial Discs. 1hr. Royal Columbian Hospital April 8, 2006
- 2006 Kyphoplasty. Lions Gate Hospital: Oct 06 2.5hr. sponsored by Kyphon Canada
- 2006 **CCNS Montreal lecture and presentations**
- 2007 Kyphoplasty. Steveston BC
- 2007 Kyphoplasty. Richmond Physicians Association, Richmond BC
- 2007 Advanced Kyphoplasty: Guest Speaker. Vernon BC Sep 22, 2007
- 2007 Cervical Spondylotic Myelopathy. Posterior Approaches. Spine Session, CFNS Edmonton Jun 2007
- 2008 Spinal Infections: St Pauls Hospital Dept Medicine Grand Rounds May 25, 2008
- 2008 St Pauls Hospital Physio/OT lecture Spine Precautions, bracing and instability 1 hr prep time Nov 27, 2008
- 2009 Kyphoplasty for North Shore Physicians, N Vancouver BC. 2hrs
- 2009 ACDF for Cervical Radiculopathy. Controversies in Spine Session. CNSF Halifax NS, Jun 10, 2009
- 2009 Forefronts in Neurology Guest Lecturer Cervical Myelopathy. 45 min Whistler BC Sept 25, 26, 27 2009
- 2009 St Pauls Hospital annual CME Main Lecture Series Guest Lecturer. Vertebroplasty and Kyphoplasty 30 min Nov 19, 2009
- 2010 First Medtronic Canadian Advanced Nurses Course, Feb 25, 26, 27 Calgary Alberta. Guest Lecturer MIS Spine and Kyphoplasty.
- 2010 Lumbar spondylolisthesis: Onlay fusion. Controversies in Spine. CFNS Quebec City Jun 11 2010
- 2010 Kyphoplasty Update. Invited by Forteo, with Dr Badii
- 2010 Kyphoplasty and Vertebroplasty Update. St Joseph Hospital Grand Rounds Oct 26 2010 1hr.
- 2010 Spinal Decompression – non surgical St Pauls Hosp CME Nov 2010. Vancouver Convention Center 1hr.
- 2010 Kyphoplasty and Vertebroplasty Update. North Shore GPs. West Vancouver Nov 2010
- 2011 Improving Neurosurgical Care in BC. UBC Neuroscience Grand Rounds Oct 26 2011. 1 hr

9. SCHOLARLY AND PROFESSIONAL ACTIVITIES

a) AREAS OF SPECIAL INTEREST AND ACCOMPLISHMENT

- 1995-1997: Participating surgeon, NASCET study, London Ontario
- 1999: Participating surgeon, EESTLE study, London Ontario
- 1995-present Epidemiological Studies and Clinical Trials in Neurosciences:
- 1999-2001 Planning and Developing Complex Spine Neurosurgical Program at London Health Sciences Center, UWO
- 2000-2001 Neurotrauma: Evaluation and Implementation of the Lund Protocol for the management of Severe Head Injury, in London, Ontario in consideration of a prospective trial comparing the Lund Protocol with conventional therapy.
- 2003-present Co-Chair, ThinkFirst, BC Chapter
- 2003-present Planning and Establishing Complex Spinal Neurosurgery Service at Lions Gate Hospital

2005 Mar 10-11: Organizer: "Putting the Pieces Together" – A Multidisciplinary Neurology/Neurosurgery Educational Workshop for Lions Gate Hospital. Funding secured: \$7,500.00

b) *Research or equivalent grants (indicate whether grant is obtained competitively (C) or noncompetitively (NC))*

\$4, 820.00 (NC) Funding for RCT comparing dexamethasone to placebo in patients undergoing subdural electrode insertion for epilepsy, as partial requirement for post graduate Masters of Health Sciences Degree, University of Western Ontario

\$30,000 (C) Rick Hansen Man In Motion Research Fund: The Relationship between Apolipoprotein E Genotype and Recovery from Spinal Cord Injury.

c) *Research or Equivalent Contracts (indicate whether grant is obtained competitively (C) or noncompetitively (NC))*

d) *Invited Research Presentations*

e) *Other Research Presentations*

1. **Sahjpaul RL**, Heeneman H. Radiotherapy for Acute Parotitis (presented at Resident Research Day, Dept of Otolaryngology, UWO, 1990)
2. **Sahjpaul RL**, Elisevich K, Barr HWK. Posterior Cervical Fusion with Halifax Clamps: A Review of the Experience in London. (Resident research day presentation, Dept Clinical Neurological Sciences, UWO, 1992)
3. Chen R, **Sahjpaul RL**, Young B, DelMaestro R, (1994). Initial Enlargement of the Opposite Pupil as a False Localizing Sign in Intraparenchymal Frontal Hemorrhage. Can. J. Neurol. Sci. Supple. 2:S8.
4. **Sahjpaul RL**, Drake CG, Del Maestro RF, Lownie SP. Vasospasm Following Clipping of Unruptured Intracranial Aneurysms. A Report of Three Cases and Review of the Literature (Poster Presentation, Canadian Congress of Neurological Sciences annual meeting, Victoria BC, June 1995)
5. **Sahjpaul RL**, Girvin JP. Awake Craniotomies for Resection of AVM's in Eloquent Brain. (Poster Presentation, Canadian Congress of Neurological Sciences Annual Meeting, Victoria BC, June 1995)
6. **Sahjpaul RL**, Lee DH, Munoz D. Fatal Reaction Following Inadvertent Intrathecal Administration of Ionic Contrast Agent (Poster Presentation, Canadian Congress of Neurological Sciences Annual Meeting, Victoria, B.C., June 1995)
7. Abdulhak M, **Sahjpaul RL**, Drake CG, Hammond R. Fatal Traumatic Rupture of a Vertebral Berry Aneurysm (Resident Research Day Presentation, Dept Clinical Neurological Sciences, UWO, 1997)
8. Abdulhak M, **Sahjpaul RL**, Drake CG, Hammond R. Fatal Traumatic Rupture of a Vertebral Berry Aneurysm (Poster Presentation, Canadian Congress of Neurological Sciences Annual Meeting, Saskatoon, June 1997)
9. **Sahjpaul RL**, Lee DH. Septic Cavernous Sinus Thrombophlebitis, Cerebellar Abscess and Subdural Empyema, and Pituitary Abscess Secondary to Pansinusitis-Case Report (abstract). Can. J. Neurol. Sci. Vol. 25 (Supple. 2) May 1998.
10. **Sahjpaul RL**, Girvin JP. Craniotomy Under Neurolept Anaesthesia-Indications and Techniques (abstract). Can J. Neurol. Sci., Vol 25 (Supple. 2) May 1998.
11. Jhavar BJ, Steven DS, **Sahjpaul RL**, DelMaestro RF. The Role of Nuclear Medicine Shuntograms in the Evaluation of Patients with VP Shunt Malfunction. (abstract). Can. J. Neurol Sci., Vol. 25 (Supple. 2) May 1998 and platform presentation Canadian Congress of Neurological Sciences Annual Meeting
12. Jhavar BJ, Steven DS, **Sahjpaul RL**, DelMaestro RF. The Role of Nuclear Medicine Shuntograms in the Evaluation of Patients with VP Shunt Malfunction. Congress of Neurological Surgeons Annual Meeting, 1999 Boston Mass.

13. Larrazabal RA, Eliasziw M, Lownie SP, Ferguson GG, Barr HWK, **Sahjpaul RL**. Pre-operative cerebral angiography as a predictor of carotid stump pressure during endarterectomy. Resident/fellow/graduate student research day, London Health Sciences Centre and The University of Western Ontario, December 14, 1998.
14. Duggal N, Hammond R, Girvin J, Parrent A, **Sahjpaul RL**. Nestin expression in developmental brain lesions. Resident/fellow/graduate student research day, London Health Sciences Centre and The University of Western Ontario, December 14, 1998.
14. **Sahjpaul RL**, Pondial M, Wiebe S. Invasive monitoring for medically intractable epilepsy. Results with subdural electrodes. Platform presentation. Congress of Neurological Sciences Annual Meeting Edmonton, 1998.
15. Lee T, **Sahjpaul RL**, Foley KTF: Outcome from instrumented posterior Lumbar Interbody fusion. Science & Spine & Management, New Orleans LA, Nov 1999
16. **Sahjpaul RL**, Wiebe S, Kubu C, Derry P. The second sensory area. Seizures originating in and resections. Poster Presentation at Canadian Congress of Neurological Sciences, Ottawa ON, June 14-17, 2000
17. **Sahjpaul RL**, Kachur E. Pituitary carcinoma. A rare aggressive neoplasm. Poster Presentation at Canadian Congress of Neurological Sciences, Ottawa ON, June 14-17,2000
18. Duggal N, Hammond R, Girvin J, Parrent A, **Sahjpaul R**. Malignant Potential of Dysembryoplastic Neuroepithelial Tumor. Poster Presentation. American Association of Neurological Surgeons Annual Meeting, San Francisco 2000
19. Lee T, Foley K, **Sahjpaul R**. Preliminary followup of Impacted Posterior Lumbar Interbody Fusion. Poster. Joint Section on Spine and Peripheral Nerves, AANS 2000.
20. Foley K, Lee T, **Sahjpaul R**. Impacted Posterior Lumbar Interbody Fusion with Machined, Pre-sized Allograft. Poster. Joint Section Spine and Peripheral Nerves, AANS, 2000
21. Foley K, **Sahjpaul R**, Rodts G. Virtual Fluoroscopy improves lumbar pedicle screw placement Accuracy. Oral Presentation. CNS Annual Meeting, San Antonio, 2000
22. Foley K, Lee T, **Sahjpaul R**. Impacted Posterior Lumbar Interbody Fusion with Machined, Pre-sized Allograft. Oral Presentation, CNS Annual Meeting, San Antonio, 2000
23. Silver B, **Sahjpaul RL**, Hachinski V, Gulka I. De Novo intraluminal carotid thrombus. Recipient Bayer Prize, Canadian Congress Neurological Sciences, Ottawa Ontario June14-17, 2000
24. Lownie S, **Sahjpaul RL**. Stent Angioplasty of Traumatic Superior Sagittal Sinus Occlusion. Poster presentation. 35th Annual meeting of Canadian Congress of Neurological Sciences, Ottawa, Ontario.
25. **Sahjpaul RL**, Lee T, Foley KT. Outcome analysis of instrumented posterior lumbar interbody fusion. Canadian Spine Society Meeting, Mont Tremblant March 21-24, 2001
26. **Sahjpaul RL**, Foley KT. Virtual fluoroscopy improves lumbar pedicle screw placement-a cadaveric study. Canadian Spine Society Meeting, Mont Tremblant March 21-24, 2001
27. Galvin N, Girvin J, Parrent A, **Sahjpaul RL**, Kubu C. Post-operative language outcome following dominant temporal lobectomy. International Neuropsychological Society, 30th Annual Meeting, February 13-16, 2001, Toronto, Ontario.
28. **Sahjpaul RL**. Artificial Disc Surgery: BC Neurosciences Day, Vancouver BC March 1,2001
29. Fisher C, Bishop P, Dvorak M, Fairholm D, Wing P, Boyd M, Wright C, **Sahjpaul R**. Outcome evaluation of the operative management of lumbar disc protrusion causing sciatica. Canadian Spine Society 2nd Annual meeting, Vernon, BC. March 20-23, 2002
30. Dvorak M, Kwon B, Fisher C, Wing P, Boyd M, **Sahjpaul R**. A prospective, randomized, clinical trial comparing anterior versus posterior stabilization for unilateral facet injuries of the cervical spine. Canadian Congress of Neurological Sciences, Vancouver BC, June 20, 2002.
31. **Sahjpaul RL**. C5/6 Discectomy with plate. Presented as part of Controversies in Spine Surgery Course. Canadian Congress of Neurological Sciences Annual Meeting, Quebec City June 16-21, 2003
32. Rabin D, McErlain D, **Sahjpaul R**, Holdsworth D, Duggal N, Norley C, Nikolov H. Evaluating Atlantoaxial Anatomy and Screw Placement with Three-dimensional Cone-beam Computed Tomography. Poster. Congress of Neurological Surgeons Annual Meeting, Denver, 2003.
33. **Sahjpaul RL**. T10 metastatic tumor: Biopsy Plus Radiation. Presented as part of Controversies in June 16-21, 2003

34. **Sahjpaul RL**, Cameron D. The Case of the Missing Screw. Poster presentation at CCNS Calgary Jun 9-12, 2004
35. Rabin D, McErlain D, Holdsworth D, **Sahjpaul R**, Duggal N. The Siemens C arm mounted X-ray image intensifier for evaluation of atlantoaxial disorders. Poster presentation at CCNS Calgary Jun 9-12, 2004
36. Neuronavigation and Image Guided Spine Surgery. Western Canada Spine Course, University of Calgary, Calgary Alberta (1hr) 2001 (Nov 27):
37. **Sahjpaul R**, Spacey S, Toyota B. Apolipoprotein E and recovery from Spinal Cord Injury-A Pilot Study. Platform Presentation at CCNS Calgary, Jun 11, 2004
38. **Sahjpaul R**. Odontoid fractures: Anterior Screw Fixation. Platform Presentation. Complex Spine Course, CCNS, Calgary Jul 04, 2004
39. Sahjpaul V, Fisher C, Dvorak M, Boyd M, Wing P, **Sahjpaul RL**. Accuracy of Thoracic Pedicle Screw Insertion. Platform presentation, North American Spine Society, Chicago II. Oct 19,2004
40. **Sahjpaul RL**, Yoshida S, Bicknell S, Coulter B. MR Spectroscopy for Brain Tumors: Preliminary Observations. BC Neurosciences Day, mar 4, 2005
41. **Sahjpaul RL**, Toyota B, Spacey S. The relationship between Apolipoprotein E genotype and recovery from Spinal Cord Injury : Results of a Pilot Study. BC Neurosciences Day, Mar 4, 2005, Vancouver BC.
42. **Sahjpaul RL**, Gul S, Padilla. Minimally Invasive Spine Surgery: The Lions Gate Experience. BC Neurosciences Day, Mar 2, 2007, Vancouver BC.
43. **Sahjpaul RL**, Gul S, Padilla J, Clement J: Safety of Kyphoplasty for Burst Fractures. Platform Presentation. Canadian Neurological Sciences Federation Annual Meeting, Edmonton AB, Jun 21, 2007
44. **Sahjpaul RL**, Toyota B: Venous Congestive Myelopathy-Case Report. Poster Presentation. CNSF Jun 19-22, Edmonton AB 2007
45. **Sahjpaul RL**, Gul S: Minimally Invasive Spinal Instrumented Fusion-Case Report. Poster Presentation, CNSF Jun 19-22, Edmonton AB 2007
46. **Sahjpaul RL**, Gul S: Intramedullary neurosarcooidosis-Case Report. Poster Presentation, CNSF Jun 19-22, 2007 Edmonton, AB 2007
47. **Sahjpaul RL**: Missed C Spine Injuries. A review of 4 cases. Platform presentation. CNSF Jun 19,2008. Victoria BC
48. Gul S, **Sahjpaul R**: Rapid Access Spine Clinic-The Lions Gate Hospital Experience. Platform presentation. CNSF Jun 19, 2008 Victoria BC
49. **Sahjpaul RL**: Minimally Invasive Surgery for Lumbar Spondylolisthesis. Preliminary Results. Poster presentation. CNSF Jun 20, 2008, Victoria BC
50. **Sahjpaul RL**, Gul S: Minimally invasive TLIF for lumbar spondylolisthesis. CNSF Jun 2009. Halifax NS Platform
51. **Gul S**, Sahjpaul RL: Surgical outcomes for ACDF patients receiving trabecular metal intervertebral body implants. CNSF Jun 2009 Halifax NS. Platform presentation
52. **Sahjpaul S**, Gul S, Padilla J: Siemens Arcadis Orbic C arm and BrainLab for thoracolumbar instrumentation. CNSF Jun 2010 Quebec City. Digital Poster
53. **Sahjpaul R**, Gooderham P: Bilateral C5 palsy following multilevel cervical laminectomy and fusion: case report and review of the literature. CNSF Jun 2010 Quebec City. Digital Poster
54. **Sahjpaul R**, Gul S, Heran M, Chapman K. Case report: spontaneous cervical spine cerebrospinal fluid leak. CNSF Jun 2010 Quebec City. Digital Poster

9. **SCHOLARLY AND PROFESSIONAL ACTIVITIES**, cont'd.

g) Scientific/Academic Conference Participation (Organizer, Keynote Speaker, etc.)

- 1995 Chair, Meet the Experts Session with M. Gazi Yasargil MD, Canadian Congress of Neurological Sciences, Annual Meeting, London, Ontario

- 1996 Chair, Epilepsy and Epilepsy Surgery, November 23, 1998. International Update on Neurosciences, All India Institute of Neurological Sciences, New Delhi, India
- 2002 (March) Moderator, plenary session, Canadian Spine Society 2nd annual mtg, Vernon, BC
- 2002 Guest Faculty, Complex Spine Course, CCNS Vancouver BC
(June) Co-Chair, Spine and Peripheral Nerve Platform Session, Canadian Congress of Neurological Sciences, Vancouver BC June 20, 2002
- 2003 Guest Faculty, Complex Spine Course, CCNS June 2004 Quebec City
- 2004 Guest Faculty, Complex Spine Course. CCNS June 9, 2004, Calgary: Anterior Odontoid Screw Fixation
- 2005 Guest Faculty, Complex Spine Course, CCNS June 14, 2005, Ottawa
- 2006 Moderator, Spine Session, CCNS Jun 17, 2006, Montreal
- 2007 Chair, General Neurosurgery Platform Session, CNSF Jun 21, 2007, Edmonton AB
Guest Faculty, Complex Spine Course, CNSF, Jun 20, 2007 Edmonton AB: Cervical Spondylotic Myelopathy- Posterior Approaches
- 2008 Poster Session Chair, Spine II Jun 20, 2008. CNSF Victoria BC.
- 2009 Poster Session Chair, Jun 2009, CNSF Halifax NS.
- 2010 Chair, Spine Platform Session, CNSF Jun 11, 2010, Quebec City.
- 2011 Co Chair; What's new in Neurosurgery. Jun 2011. CNSF Vancouver (2 h Jun 17)
- 2011 Poster Session Chair, Spine CNSF Vancouver (2h Jun 17)
- 2011 Spine Session, Complication avoidance and management. Invited speaker.

10. SERVICE TO THE UNIVERSITY

Administrative Appointments

Coordinator, Neurosurgery and Orthopedic resident education (Spine) 2001- (VGH & UBC)

Chief, Department of Surgery, Lions Gate Hospital, Sept 07-

Co-medical Director, Surgery Program, Lions Gate Hospital, Sept 07-

Member, Provincial Surgical Advisory Council 2009-present

Regional Surgical Executive Committee, Vancouver Coastal Health Authority, Sep 2007-present

Credential Committee, Lions Gate Hospital 2007-present

Medical Advisory Committee, Lions Gate Hospital 2007-present.

Member, Provincial Surgical Advisory Committee 2008-2010

Member and Surgeon Champion, Vancouver Coastal Health Authority, NSQIP Nov 2010-present

11. SERVICE TO THE COMMUNITY

a) *Memberships on scholarly societies*

Canadian Neurosurgical Society (1995-present)

Young Neurosurgeons Association of Canada (1995-present)

Ontario Association of Neurological Surgeons (1996-present)

Congress of Neurological Surgeons (Active Member) #5380

American Epilepsy Society (1998)

Think First (London) Chapter

Canadian Spine Society (2000)-ongoing

North American Spine Society 2001-ongoing

American Association of Neurological Surgeons Active Member 2005-present

American College of Surgeons Active Member 2006-present

b) *Memberships on other societies*, including office held and dates

Licentiate of the Medical Council of Canada (1987-present)
College of Physicians and Surgeons of Ontario (1988-present)
Ontario Medical Association (1988-present)
College of Physicians and Surgeons of British Columbia (2001-present)
British Columbia Medical Association (2001-present)
State of Tennessee Medical License (1999-2002)

c) *Memberships on Scholarly Committees, including offices and dates*

d) *Memberships on other committees, including offices held and dates*

Trauma Committee, Vancouver Coastal Health/Lions Gate Sept04-present

e) *Editorships*

11. SERVICE TO THE COMMUNITY, cont'd.

f) *Reviewer (journal, granting agency, etc. including dates)*

Canadian Journal of Neurological Sciences (1999-present)
Journal of Neuroanaesthesia (2000-present)
Journal of Neurosurgical Anesthesiology (2001)
Mayo Clinic Proceedings 2001
Canadian Journal of Neurological Sciences (2001-)
Canadian Congress of Neurological Sciences/Canadian Neurological Sciences Federation (2004-)
Stroke (Jan 2002)
Journal of Trauma (2003)
Canadian Journal of Surgery (2003)
Journal of Neurosurgery
Canadian Institute of Health Research Jan 07
Ontario Neurotrauma Initiative Sept 2007

g) *External Examiner* (indicate universities and dates)

h) *Consultant* (indicate organization and dates)

Biorthex (Montreal QC, May 03)

12. AWARDS AND DISTINCTIONS

a) *Awards for Scholarship* (indicate name of award, awarding organizations, date)

Reuben Wells Leonard Admission Scholarship, University College, University of Toronto

13. OTHER RELEVANT INFORMATION (Maximum one page)

Meetings Attended in the Last Five Years

Australasian Neurosurgical Society Annual Meeting, Fiji Sep 24-27, 2011
Congress of Neurological Surgeons Washington DC Oct 4-6 2011

Canadian Neurological Sciences Annual Meetings 1995-1998, 1999-2012 (except 2011 Quebec)
American Epilepsy Society Annual Meeting Boston 1999
Canadian Spine Society Annual Meeting 2001 Mt Tremblant , 2002 Vernon, BC (Co-chair scientific session), 2004 Sun Peaks BC
North American Spine Society Annual Meeting 2004 (Chicago Oct 26-29, 2004)
American Association of Neurological Surgeons, San Francisco April 2006
AANS Joint Section on Spine and Peripheral Nerve Phoenix AZ Mar 8-11, 2007
Neurological Society of India New Delhi Dec 07
CNS Annual Meeting Orlando Sep 08
NASS Oct 14-18 Toronto Ontario

Continuing Medical Education:

2003

Spine Artificial Disc Replacement, Minimally Invasive Spine Technologies, San Diego CA, Oct 21-23, 2003

2004

Radiation Exposure for Health Professionals, Vancouver Hospital, Nov 04 (3hrs)

2005

Minimally Invasive Spine Surgery Workshop, Feb 11, 2005, St Louis, MO. Hours 9.5 Cat 1
BC Neurosciences Day, Mar 4, 2005. 6hrs, Cat 1.
Vertebroplasty. Vancouver BC Aug 17, 2005 (1.5 credits Cat 1)
Kyphoplasty, Dallas Texas, Dec 2, 2005 (9.5h)

2006

31 mar 06-1apr 06 The Essential Soft Tissue Injury Conference 2006, Vancouver BC 7 hrs Level 1
22 apr 06-25 apr 06 American Association of Neurological Surgeons Annual Meeting, San Francisco. 15.75h
25 apr06-27 apr 06 Canadian Association of Physicians of Indian Heritage, Inagural meeting Toronto Ontario 4.0hrs RCPSC
Jun 14-18 Canadian Congress of Neurological Sciences Montreal, 19.75h
Kyphoplasty: Advance Course Niagara on the Lake Sept 06
Kyphoplasty: Training Session, Toronto Ontario Nov 06

2007

Controversies in Contemporary Spine Surgery Feb 24, 2007 Phoenix Arizona. 3.5 AMA Category 1.
BC Neurosciences Day, Vancouver BC, Mar 2, 2007 6h Level 1
Canadian Neurological Sciences Federation, Edmonton AB Jun 19-22, 2007 20 hrs Level I
Neurological Society of India annual mtg New Delhi Dec 14-19, 20hrs Category 2

2008

BC Neurosciences Day Vancouver BC Mar 7, 2008 6hrs Level 1
CNSF Victoria BC Jun 17-21, 19hrs Level I
CNS Annual Meeting Orlando Sep 2008 INSERT HOURS
NASS Toronto Oct 14-18, 2008 6.75 hrs

2009

Difficult Doctors: Tactics to end power struggles and bad behaviour today. Jul 22, 2009 1CPE credit ID # 107767

UCSF Neurosurgery Update in the Wine Country Jul 30-Aug 1, Silverado Resort napa CA 12.25 AMA PRA Cat 1 Credits.

ML Course Vancouver BC April Section 1 credits. 9.6 hrs??

CFNS Annual Mtg Halifax Jun 2010

2010

Invited Lecturer: Medtronic Calgary Nurses Course, 1st Canadian. Minimally Invasive Spine surgery and Kyphoplasty. 2x30min lectures. Plus Practical sessions.

BC Neurosciences day Friday Mar 19 7.5 hrs

UBC Neuroscience Grand Rounds Mar 17 2010 1hr

AANS Philadelphia May 3, 4 2010; 19.5hrs

CNSF Quebec City Jun 9-11 2010

Nov 23 2010 invited speaker SPH CME: Spinal Decompression

Boston DuPuy MIS Course teaching: MIS Surgery, anatomical considerations. 30 min plus also received Certificate of Training as Faculty

North Shore CME Cement augmentation Nov 28 2010. Invited speaker

Attended Medtronic Motion Sparing Technologies Course Nov 12 2010 Toronto

2011

Jan 14,15 Chair, Kyphoplasty Users Conference, Vancouver BC. Attendees 20 surgeons.

2011 Feb 24 1 day visit with Dr Tony Tannouri, MIS Spine surgeon at Boston University Hospital. Intraop observation. Case presentations. Sponsored by DuPuy Canada.

LGH Rounds Presentation. Neurosurgery for Dummies April 26 2011 1hr (prep time 10h)

LGH Grand Rounds 1hr per rounds for RCPSC

May 5 2011 Toronto NPH Symposium (not eligible for CME)

May 27 2011 CMPA Office Practice Level 1 7hrs

Jun 2011 Vancouver BC Canadian Neurological Sciences Federation Annual Meeting 14.5 hrs

Jul 24-26 2011 Boston NSQIP 21 hrs Level 1

Oct 4-6 Congress of Neurological Surgeons Annual mtg Washington

Oct 18-20/2011 and Nov 18-20/2011: Physician Leadership Course, University of Toronto BMO Center for Learning

Invited Lecturer: UBC Neuroscience Grand Rounds Oct 26, 2011. Improving Neurosurgical Care in BC. 1hr (prep time 10h)

2012

Jan 25 2012 Dept Surgery Grand Rounds: Pt safety and Health Care (O'Connor, Ostrow)

Jan 25 2012 Neurosciences Grand Rounds> Dr D Cochrane. Hydrocephalus 1 hr

Jan 25 2012 Neurosciences : Dr Chris Gilles.

Postgraduate Courses Taken (name of course, where, dates, indicate if certificate received).

Advanced Cardiac Life Support (1988)

Advanced Trauma Life Support (1989)

FLEX Examination, State of Virginia (1993)

Cook County Neurological Surgery Review Course, Chicago (1993)

W. Lougheed Microsurgical Course, University of Toronto (1994)

Post Graduate Masters of Science in Epidemiology and Biostatistics, University of Western Ontario, London, Ontario (1995-2001)

Courses: Epidemiology, Observational Epidemiology, Biostatistics I and II, Clinical Trials, Economic Evaluation of Health Care, Clinical Epidemiology

THESIS: The Effect of Dexamethasone Administration on Morbidity following Subdural Electrode Insertion for Medially Intractable Epilepsy: A randomized double blind placebo controlled trial Defended June 1/2001

UNIVERSITY OF BRITISH COLUMBIA
Publications Record

Date Completed: Dec 2004

Initials:

SURNAME: SAHJPAUL **FIRST NAME:** Ramesh
MIDDLE NAME(S): Lal

1. REFEREED PUBLICATIONS

a) Journals

1. Tervo RC, Shahar E, Nowaczyk MJM, **Sahjpaal RL**, Davies A. Comprehensive Management in a Spina Bifida Clinic: A Community Orientation. Rehab. Res. 1988;(Oct):46-53
2. **Sahjpaal RL**, Ramsay DA, deVeber LL, Del Maestro RF. Brain Metastases from Clear Cell Sarcoma of the Kidney-A Case Report and Review of the Literature. J Neuro-onc 1993;16;221-226
3. Chen R, **Sahjpaal RL**, Del Maestro R, Assis L, Young GB. Initial Enlargement of the Opposite Pupil as a False Localizing Sign in Intraparenchymal Frontal Hemorrhage. J Neurol Neurosurg Psychiatr 1994;57:1126-1128
4. **Sahjpaal RL**, Elisevich K, Allen L. Hodgkin's Disease of the Orbit. Ophthalmic Surgery Lasers 1996;27:239-242
5. **Sahjpaal RL**, Lee DH, Munoz D. Fatal Reaction Following Inadvertent Intrathecal Administration of Ionic Contrast Agent. Acta Neuropathologica 1997, 93:101-103
6. **Sahjpaal RL**, Abdulhak M, Drake CG, Hammond R. Fatal Traumatic Rupture of a Vertebral Berry Aneurysm. J Neurosurg 89:822-824, 1998
7. **Sahjpaal RL**, Inadvertent Intrathecal Application of Ionic Contrast Agent. Letter to editor. Surg Neurol 49(5):574, 1998
8. **Sahjpaal RL**, Lee, DH. Infratentorial Subdural Empyema, Pituitary Abscess, and Septic Cavernous Sinus Thrombophlebitis Secondary to Paranasal Sinusitis: Case Report. Neurosurg 44 (4): 864-868, 1999
9. **Sahjpaal RL**, Girotti M. Intracranial Pressure Monitoring in Severe Traumatic Brain Injury Results of a Canadian Survey. Can J Neurol Sci. 2000; 27:143-147
10. **Sahjpaal RL**. Awake Craniotomy: Controversies, Indications and Techniques in the Surgical Treatment of Temporal Lobe Epilepsy. Can J Neurol Sci. 2000;27: Suppl. 1-S55-S63
11. **Sahjpaal RL**, Lee DH. Fatal reaction to inadvertent intrathecal entry of ionic contrast medium during nephrography. Review Series Urology, 1/99. Helix Communications AB p16-17.
12. Silver B., Gulka I, Nicole M, **Sahjpaal R**, Hachinski V. Idiopathic Free Floating Thrombus of the Common Carotid Artery. Can J Neurol Sci 2002;29:97-99
13. Dexamethasone for Morbidity Following Subdural Electrode Insertion: A Randomized Controlled Trial. **Sahjpaal R**, Wiebe S, Mahon J. Can J Neurol Sci 2003;Nov 30(4): 340-8
14. Pseudogout of the Transverse Atlantal Ligament: An Unusual Case of Cervical Myelopathy. Griesdale D Jr, Boyd M, **Sahjpaal R**. Can J Neurol Sci 2004;May 31(2):273-275
15. Evaluating Atlantoaxial Anatomy and Screw Placement with Three-Dimensional Cone-Beam Computed Tomography. Rabin D, McErlain D, Holdsworth DW, Pelz D, Sahjpaal R, Duggal N. World Spine Journal 2006;1(2):68-73
16. Pondal-Sordo M, Diosy D, Tellez-Zenteno JF, **Sahjpaal R**, Wiebe S. Usefulness of intracranial EEG in the decision process for epilepsy surgery. Epilepsy Res 2007 May;74(2-3):176-82. Epub 2007 Apr 19
17. **Sahjpaal RL**. Esophageal perforation from anterior cervical screw migration. Surg Neurol 2007 Aug;68(2):205-9;discussion 209-10. Epub 2007 Feb 15
18. **Sahjpaal R**. Wrong-sided surgery. J Neurosurg Spine 2008 Jul;9(1):106; letter to editor

b) Conference Proceedings

1. **Sahjpaal RL.** Surgical Techniques for Epilepsy in Children and Adults. In Proceedings of the International Update on Neurosciences and Workshop on Neuro-intervention, Nov 21-23, 1998, New Delhi, India
2. **Sahjpaal RL.** Awake Craniotomy in Temporal Lobe Epilepsy: Current indications, techniques and controversy. In: Indian Neurosciences Update, 1999
3. **Sahjpaal RL.** Local Anesthesia: Indications and Techniques in Temporal Lobe Epilepsy. Canadian Temporal Lobe Epilepsy Workshop, London, ON. Nov 13-15, 1997.

c) Other

1. **Sahjpaal RL,** Lee DH: Fatal reaction to inadvertent intrathecal entry of ionic contrast medium during nephrography. Review Series Urology, 1/99. Helix Communications AB p16-17.
2. **Sahjpaal RL.** Congenital Anomalies of the Craniovertebral Junction, in Hurlbert RJ, Fisher WS, eds. Seminars in Neurosurgery, volume 13, number 2, 2002:111-118
3. Lee T, Foley K, **Sahjpaal R.** Impacted PLIF: Posterior lumbar interbody fusion with machined, pre-sized allograft. Spine Universe June 2000

d) Refereed Publications in Press (include journal and anticipated year of publication)

3. BOOKS

a) Authored

b) Edited

c) Chapters

Clifford Schold S Jr., Cairncross JG, **Sahjpaal RL.** Chemotherapy of Primary Brain Tumors. In: Wilkins RH, Rengachary SS (Eds). Neurosurgery, second ed, McGraw-Hill, 1996, pp 1957-1967

4. PATENTS

5. SPECIAL COPYRIGHTS

6. ARTISTIC WORKS, PERFORMANCES, DESIGNS

- a) Contributing author. The National Library of Poetry, 3rd place award, 1997

7. OTHER WORKS (including abstracts)

8. WORK SUBMITTED (including publisher and date of submission)

9. WORK IN PROGRESS (including the degree of completion)

UNIQUE ACHIEVEMENTS

- 1) Complex Spine Program implementation and development, Lions Gate Hospital 2003-
- 2) Introduction of Minimally Invasive Spine Surgery to LGH. First MIS spine case in BC
- 3) Introduction of Spinal Image Guided Surgery to LGH. First IGS Spine case in BC

- 4) Development of Rapid Access Spine Program at LGH, 2006-
- 5) Member, Provincial Surgical Advisory Committee 2008-2010
- 6) Meeting with Kevin Falcon, Minister of Health re RASC, JRAC and surgical augment
- 7) NSQUIP Surgeon lead LGH/Vancouver Coastal Health Authority Nov 2010 - present

RESIDENT AND MEDICAL STUDENT TEACHING

Residents

Ryan Janicki

Peter Gooderham

Ray Yong

Chris Gillis Jan –Mar 2011

Albert Tu Jul- Oct 2011

Students

Priya Dhawan Nov 2010 2 wks (FMG)

ChrisOct 2011

Sarah Wood?? Oct 10-24 2011

Nikki Rhandawa Oct 24-Nov 7, 2011