

**THE UNIVERSITY OF BRITISH COLUMBIA**

*Curriculum Vitae for WILLIAM NEIL MCDONALD*

**Revision Date: November 3, 2015**

**NAME:** McDonald, William Neil

**DEPARTMENT:** Anaesthesiology and Clinical Pharmacology

**FACULTY:** Medicine

**PRESENT RANK:** Clinical Professor (Jan 2007)

**POST-SECONDARY EDUCATION**

UBC BSc. (Hons. Physiology)	1972
UBC MD	1975

**SPECIALIST QUALIFICATIONS**

UBC	FRCPC (Anaesthesiology)	1982
UBC	FRCPC (Internal Medicine)	1989

**EMPLOYMENT RECORD**

Family Medicine, Williams Lake, BC, Private Practice	1976-78
Staff Anesthesiologist, Dept of Anaesthesia, Vancouver General Hospital	1982-88
Assistant Director, ICU, Vancouver General Hospital	1985-88
Active Staff, Department of Anesthesiology, St. Paul's Hospital	1990
Active Staff, Department of Internal Medicine, St. Paul's Hospital	1990
Division Head, Acute and Interventional Pain Management, SPH	1993
Retired from Clinical Practice	2015

**UBC APPOINTMENTS and PROMOTIONS**

Clinical Instructor, Dept. of Anesthesiology	1983
Clinical Assistant Professor, Dept. of Anesthesiology	1991
Clinical Associate Professor, Dept. of Anesthesiology	2003
Clinical Professor, Dept. of Anesthesiology	2007

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### EDUCATIONAL LEAVES OF ABSENCE

I.C.U. Fellow, St. Paul's Hospital, Vancouver 1984-85  
Internal Medicine Residency (FRCPC) 1988-89

### AREAS OF SPECIAL INTEREST and ACCOMPLISHMENT

Intensive Care - Assistant ICU Director VGH 1985 -88

Resident Teaching - Surgery, Medicine and Anesthesiology Residents  
Bedside and formal rounds. Teach from perspective of Anesthesiology  
and Internal Medicine.

Acute Pain Management - Initiated (1990) first Acute Pain Service in Western Canada,  
St. Paul's Hospital

Chronic Pain Management – Established (1992) St. Paul's Hospital Nerve Block Clinic  
Expertise in Chronic Pain, especially Complex Regional Pain Syndrome  
(Reflex Sympathetic Dystrophy) and Neuromodulation of pain

Neuromodulation – Established (2000) BC Centre for Neuromodulation, St. Paul's Hospital,

Palliative Care – Established (2003) Interventional Service for Palliative Care, SPH,

CME – Established (2005) and continue to organize Interprovincial Pain Rounds  
(educational video link between pain clinics in BC). Organized several  
pain conferences, including national meeting. Invited speaker for CME.

Philanthropy – Founded (2010) and currently Chairman of the Northwest Pain Foundation,  
a not-for-profit foundation to aid patients, foster research, and promote teaching  
related to pain management

### COURSES TAUGHT at UBC

#### **Other Faculties**

-Lectures to Postgraduate Nursing Students (Nursing 410) 1998 - 2003  
Diagnostic and Therapeutic Aspects of Injection Techniques  
-Lectures to UBC Pharmacology Graduate Students (Pharmacology 513) 2004 - 05  
Post-Operative Pain Management

#### **Undergraduate Teaching**

-Supervision of 3rd and 4<sup>th</sup> year medical students on clinical rotations ongoing  
-Organization and teaching Pain Management block for  
4<sup>th</sup> year UBC medical students 2008 - 2013

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### **Postgraduate Teaching**

- Regular monthly Anesthesia Resident rotations in Pain Management ongoing
- Lectures to Residents in UBC Plastic Surgery, Orthopedic Surgery, Physical Medicine and Rheumatology Programs relating to pain
- Yearly seminar with Palliative Care Fellows on Interventional Pain Treatments ongoing
- Yearly organization and participation in UBC Anesthesiology Resident Academic Days

### **Graduate Students Supervised**

- Supervision - Pain Fellows (3) 2007 - 2010

### **CME Activities**

- Supervision of General Practitioners visiting SPH from rural communities to study current pain management techniques (2 -4 week rotations) ongoing
- Coordinator BC Interprovincial Chronic Pain Video Conference Program ongoing
- St. Paul's Hospital Pain Clinic Day courses for General Practitioners 2005 -2013
- Course co-coordinator INS Meeting Montreal June 2015

### **Invited Presentations**

- BC Washington Anesthesiology Soc. Meeting, Thoracic Anaesthesia Dec 1982
- BC Washington Anesthesiology Soc. Meeting, Anaesthesia for Obesity Dec 1983
- Anaesthesia Highlights Meeting (UBC), Mechanical Ventilation Apr 1985
- Anaesthesia Highlights Meeting (UBC), Unusual Cases of Respiratory Failure Apr 1988
- P.O.R.T. Symposium, Intensive Care of the Transplant Donor Nov 1988
- Depew Memorial Lecture, Campbell River,  
#1 PCA  
#2 Alternate Forms of Acute Pain Control Sep 1990
- Surgical Grand Rounds, St. Paul's Hospital, Patient Controlled Analgesia Nov 1990
- BC Surgical Meeting, Workshop on Acute Pain Control Dec 1990
- Medical Grand Rounds, Lion's Gate Hospital, Acute Pain Management Feb 1991
- Anaesthesia Highlights Meeting (UBC), Patient Controlled Analgesia Apr 1992
- Okanagan Anaesthesia Conference, April, Patient Controlled Analgesia and other forms of Post-operative Pain Control June 1992
- Royal College Meeting, September, Ottawa, - PCA Oct 1992

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UBC Department of Rehabilitation Medicine Grand Rounds Reflex Sympathetic Dystrophy	Sept 1992
City-wide Anesthesia Grand Rounds, Acute Pain Management	Oct 1992
Department of Surgery Grand Rounds, St. Paul's Hospital Optimal Post Operative Pain Management	Apr 1993
Albania Health Project Surgical Seminar, Tirana Albania Lecture #1, Pain Management - Opioids Lecture #2, Regional Blocks in the Trauma Patient Workshops on Current Anesthesia Practice	Mar 1993
St. Paul's Hospital Anesthesia Grand Rounds. CRPS	Nov 1995
BC Physiotherapist's Association, - Diagnostic Nerve Blocks	Mar 1996
City wide General Surgery Rounds (UBC Hospital), - Pain Tips for Surgeons.	Oct 1996
BC Society of Hand Physiotherapists. - Complex Regional Pain Syndrome.	Nov 1997
Demonstrator - Anatomy of Chronic Nerve Block Procedures. UBC Residency Program	Oct 1998
UBC Family Practice Residents. -Pain Management	Nov 1998
UBC Family Practice Conference Controversies in Anesthesia. Epidural Steroids Opioids for Chronic Benign Pain	Feb 1999
UBC Orthopedic Surgery Residents. Complex Regional Pain Syndrome	May 1999
UBC Family Practice Residents. The Anesthesiologist Outside of the Operating Room	Jan 2000
BC Orthopedic Surgery Society. -Pain Management in Orthopedics	May 2000
WCB Review Panel, Chronic Pain Refresher Course	June 2000
Demonstrator - Anatomy of Chronic Nerve Block Procedures. Canadian Anesthetists Society Meeting.	Sep 2000
Demonstrator - Anatomy of Chronic Nerve Block Procedures. UBC Residency Program	Oct 2000
UBC Anesthesia Residents. Assessment and Treatment of Chronic Pain	Sep 2001

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UBC Plastic Surgery Residents. Complex Regional Pain Syndrome.	Oct. 2001
UBC Anesthesia Residents. Complex Regional Pain Syndrome.	Oct 2001
UBC Rheumatology Residents. Complex Regional Pain Syndrome	May 2001
Rheumatology Workshop for Family Physicians - Chronic Pain Management,	Feb. 2001
St. Paul's Hospital Pharmacy Rounds. Spinal infusions.	Apr 2002
UBC Orthopedic Surgery Residents, Complex Regional Pain Syndrome	2001 -2003
General Surgery Rounds, St. Paul's Hospital, Complex Regional Pain Syndrome	Jan 2003
Advanced Learning in Palliative Care Conference, Victoria, BC, Intraspinal Therapy in Palliative Care	Apr 2006
Neuromodulation Workshop, St. Paul's Hospital, Our First 100 Patients	Apr 2006
Lecture to UBC Rheumatology Residents, Complex Regional Pain Syndrome	Apr 2006
St. Paul's Hospital Anesthesia Grand Rounds, Neuromodulation. What is it?	Oct 2006
Province Wide Chronic Pain Video Conference, Neuromodulation. What is it?	Oct 2006
Royal Columbian Hospital Cardiology Journal Club Spinal Cord Stimulation for Refractory Angina Pectoris	Apr 2007
SPH Pain Centre – Clinical Morning with Dr. N Svorkdal	Apr 2007
UBC Neurosciences Rounds, The Role of Neural Blockade in Neuropathic Pain	June 2009
SPH Anesthesiology Grand Rounds – Neuromodulation – What Is It?	Nov 2010
Canadian Physiotherapists Society – Medical Management of CRPS	Apr 2011
SPH Anesthesiology Grand Rounds – Intrathecal Drug Delivery in Palliative Care	Oct 2012
CNS National Meeting (Victoria) – Complications of Intrathecal Drug Delivery	June 2013
CNS National Meeting (Victoria) – Workshop on Troubleshooting in ITDD	June 2013
CSPCP Advanced Learning Conf. – Neuromodulation in Palliative Care	June 2013

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CNS National Meeting (Halifax) – ITDD in Palliative Care – The BC Experience

Sep 2014

## SERVICE

### **Hospital Committees:**

St. Paul's Hospital Pharmacy and Therapeutics Pain Sub-Committee,	1990-2002
St. Paul's Hospital Chronic Pain Program, Leadership Committee	1995-present
Head, Division of Acute and Interventional Pain Management, SPH	1993 - 2015
Outpatient Building Planning Committee	2013 - 2014
Restructuring SPH Pain Program Leadership Committee	2014 - 2015

### **Community Service:**

Northwest Pain Foundation	Founder and Board Chairman
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### **Memberships on scholarly societies, including office held and dates**

North American Neuromodulation Society	Founding Member Board of Directors Treasurer (2014)
Canadian Neuromodulation Society	

### **Memberships in other societies**

British Columbia Medical Association (Doctors of BC)  
Canadian Anaesthetists' Society  
Canadian Medical Association  
Northwest Pain Foundation - Chairman

## CONSULTANCIES:

Visiting Specialist's Clinic of the Worker's Compensation Board of British Columbia  
Coastal Health Regional Pain Strategy Committee

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### AWARDS AND DISTINCTIONS

Edgar Black Memorial Prize, Honours Physiology	1972
Lange Book Prize	1975
UBC Department of Anaesthesia Residents Competition, 2nd prize	1980
UBC Department of Anaesthesia Residents Competition, 1st prize	1982
BC Heart Association Clinical Fellowship	1984-85
UBC Department of Internal Medicine Residents Competition, 1st prize (Original research category)	1989
First Prize for Original Research presentation - CNS Meeting (Vancouver)	2010
Providence Health Care Mission Award (“recognizing an individual who in an exceptional manner demonstrates the mission and values of Providence Health Care”)	2012

### ORIGINAL RESEARCH :

#### **Referred Publications:**

1. McDonald WN, Doll WA, Schmidt N, Reynolds C. “Intravenous Nitroglycerine for Control of Blood Pressure during resection of Pheochromocytoma”, *Can. J. Anesth*, 29:2:108, March 1982.
2. Jamieson CHM, McDonald WN, Levy JG. “Preferential Uptake of Benzoporphyrone Derivative by Leukemic versus Normal Cells”, *Leukemia Research*, 14:3:209, March 1990.
3. McDonald WN, Onrot J. “Hypertension in the Surgical Patient”, *Medicine North America*, 4th series: 846, May 1990.
4. Oberlander TF, Robeson P, Ward V, Huckin RS, Kamani A, Harpur A, and McDonald WN. “Prenatal and Breast Milk Morphine Exposure following Maternal Intrathecal Treatment”, *Human Lactation*, 16:2: 137, May 2000.
5. McDonald WN. Book Review (Image Guided Pain Management. Ed. Thomas, PS. Lippincott). In *Can J. Anesth*. 1999.
6. Schwarz SKW, Wong CL, McDonald WN: Spontaneous recovery from a spinal epidural hematoma with atypical presentation in a nonagenarian. *Canadian Anesthesiologist Journal*. 2006.
7. Fedoroff, IC, Blackwell, E. Malysh, L. McDonald, WN, Boyd, M. Spinal Cord Stimulation in Pregnancy: A Literature Review. *Neuromodulation*. (get ref)
8. Hawley, P., Beddard-Huber, E., Grose, C., McDonald, W., Lobb, D. and Malysh, L. Intrathecal infusions for intractable cancer pain: A qualitative study on the impact on a case series of patients and caregivers. *Pain Research and Management*, 14 (5), 2009, 371-379.

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### Poster Presentations

1. A comparison of the efficacy of spinal cord stimulation versus conventional care for treatment of chronic pain better off Schick McDonald on Boyd Canadian pain society and Americans pain society 2004
- 2.. Fedoroff, IC, Shick, R., Ong, M., McDonald, W. A prospective study evaluating the efficacy of implantation therapies for chronic pain in reducing pain levels and improving quality of life. Presented at the Annual Conference of the American Pain Society, Baltimore, Maryland; 2002.
3. Osborn JA, Schwarz SKW, Shick R, McDonald WN: Sodium Amobarbital in the Treatment of Complex Regional Pain Syndrome. 4th Congress of the European Federation of ISAP Chapters (EFIC) - Pain in Europe IV; Prague, Czech Republic; September 2-6, 2003.
4. Fedoroff, IC, Malysh, L, Shick, R,M. Ong, M, McDonald, WN & Boyd, M. A Comparison of a Multidisciplinary Education Component to Standard Preparation and Follow-up for Patients Receiving a Spinal Cord Stimulator. Presented at the 7<sup>th</sup> Meeting of the International Neuromodulation Society. Rome, Italy 2005.
5. Osborn JA, McDonald WN. Intravenous Lidocaine in the Treatment of CRPS-Case Presentation. Canadian Anesthesiologists' Society Meeting, Vancouver, 2005.
6. Fedoroff, IC, McDonald, WN, and Boyd, M. A prospective study comparing an enhanced education component to standard preparation and follow up for patients receiving a spinal cord stimulator. Presented at the World Congress for Pain. 2005
7. McDonald, WN, Malysh, ML, Fedoroff, IC, and Ling, H. Spinal Cord Stimulation for Chronic Refractory Angina Pectoris. Presented at the Canadian Cardiology Conference, Vancouver, 2006
8. Fedoroff, IC, McDonald, W., Malysh, ML, Shick, R., Hunt, D., Ling, H. Spinal cord stimulation for refractory angina pectoris: Less pain and lots to gain. Presented at the International Neuromodulation Society meeting. Acapulco, Mexico (2007)
9. Fedoroff, IC, McDonald, W., Ong, M., Malysh, M. L., Shick, R. Hunt, D. Boyd, M. The role of catastrophization in outcome for SCS for neuropathic pain. Presented at the North American Neuromodulation Society. Las Vegas, Nevada (2008)
10. Fedoroff, IC, McDonald, W., Ong, M., Malysh, ML, Shick, R., Hunt, D., Boyd, M. The efficacy of SCS for CRPS patients in comparison to other neuropathic pains. Presented at the World Congress for Pain. Glasgow Scotland (2008)
11. Fedoroff, IC, Cleary, C., Ong, M., McDonald, W., Malysh, L., Boyd, M.. The effect of spinal cord stimulation on pain, medication use, and function in patients with chronic pain. Presented at the Canadian Pain Society, Calgary, Alberta (2010)

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12. Fedoroff, IC, Cleary, C., Ong, M., McDonald, W. Opioid Use Following Spinal Cord Stimulator Implantation. Presentation at the North American Neuromodulation Society. Las Vegas, Nevada (2009)

13. Efficacy of spinal cord stimulation for chronic regional pain syndrome in comparison to other neuropathic pain conditions. Fedoroff, IC McDonald, WN, Malish, L, Schick, R, Hunt, D, and Boyd, MC. international Association for the Study of Pain 2008.

14. Evaluation of treatment outcomes in chronic pain patients following spinal cord stimulation therapy. Fedoroff, IC, Blackwell, E, McDonald, WN, Malish, L, and Boyd, MC. NANS 2011.

15. Spinal cord stimulation in pregnancy: a case presentation and literature review. Fedoroff, IC, Blackwell, E, Malish, L, Boyd, MC, and McDonald, WN. CNS 2011.

## **WORK SUBMITTED**

1. McDonald, WN, Malysch, ML, Fedoroff, I, and Ling, H. Spinal Cord Stimulation for Chronic Refractory Angina Pectoris – A Pilot Project.