

CURRICULUM VITAE

S. SAMUEL BEDERMAN, MD PhD FRCSC

Assistant Clinical Professor

Department of Orthopaedic Surgery, University of California, Irvine

101 The City Drive South, Pavilion III, Orange, CA 92868

Academic Office 714 456-5759 Fax 714 456-7547 Email: sbederma@uci.edu**EDUCATION****University and Degrees**

University of Western Ontario London, ON	Bachelor of Science Mathematics/Statistics	1991 – 1994
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University of Toronto Toronto, ON	Master of Science Biostatistics	1995 – 1997
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University of Toronto Toronto, ON	Doctor of Medicine	1997 – 2001
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University of Toronto Toronto, ON	Doctor of Philosophy Health Services Research	2006 – 2010
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Postgraduate Medical Training - Residency

University of Toronto Toronto, ON	Residency Orthopaedic Surgery	2001 – 2006
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Postgraduate Medical Training – Clinical Fellowships

Royal Adelaide Hospital Adelaide, Australia	AO Spine Fellowship	2006
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University of California, San Francisco San Francisco, CA	Spinal Fellowship	2008 – 2009
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Postgraduate Medical Training – Research Fellowships

Clinician Investigator Program Royal College of Physicians & Surgeons of Canada		2006 – 2009
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Surgeon-Scientist Program Division of Orthopaedic Surgery, University of Toronto, Toronto, ON		2006 – 2009
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Institute for Clinical Evaluative Sciences, Toronto, ON		2007 – 2009
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Child Health Evaluative Sciences The Hospital for Sick Children Research Institute, Toronto, ON		2006 – 2009
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Clinical Research Training Fellowship Orthopaedic Research and Education Foundation /American Academy of Orthopaedic Surgeons		2006 – 2008
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ACADEMIC APPOINTMENTS

University of California at San Francisco
 Department of Orthopaedic Surgery
 Visiting Assistant Professor

2008-2010

University of California at Irvine
 Department of Orthopaedic Surgery
 Assistant Clinical Professor

2010 – present

HOSPITAL APPOINTMENTS

Orthopaedic Surgeon, Trillium Health Centre, Mississauga, ON

2006 – 2008

Visiting Assistant Professor, Department of Orthopaedic Surgery
 University of California, San Francisco, CA

2008– 2010

Chief, Orthopaedic Spine Surgery
 Santa Clara Valley Medical Center, San Jose, CA

2010

Attending Surgeon, Department of Orthopaedic Surgery
 University of California at Irvine, Orange, CA

2010 – Present

HONOURS AND AWARDS

Best Paper Award, North American Spine Society Meeting, Dallas TX 2012
 Educational Scholarship, Spine Technology and Educational Group Organization 2012
 Young Investigator AAOS/ORS Comparative Effectiveness Research Symposium 2011
 Deborah Scarlett Award for Outstanding Paper, Canadian Spine Society 2009
 Peterborough K.M. Hunter Graduate Studentship, University of Toronto 2008–2009
 Ontario Graduate Scholarship (declined), University of Toronto 2006
 OREF/AAOS Clinical Research Training Fellowship 2006–2008
 AstraZeneca Resident Research Award for Best Paper 2005
 Kennedy Day Visiting Orthopaedic Professorship, University of Toronto
 Resident Leader, AOA-OREF-Zimmer Resident Leadership Forum 2005
 A.W. Harrison Award for Excellence in Teaching 2004
 Sunnybrook Health Sciences Centre, University of Toronto
 First Place Winner, Community Health Research Day, University of Toronto 1998
 Institute of Medical Science Summer Scholarship, University of Toronto 1997
 Ontario Graduate Scholarship, University of Toronto 1996-1997
 Open Master's Fellowship, University of Toronto 1995-1996
 Earl Arscott Memorial Scholarship. University of Western Ontario. 1993
 University of Western Ontario In-Course Scholarship 1993

RESEARCH FUNDING – PEER REVIEWED

Principal Investigator \$15,000 2005-2006

Orthopaedic & Arthritic Institute Musculoskeletal Research Program.

Bederman SS, Kreder HJ, Yee AJM, Finkelstein JA, Weller I

How does health care delivery impact outcomes for lumbar spinal surgery?

Clinical Research Training Fellowship \$140,000 2006-2008

Orthopaedic Research and Education Foundation/American Academy of Orthopaedic Surgeons

Co-Applicant \$74,988.58 2007-2009

Ontario Neurotrauma Foundation/Ontario Ministry of Health and Long-Term Care.

Wright JG, **Bederman SS**, Coyte PC, Kreder HJ, Mahomed NN, McIsaac WJ

Variation in patient and physician attitudes towards lumbar spinal stenosis and their influence on regional surgical rates.

Principal Investigator 2011

Clinical and Translational Science Institute (NIH), University of California at Irvine

University of California Surgical Spine Collaborative – Team Building Conference

PUBLICATIONS

Peer-Reviewed Full Length Manuscripts

1. **Bederman SS**, Betsy M, Winiarsky R, Sharrock NE, Sculco TP: Postoperative ileus in the lower extremity arthroplasty patient. *Journal of Arthroplasty* 2001; 16(8): 1066-70.
2. **Bederman SS**, Anastakis DJ: Giant arteriovenous fistula of the upper extremity following a distal radius fracture: a rare complication following a common problem. *Journal of Trauma, Infection, and Critical Care* 2007; 63(2): E30-3.
3. **Bederman SS**, Kreder HJ, Weller I, Finkelstein JA, Ford MH, Yee AJM: The who, what, and when of surgery for the degenerative lumbar spine. A population-based study of surgeon factors, surgical procedures, recent trends and reoperation rates. *Canadian Journal of Surgery* 2009; 52(4):283-90.
4. **Bederman SS**, Bhandari M, McKee MD, Schemitsch EH: Do corticosteroids reduce the risk of fat embolism syndrome in patients with multiple long-bone fractures?: A meta-analysis. *Canadian Journal of Surgery* 2009; 52(5): 386-93.
5. **Bederman SS**, Mahomed NN, Kreder HJ, McIsaac WJ, Coyte PC, Wright JG. In the eye of the beholder: Preferences of patients, family physicians, and surgeons for lumbar spinal surgery. *Spine (Phila Pa 1976)*. 2010 Jan 1;35(1):108-15.
6. Omoto DM, **Bederman SS**, Yee AJ, Kreder HJ, Finkelstein JA. How do validated measures of functional outcome compare with commonly used outcomes in administrative database research for lumbar spinal surgery? *European Spine Journal* 2010; 19(8):1369-77.
7. **Bederman SS**, Chundamala J, Wright JG. Randomized clinical trials in orthopaedic surgery. The problems with quantity and quality. *Journal of the American Academy of Orthopaedic Surgeons* 2010; 18(8):454-63.
8. **Bederman SS**, McIsaac WJ, Coyte PC, Kreder HJ, Mahomed NN, Wright JG: Referral practices for spinal surgery are poorly predicted by clinical guidelines and opinions of primary care physicians. *Medical Care* 2010; 48(9):852-858.
9. **Bederman SS**. Predicting prognosis in sick-listed low back pain patients: sneaking a peak inside the black box. *The Spine Journal* 2010; 10(8): 728-30.
10. **Bederman SS**, Coyte PC, Kreder HJ, Mahomed NN, McIsaac WJ, Wright JG. Who's in the driver's seat? The influence of patient and physician enthusiasm on regional variation in degenerative lumbar spinal surgery: a population-based study. *Spine (Phila Pa 1976)*. 2011 Mar 15;36(6):481-489.
11. **Bederman SS**, Murnaghan O, Malempati H, Lansang E, Wilkinson M, Johnston E, Bronstein Y, Finkelstein JA, Yee AJM. In-hospital mortality and surgical utilization in severely polytraumatized patients with and without spinal injury. *Journal of Trauma, Injury, Infection and Critical Care* 2011; 71(4):E71-8.
12. **Bederman SS**. Towards a unified model for investigating health service use in degenerative spinal disorders. *The Spine Journal* 2011; 11(7): 610-2.

13. **Bederman SS**, Rosen CD, Bhatia NN, Kiester PD, Gupta R. Drivers of surgery for the Degenerative Hip, Knee, and Spine: A Systematic Review. *Clinical Orthopaedics and Related Research* 2012; 470(4):1090-105.
14. **Bederman SS**. The Degenerative Lumbar Spine: A Chronic Condition In Search of a Definitive Solution. *The Spine Journal* 2012; 12(2): 98-100.
15. **Bederman SS**, Wright JG. Randomized Trials in Surgery: How Far Have We Come? *Supplement in "Randomized Trials in Orthopaedic Surgery: Advances and Future Directions."* *Journal of Bone and Joint Surgery – Am Vol* 2012; 94(Suppl 1(E)): 2-6.
16. Ames CP, Smith JS, Scheer JK, Bess S, **Bederman SS**, Deviren V, Lafage V, Schwab F, Shaffrey CI. Impact of Spino-Pelvic Alignment on Decision Making in Adult Deformity Surgery. *J Neurosurg Spine*. 2012 Jun;16(6):547-64
17. You JJ, **Bederman SS**, Symons S, Bell CM, Yun L, Laupacis A, Rampersaud YR. Patterns of care after magnetic resonance imaging of the spine in primary care. *Spine (Phila Pa 1976)*. 2013 Jan 1;38(1):51-59.
18. **Bederman SS**, Le VH, Pahlavan S, Kiester PD, Bhatia NN, Deviren V. Use of Lateral Access in the Treatment of the Revision Spine Patient. *The Scientific World Journal*, vol. 2012, Article ID 308209, 6 pages, 2012.
19. **Bederman SS**. Commentary: Patient Satisfaction in Spinal Surgery: Should We Be Addressing Customer Service or Health Improvement? *The Spine Journal* 2013; 13(5):507-9.
20. **Bederman SS**, Hassan JM, Shah KN, Kiester PD, Bhatia NN, Zamorano DP. Fixation Techniques For Complex Traumatic Transverse Sacral Fractures: A Systematic Review. *Spine (Phila Pa 1976)*. 2013 Jul 15;38(16):E1028-40.
21. **Bederman SS**, Hahn P, Colin V, Kiester PD, Bhatia NN. Robotic Guidance for S2-Alar-Iliac Screws in Spinal Deformity Correction. *Journal of Spinal Disorders and Techniques* 2013 Jul 26. [Epub ahead of print]
22. **Bederman SS**, Shah K, Hassan J, Hoang B, Kiester PD, Bhatia NN: Surgical techniques for spinopelvic reconstruction following total sacrectomy: a systematic review. *European Spine Journal*. 2014 Feb; 23(2):305-19.

MANUSCRIPTS IN SUBMISSION

1. Wedemeyer M, **Bederman SS**, Steward O: Stem Cells and Management of Healthcare Costs: Stem Cell-Based Treatments and the Societal Balance Sheet. *The Lancet* (submitted).
2. **Bederman SS**, Lopez G, Ji T, Hoang B: Robotic Guidance for En Bloc Sacrectomy: A Case Report. *Spine* (under revision).
3. Daly MC, Patel MS, Bhatia NN, **Bederman SS**: The Influence of Insurance Status on the Surgical Treatment of Acute Spinal Fractures. *Journal of Orthopaedic Trauma* (submitted).
4. **Bederman SS**, Pahlavan S, Le VH: An Approach to the Adult Revision Spine Patient. *Journal of the American Academy of Orthopaedic Surgeons* (submitted).
5. **Bederman SS**, Pahlavan S, Berven SH. Variation in Costs of Spinal Implants in US Academic Medical Centers. *Spine* (submitted).

BOOK CHAPTERS

1. **Bederman SS**, Rampersaud YR: "Do Bone Morphogenetic Proteins Improve Spinal Fusion?" in *Evidence-Based Orthopaedics – The Best Answers to Clinical Questions*, Wright JG. Philadelphia, PA: Saunders/Elsevier; 2009.
2. Rampersaud YR, **Bederman SS**: "C2 Traumatic Spondylolisthesis (Hangman's Fracture) and Other Variants." in *Spine and Spinal Cord Trauma: Evidence-Based Management*, Vaccaro AR, Fehlings MG, Dvorak MF. New York: Thieme; 2010.
3. **Bederman SS**, Gibson A: "Heterogeneity" in *Advanced Concepts in Surgical Research*,

- Bhandari M, Robioneck B. Stuttgart, Germany: Thieme; 2012.
4. **Bederman SS**, Le VH. “Surgical Management of Low Back Pain and Degenerative Spinal Disorders” in *Low Back Pain 2 / Book 1*, Sakai Y. (ISBN 979-953-307-272-1).Croatia: InTech Publishing. <http://www.intechopen.com/articles/show/title/surgical-management-of-low-back-pain-and-degenerative-spinal-disorders>
 5. **Bederman SS**, Ames CP, Deviren V: “Sagittal Osteotomy for En Bloc Resection of Lateralized Tumors” in *Spine and Spinal Cord Tumors: Advanced Management and Operative Techniques*, Ames CP, Boriani S, Jandial R. St. Louis, MO: Quality Medical Publishing, 2013.
 6. **Bederman SS**, Le VH. “Surgical Management of Cervical Spine Injuries” in *Spinal Cord and Nerve Injury*, Haruhito A. (ISBN 979-953-307-272-1). Cheyenne, WY: Academy Publish. (in press).
 7. **Bederman SS**, Le VH, Bhatia NN. “Complications of Instrumentation in Cervical Spondyloarthropathy” in *Spinal Instrumentation (2nd ed.)*, Kim D, Vaccaro A, Fessler R, and Radcliff K. New York: Thieme. (in press).

THESIS PUBLICATION

1. **Bederman SS**: Estimation methods in random coefficient regression for continuous and binary longitudinal data (Master’s Thesis). National Library of Canada: Ottawa 1997. <http://hdl.handle.net/1807/11671>
2. **Bederman SS**: Patient preferences, referral practices, and surgeon enthusiasm for degenerative lumbar spinal surgery (PhD Thesis). National Library of Canada: Ottawa 2010. <http://hdl.handle.net/1807/24337>

SCIENTIFIC PRESENTATIONS (International and National Meetings)

1. **Bederman SS**, Waddell JP, Mahomed N, Davey JR, Davis AM, Gross AE, Dabby D, Kreder HJ, Schemitsch EH: Functional outcome following periprosthetic fractures around total hip arthroplasty. Canadian Orthopaedic Association, Edmonton, AB, 2000.
2. **Bederman SS**, Waddell JP, Mahomed N, Davey JR, Davis AM, Gross AE, Dabby D, Kreder HJ, Schemitsch EH: Functional outcome following periprosthetic fractures around total hip arthroplasty. International Society for Fracture Repair, Hong Kong, China, 2000.
3. **Bederman SS**, Anastakis DJ: Giant arteriovenous fistula of the upper extremity following a distal radius fracture: a rare complication following a common problem. Canadian Society of Plastic and Reconstructive Surgeons, Annual MANUS Meeting, Hamilton, ON, 2004.
4. **Bederman SS**, Kreder HJ, Weller I, Finkelstein JA, Ford M, Yee AJ: Trends in lumbar spinal fusion and surgeon factors in spinal surgery. Canadian Spine Society, Lake Louise, AB, 2006.
5. **Bederman SS**, Kreder HJ, Weller I, Finkelstein JA, Ford M, Yee AJ: Trends in lumbar spinal fusion and surgeon factors in spinal surgery. Spine Across the Sea (North American Spine Society, Japanese Spine Research Society), Maui, Hawaii, 2006.
6. **Bederman SS**, Bhandari M, McKee MD, Schemitsch EH: Do corticosteroids reduce the risk of fat embolism syndrome in multi-trauma patients?: a meta-analysis. Canadian Orthopaedic Association, Halifax, NS, 2007.
7. **Bederman SS**, Kreder H, Weller I, Finkelstein J, Ford M, Yee A: Trends in lumbar spinal fusion & surgeon factors in spinal surgery. Canadian Orthopaedic Association, Halifax, NS, 2007.
8. **Bederman SS**, Bhandari M, McKee MD, Schemitsch EH: Do corticosteroids reduce the risk of fat embolism syndrome in multi-trauma patients?: a meta-analysis. (American College of Surgeons, Committee on Trauma Resident Paper Competition) Canadian Surgical Forum, Canadian Association of General Surgeons, Toronto, ON, 2007.

9. **Bederman SS**, Mahomed NN, Kreder HJ, McIsaac WJ, Coyte PC, Wright JG: Understanding patient and physician preferences for surgery on the degenerative lumbar spine. Canadian Spine Society, Gatineau, QC, 2009. [Received Deborah Scarlett Award for Outstanding Paper]
10. **Bederman SS**, Mahomed NN, Kreder HJ, McIsaac WJ, Coyte PC, Wright JG: Understanding patient and physician preferences for surgery on the degenerative lumbar spine. Global Spine Congress, San Francisco, CA, 2009.
11. **Bederman SS**, Mahomed NN, Kreder HJ, McIsaac WJ, Coyte PC, Wright JG: Understanding patient and physician preferences for surgery on the degenerative lumbar spine. Canadian Orthopaedic Association, Whistler BC, 2009.
12. **Bederman SS**, Mahomed NN, Kreder HJ, McIsaac WJ, Coyte PC, Wright JG: Understanding patient and physician preferences for surgery on the degenerative lumbar spine (Focused Paper). North American Spine Society, San Francisco, CA, 2009.
13. You JJ, Symons S, **Bederman SS**, Rampersaud YR: Healthcare utilization following primary care physician ordered MRI of the lumbar spine. Canadian Spine Society, Lake Louise, AB, 2010.
14. **Bederman SS**: Two-level XLIF Corpectomy: a report of two cases. Society of Lateral Access Surgeons, Del Mar, CA, 2011.
15. Berven S, **Bederman SS**, Deyo R, Carragee E, Takemoto S, O'Sullivan M, Lang L: Regional variation in rates of elective spine surgery in California: A report on effective patient care. North American Spine Society, Chicago, IL, 2011.
16. **Bederman SS**: A glimpse into the variation in costs of spinal implants. Spine Technology and Educational Group Org. Symposium, "State of Spine Surgery: A Think Tank", San Diego, CA 2012.
17. Daly MC, **Bederman SS**: The influence of insurance status on the surgical treatment of acute spinal fractures. Orthopaedic Trauma Association, Minneapolis, MN, 2012.
18. Daly MC, **Bederman SS**: The influence of insurance status on the surgical treatment of acute spinal fractures. American College of Surgeons Clinical Congress, Chicago, IL, 2012.
19. Daly MC, **Bederman SS**: The influence of insurance status on the surgical treatment of acute spinal fractures. North American Spine Society, Dallas, TX, 2012 (Best paper).
20. Daly MC, **Bederman SS**: The influence of insurance status on the surgical treatment of acute spinal fractures. Cervical Spine Research Society, Chicago, IL 2012.
21. Pahlavan S, **Bederman SS**: Variations in costs of spinal implants. American Academy of Orthopaedic Surgeons, Chicago, IL 2013.
21. Daly MC, **Bederman SS**: The influence of insurance status on the surgical treatment of acute spinal fractures. American Academy of Orthopaedic Surgeons, Chicago, IL 2013.
22. Daly MC, **Bederman SS**: The influence of insurance status on the surgical treatment of acute spinal fractures. Global Spine Congress, Hong Kong 2013.
23. **Bederman SS**, Shah K, Hassan J, Hoang B, Kiester PD, Bhatia NN: Surgical techniques for spinopelvic reconstruction following total sacrectomy: a systematic review. Global Spine Congress, Hong Kong 2013.
24. Le VH, Jain N, Heckmann ND, Wang LC, **Bederman SS**, Turner AW, Lee TQ: Biomechanical Evaluation of Supplemental Percutaneous Lumbo-Sacroiliac Screws Following Total Sacrectomy. American Academy of Orthopaedic Surgeons, New Orleans, LA 2014.
25. Devito DP, Hedge SK, Lieberman IH, **Bederman SS**, Woo R: Retrospective, 5-Center Analysis of 3,270 Pedicle Screws Placed with Robotic-Guidance in Adolescent Idiopathic Scoliosis (AIS). International Meeting on Advanced Spine Techniques, Valencia, Spain 2014.

26. **Bederman SS**, Kiester PD, Bhatia NN, Jain NS, Woolwine SJ: Accuracy of Pedicle Screw placement in Revision Spine Surgery using Robotic Guidance. North American Spine Society, San Francisco, CA 2014.

POSTER PRESENTATIONS

1. **Bederman SS**, Corey PN: Estimation methods in random coefficient regression for continuous and binary longitudinal data. Community Health Research Day, University of Toronto, 1998
2. **Bederman SS**, Corey PN: Estimation methods in random coefficient regression for continuous and binary longitudinal data. Canadian Association of Teachers of Community Health in conjunction with the Canadian Public Health Association, Montreal, QC, 1998
3. **Bederman SS**, Schemitsch EH, Richards RR, Waddell JP: Prediction of revision to total hip arthroplasty based on the St. Michael's hip scoring system. Institute of Medical Science Undergraduate Research Program, University of Toronto, 1998
4. Schemitsch EH, **Bederman SS**, Waddell JP: How do traditional hip scoring systems correlate with validated disease-specific and general health outcome measures? American Academy of Orthopaedic Surgeons, Orlando, FL, 2000
5. Schemitsch EH, **Bederman SS**, Waddell JP: How do traditional hip scoring systems correlate with validated disease-specific and general health outcome measures? Canadian Orthopaedic Association, Edmonton, AB, 2000
6. **Bederman SS**, Anastakis DJ: Giant arteriovenous fistula of the upper extremity following a distal radius fracture: a rare complication following a common problem. American Association for Hand Surgery, Palm Springs, CA, 2004
7. Angelini M, Rampersaud YR, Farooq S, **Bederman S**, Chung F, Bernstein M: Acute postoperative pain following outpatient lumbar microdiscectomy: an assessment of 2 different microsurgical approaches. Canadian Spine Society, Beaupre, QC, 2005
8. **Bederman SS**, Bhandari M, McKee MD, Schemitsch EH: Do corticosteroids reduce the risk of fat embolism syndrome in multi-trauma patients?: a meta-analysis. Orthopaedic Trauma Association, Ottawa, ON, 2005
9. **Bederman SS**, Bhandari M, McKee MD, Schemitsch EH: Do corticosteroids reduce the risk of fat embolism syndrome in multi-trauma patients?: a meta-analysis. International Society for Fracture Repair, Adelaide, Australia, 2006
10. **Bederman SS**, Kreder HJ, Weller I, Finkelstein JA, Ford M, Yee AJ: Trends in lumbar spinal fusion and surgeons in spinal surgery. International Society for the Study of the Lumbar Spine, Bergen, Norway, 2006
11. Murnaghan O, Lansang E, **Bederman SS**, Weller I, Bronstein Y, Ford M, Finkelstein JA, Yee AJ: A matched-cohort study of severely polytraumatized patients with and without spinal injury presenting to a Level I trauma institution. Canadian Spine Society, Sun Peaks, BC, 2008
12. **Bederman SS**, Wright JG, McIsaac WM, Coyte PC, Mahomed NN, Kreder HJ: Consensus interpretation of a guideline's recommendation for spinal surgical referral. Institute of Medical Science Scientific Day, University of Toronto, 2008
13. Murnaghan O, Lansang E, **Bederman SS**, Weller I, Bronstein Y, Ford M, Finkelstein JA, Yee AJ: A matched-cohort study of severely polytraumatized patients with and without spinal injury presenting to a Level I trauma institution. North American Spine Society, Toronto ON, 2008
14. **Bederman SS**, McIsaac WJ, Coyte PC, Kreder HJ, Mahomed NN, Wright JG: How do primary care surgical referral practices compare with stated preferences and consensus interpretation of guidelines for degenerative lumbar spinal patients? Canadian Spine Society,

- Gatineau, QC, 2009
15. **Bederman SS**, Coyte PC, Kreder HJ, Mahomed NN, McIsaac WJ, Wright JG: Regional variation in rates of surgery for the degenerative lumbar spine and the influence of patient and physician enthusiasm. Canadian Spine Society, Gatineau, QC, 2009
 16. **Bederman SS**, Coyte PC, Kreder HJ, Mahomed NN, McIsaac WJ, Wright JG: Regional variation in rates of surgery for the degenerative lumbar spine and the influence of patient and physician enthusiasm. International Society for the Study of the Lumbar Spine, Miami, FL, 2009 (Special Emphasis Poster)
 17. **Bederman SS**, McIsaac WJ, Coyte PC, Kreder HJ, Mahomed NN, Wright JG: How do primary care surgical referral practices compare with stated preferences and consensus interpretation of guidelines for degenerative lumbar spinal patients? International Society for the Study of the Lumbar Spine, Miami, FL, 2009
 18. **Bederman SS**, Mahomed NN, Kreder HJ, McIsaac WJ, Coyte PC, Wright JG: Understanding patient and physician preferences for surgery on the degenerative lumbar spine. International Society for the Study of the Lumbar Spine, Miami, FL, 2009
 19. **Bederman SS**, McIsaac WJ, Coyte PC, Kreder HJ, Mahomed NN, Wright JG: How do primary care surgical referral practices compare with stated preferences & consensus interpretation of guidelines for degenerative lumbar spinal patients? Global Spine Congress, San Francisco, CA, 2009
 20. **Bederman SS**, Coyte PC, Kreder HJ, Mahomed NN, McIsaac WJ, Wright JG: Regional variation in rates of surgery for the degenerative lumbar spine and the influence of patient and physician enthusiasm. Global Spine Congress, San Francisco, CA, 2009
 21. **Bederman SS**, Hahn P, Colin V: Accuracy of Robotic Guidance for S2-Alar-Iliac Screws in Spinal Deformity Correction. International Meeting on Advanced Spine Techniques, Istanbul, Turkey, 2012.
 22. **Bederman SS**, Hahn P, Colin V: Accuracy of Robotic Guidance for S2-Alar-Iliac Screws in Spinal Deformity Correction. Spine Across the Sea, Kauai, HI, 2012.
 23. **Bederman SS**, Hahn P, Colin V: Accuracy of Robotic Guidance for S2-Alar-Iliac Screws in Spinal Deformity Correction. Global Spine Congress, Hong Kong 2013.
 24. **Bederman SS**, Pahlavan S, Berven SH: Variation in Costs of Spinal Implants: A target for cost-saving interventions. American Orthopaedic Association, Denver 2013.
 25. Daly MC, Bhatia NN, **Bederman SS**: The Influence of Insurance Status on the Surgical Treatment of Acute Spinal Fractures (Special Emphasis Poster). American Orthopaedic Association, Denver 2013.
 26. **Bederman SS**, Shah K, Hassan J, Hoang B, Kiester PD, Bhatia NN: Surgical techniques for spinopelvic reconstruction following total sacrectomy: a systematic review. American Orthopaedic Association, Denver 2013.
 27. Mnatsakanyan L, **Bederman SS**, Guillen H, Yanni D: Saphenous Nerve SSEP during Lateral Interbody Fusion. American Clinical Neurophysiology Society, Atlanta, GA 2014.
 28. Kiester PD, **Bederman SS**: How Tethers Link Rotation and Displacement which Results in Vertebral Body Tilting: A Theoretical Framework for the Understanding of Adolescent Spinal Deformity. International Meeting on Advanced Spine Techniques, Valencia, Spain 2014.

INVITED LECTURES

1. Joint University of Toronto–Ontario Cancer Institute/Princess Margaret Hospital–Ontario Cancer Treatment & Research Foundation Seminar Series, University of Toronto, 1996
“Functional spatial autocorrelation for irregularly spaced longitudinal data”

2. Institute of Medical Science Undergraduate Research Day, University of Toronto, 1998
“Prediction of revision to total hip arthroplasty based on St. Michael’s Hip Scoring System”
3. Diagnostic Hearing Guideline Development Task Force, College of Physicians and Surgeons of Ontario, Toronto, ON, 1999. “Auditory Brainstem Response sensitivity for small acoustic neuromas: a meta-analysis”
4. Combined Vascular Surgery – Interventional Radiology Rounds, St. Michael’s Hospital, Toronto, ON, 2002. “Peripheral vascular trauma”
5. Combined Orthopaedic Rounds, Sunnybrook Health Sciences Centre/Orthopaedic & Arthritic Institute, Toronto. 2002. “Primary total hip arthroplasty in displaced femoral neck fractures”
6. Orthopaedic Research Day, University of Toronto. 2004. “Do corticosteroids reduce the risk of fat embolism syndrome in multi-trauma patients?:a meta-analysis”
7. Orthopaedic Resident’s Down Day Lecture Series, University of Toronto. 2004.
“Rheumatoid arthritis of the spine”
8. Orthopaedic School, University of Toronto. 2004. “Fat embolism syndrome”
9. Upper Extremity Rounds, St. Michael’s Hospital, Toronto, 2005. “Disorders of the Distal Radioulnar Joint”
10. Foot & Ankle Rounds, St. Michael’s Hospital, Toronto, 2005. “Talus Fractures”
11. Upper Extremity Rounds, St. Michael’s Hospital Toronto. 2005. “Acute Scaphoid Fractures”
12. Foot & Ankle Rounds, St. Michael’s Hospital, Toronto, 2005. “Calcaneus Fractures”
13. Foot & Ankle Rounds, St. Michael’s Hospital, Toronto, 20/05. “Nerve Compression Syndromes in the Foot and Ankle”
14. Orthopaedic School, University of Toronto. 2005. “Fat embolism syndrome”
15. Orthopaedic Rounds, Orthopaedic and Arthritic Institute, Sunnybrook Health Sciences Centre, Toronto. 2005. “Disorders of the Distal Radioulnar Joint”
16. Orthopaedic Resident’s Down Day Lecture Series, University of Toronto. 2004. “Disorders of the Distal Radioulnar Joint”
17. Kennedy Visiting Professorship, Division of Orthopaedic Surgery, University of Toronto. 2005.
“How do Surgeon Factors Impact on Outcomes for Lumbar Spinal Surgery?”
18. Orthopaedic Rounds, Hospital for Sick Children, Toronto. 2006. “Clubfoot & Congenital Vertical Talus”
19. Orthopaedic Rounds, Hospital for Sick Children, Toronto. 2006. “Leg Length Discrepancy”
20. Orthopaedic Rounds, Hospital for Sick Children, Toronto. 2006. “Syndromes and their Orthopaedic Relevance”
21. Spine Conference, Royal Adelaide Hospital, Adelaide, Australia. 2006. “Trends in lumbar spinal fusion and surgeons factors in spinal surgery”.
22. Knowledge Translation Research Group, Child Health Evaluative Sciences, Hospital for Sick Children, Toronto. 2007. “Variation in patient and physician attitudes towards lumbar spinal stenosis and their influence on regional surgical rates”
23. Biostatistical Methodology Unit Journal Club, Child Health Evaluative Sciences, Hospital for Sick Children, Toronto. 2008. “Conjoint Analysis”
24. Institute for Clinical Evaluative Sciences Academic Rounds, Sunnybrook Hospital, Toronto. 2008. “Area variation in surgical rates for the degenerative lumbar spine and the influence of patient and physician attitudes”.
25. Spine Trauma Rounds, San Francisco General Hospital, San Francisco, CA 2009. “Injuries to the Upper Cervical Spine”
26. Grand Rounds, Department of Orthopaedic Surgery, University of California at San Francisco, San Francisco, CA 2009. “Variation in attitudes and treatments for degenerative disease of the lumbar spine: who you see is what you get!”
27. Grand Rounds, Department of Orthopaedic Surgery, University of California at Irvine,

- Orange, CA 2010. "Variation in attitudes and treatments for degenerative disease of the lumbar spine: who you see is what you get!"
28. One Call Medical University Webinar, 2010. "Treatment of Common Workplace Injuries of the Neck and Back"
 29. Grand Rounds, Department of Family and Community Medicine, University of California at Irvine, Santa Ana, CA 2010. "Approach to the Patient with Neck Pain"
 30. Grand Rounds, Department of Orthopaedic Surgery, University of California at Irvine, Orange, CA 2010. "Lateral Approach for Lumbar Fusion"
 31. Intraoperative Neurophysiological Monitoring Rounds, University of California at Irvine, Orange, CA 2010. "Surgical Correction of Adult Scoliosis and Spinal Deformity"
 32. Grand Rounds, Department of Orthopaedic Surgery, University of California at Irvine, Orange, CA 2010. "Upper Cervical Spine Fractures"
 33. Comparative Effectiveness Research Symposium, University of California at Irvine, Irvine, CA 2011. "Surgical Treatment of Spinal Disorders"
 34. St. Vincent's Grand Rounds, Los Angeles, CA 2011. "Adult Scoliosis and Kyphosis"
 35. Grand Rounds, Department of Orthopaedic Surgery, University of California at Irvine, Orange, CA 2011. "Lower Cervical Spine Fractures"
 36. Keynote Speaker. 12th International Phillip Zorab Symposium, British Scoliosis Research Foundation – Institute de France Fondation Yves Cotrel, London, UK 2011. "Surgical Treatment of Adult Scoliosis: Where have we been and where are we going?"
 36. Grand Rounds, Spine Program, Glendale Adventist Hospital, Glendale, CA 2011. "Adult Scoliosis"
 37. Grand Rounds, Department of Orthopaedic Surgery, University of California at Irvine, Orange, CA 2011. "Sacral Fractures"
 38. UCLA Resident Spine Trauma Course, Los Angeles, CA 2011. "Cervical Spine Injuries: Sub-axial Trauma"
 39. UCLA Resident Spine Trauma Course, Los Angeles, CA 2011. "Anatomy and Biomechanical of Thoracolumbar Trauma"
 40. UCLA Resident Spine Trauma Course, Los Angeles, CA 2011. "Classification and Treatment of Lumbo-Sacral Junction and Sacral Fractures"
 41. UCSF Practical Course in Advanced Spinal Techniques, Las Vegas, NV 2011. "Pelvic Fixation in Long Fusions"
 42. Grand Rounds, Department of Orthopaedic Surgery, University of California at Irvine, Orange, CA 2011. "Scoliosis in Children"
 43. Citrus Valley Medical Center – Queen of the Valley Pediatric Grand Rounds, West Covina, CA 2011. "Scoliosis in Children and Adults"
 44. Grand Rounds, Department of Medicine, University of California at Irvine, Orange, CA 2011. "Variation in Attitudes and Treatments for Degenerative Disease of the Lumbar Spine: What's Driving the System?"
 45. Grand Rounds, Department of Neurology, University of California at Irvine, Orange, CA 2011. "Adult Spinal Deformity"
 46. Grand Rounds, Division of Rheumatology, Department of Medicine, University of California Irvine, Orange, CA 2011. "Inflammatory Arthritides through the Lens of the Spinal Surgeon"
 47. Rehab Therapy In-Service Lecture, University of California at Irvine, Orange, CA 2011. "Adult Spinal Deformity: Principles of Surgical Correction"
 48. Children's Hospital of Orange County (CHOC) Mission Hospital Pediatric Grand Rounds, Mission Viejo, CA 2012. "Scoliosis and Spine Disorders: Pediatric and Adult"
 49. University of California at Irvine, Medical School Year II, Irvine, CA 2012. "Introduction to Musculoskeletal Problems and the Screening Musculoskeletal Examination"

50. Grand Rounds, Department of Family and Community Medicine, University of California at Irvine, Santa Ana, CA 2012. "Adult Scoliosis and Kyphosis"
51. Grand Rounds, Department of Orthopaedic Surgery, University of California at Irvine, Orange, CA 2012. "Inflammatory Arthritides of the Spine"
52. Grand Rounds, Department of Orthopaedic Surgery, University of California at Irvine, Orange, CA 2012. "Adult Scoliosis"
53. Grand Rounds, Department of Surgery, University of California at Irvine, Orange, CA 2012. "Traumatic Injuries to the Cervical Spine"
54. UCSF Practical Course in Advanced Spinal Techniques, Las Vegas, NV 2012. "Robotics in Spinal Deformity and Revision Surgery"
55. Carpe Diem Hand Club, Laguna Beach, CA 2012. "Differentiating Between Cervical Spondylosis and Upper Extremity Entrapment Neuropathies"
56. Depuy Synthes Future Leaders Workshop, San Diego, CA 2013. "Anterior Access Approach to Deformity Correction"
57. Wilson-Bost Interurban Club, Orange, CA 2013. "Robotics in Complex Spinal Surgery"
58. Graduate Research Forum, Department of Orthopaedic Surgery, UC Irvine, Newport Beach, CA 2013. "Adult Spinal Deformity: Principles of Surgical Correction and Implications for Rehabilitation"
59. American College of Spine Surgery Annual Meeting, Las Vegas NV 2013. "Adult Spinal Deformity: Principles of Surgical Correction"
60. UCSF Practical Course in Advanced Spinal Techniques, Las Vegas NV 2013. "Approach to the Revision Spine Patient"
61. Orange County Medical Association, Orthopaedic Trauma Symposium, Irvine CA 2013. "Cervical Spine Injuries"
62. Health Policy Research Institute Lecture Series, Irvine, CA 2014. "A Look at Spinal Surgery through a Health Service Lens"
63. Grand Rounds, Department of Orthopaedic Surgery, University of California at Irvine, Orange, CA 2012. "Spondylolisthesis"
64. Brazilian Congress of Spinal Surgery, Sao Paulo, Brazil 2014. "Long Construct Fixations and Deformity"
65. Brazilian Congress of Spinal Surgery, Sao Paulo, Brazil 2014. "A Systematic Approach to Spinal Deformity Surgery"
66. American College of Spine Surgery Annual Meeting, Las Vegas NV 2014. "Adult Spinal Deformity: Principles of Surgical Correction"
67. 9th Annual UCSF Spine Symposium, San Francisco, CA 2014. "The Perioperative Surgical Home for Painful Spinal Deformities"
68. Graduate Research Forum, Department of Orthopaedic Surgery, UC Irvine, Irvine, CA 2014. "Surgical Treatment for Spinal Deformities"

INVITED COURSE FACULTY

UCSF Practical Course in Advanced Spinal Techniques, Las Vegas, NV	2011
UCLA Resident Spine Trauma Course, Los Angeles, CA	2011
UCSF Practical Course in Advanced Spinal Techniques, Las Vegas, NV	2012
DePuy-Synthes Future Leaders Workshop, San Diego, CA	2013
North American Spine Society Annual Meeting, New Orleans, LA	2013
Section on Radiology Pre-Course: Imaging of the Spine	
UCSF Practical Course in Advanced Spinal Techniques, Las Vegas, NV	2013
North American Spine Society Annual Meeting, San Francisco, CA	2014
Section on Radiology Pre-Course: Imaging of the Spine	

Value Symposium: Implementing Accountable Care in Spine Surgery to Promote Sustainable Health Care

MENTORED STUDENTS

Clinical Fellowship:

Hardeep Salaria Newcastle, Australia 2012

Resident Research:

Vu Le Fellow, University of Miami 2011-2

Stephen Huo PGY-4 2012-3

Duy Phan PGY-4 2013-

Sohrab Pahlavan PGY-3 2013-

Nick Jain PGY-2 2013-

Medical Students:

Michael C. Daly Resident, Harvard University 2011-2013

Kalpit Shah MS-4, UC Irvine 2012-

Jeffrey Hassan MS-4, UC Irvine 2012-

Peter Hahn Resident, UC Irvine 2011-

Justin Hopkins Resident, UC Davis 2011-2013

Ashton Christian MS-1, UC Irvine 2012-3

Ryan Mayer MS-1, UC Irvine 2012-3

Michael Abrouk MS-1, UC Irvine 2012-3

Nathaniel Fung MS-1, SUNY Downstate 2012-3

LICENSES AND CERTIFICATIONS

Licentiate of the Medical Council of Canada 2002

Fellow, Royal College of Surgeons of Canada (Orthopaedic Surgery) 2006

College of Physicians and Surgeons of Ontario 2006

United States Medical Licensing Examination 2007

Medical Board of California 2008

American Board of Orthopaedic Surgery 2012

PROFESSIONAL MEMBERSHIP

American Academy of Orthopaedic Surgeons (AAOS), Active Fellow

American Orthopaedic Association (AOA), Emerging Leaders Program

AO Spine

Canadian Orthopaedic Association (COA)

Cochrane Back Review Group

International Society for Study of the Lumbar Spine (ISSLS)

North American Spine Society (NASS)

Ontario Medical Association (OMA), Canadian Medical Association (CMA)

Royal College of Physicians and Surgeons of Canada (RCPSC)

Scoliosis Research Society (SRS), Candidate Member

Society of Lateral Access Surgeons (SOLAS)

UNIVERSITY AND COMMUNITY SERVICE

Research Committee, Division of Orthopaedic Surgery, University of Toronto 2002–2006

Residency Selection Committee, Orthopaedic Surgery, University of Toronto 2004–2005

Task Force on Clinical Fellows, Department of Surgery, University of Toronto	2005–2006
Research Ethics Day Development Committee, Clinician Investigator Program University of Toronto	2006-2007
Bone and Joint Decade Canada. Hip and Knee Replacement Toolkit	2009
Medical Director, Orthopaedic Inpatient Services, UC Irvine Medical Center	2010 – Present
Co-Chair, UC Irvine Spine Symposium, Irvine, CA	2011
Steering Committee, Master of Science in Biomedical and Translational Science, School of Medicine, UC Irvine	2011 – Present
Radiology Committee, North American Spine Society	2012 – Present
Quality and Safety Officer, Department of Orthopaedic Surgery, UC Irvine	2012—Present
Panelist, RAND Study, <i>The Appropriateness of Surgical Treatment Approaches for Lumbar Degenerative Scoliosis</i>	2013
Surgeon Champion, Perioperative Inpatient Orthopaedic Surgical Home, UC Irvine Medical Center	2013-
Co-Chair, UC Irvine Spine Symposium, Irvine, CA	2014

EDITORIAL BOARDS

Journal of the Canadian Chiropractic Association	2008 – Present
BMC Musculoskeletal Disorders	2011 – Present

MANUSCRIPT REVIEWER

Journal of the Canadian Chiropractic Association	2001 – Present
Canadian Medical Association Journal	2008 – Present
Medical Care	2009 – Present
Journal of Emergencies, Trauma, and Shock	2010 – Present
Spine	2010 – Present
Clinical Orthopaedics and Related Research	2010 – Present
British Medical Journal	2010 – Present
New England Medical Journal	2011 – Present
The Lancet	2013 – Present