

ALI ZAHRAI, BSc, MD, MSc, FRCSC, ABOS

PEER-REVIEWED PUBLICATIONS

Zahrai A, Bhanot, K, Mei X, Crawford E, Tan Z, Yee A, Palda V. Surgeon clinical practice variation and patient preferences during the informed consent discussion: a mixed-methods analysis in lumbar spine surgery. *Canadian Journal of Surgery (CJS)*. 63(3): E284-291, 2020.

Zahrai A, Rhee JM. Cervical and Thoracic Degenerative Spinal Instability. *Seminars in Spine Surgery*. 25(2):83-91, June 2013.

Thakur N, **Zahrai A**, Boden S. Laminoplasty: Tips, Tricks and Pitfalls. *Contemporary Spine Surgery*. 13(9), 1-7, September 2012.

Zahrai A, Chahal J, Stojimirovic D, Schemitsch E, Yee A, Kraemer W. Quality of life and educational benefit among orthopedic surgery residents: A prospective, multi-centre comparison of the night float and the standard call systems. *Canadian Journal of Surgery (CJS)*. 54(1):25-32, 2011.

Ravi B, **Zahrai A**, Rampersaud Y.R. Clinical Accuracy of Computer-assisted 2D fluoroscopy for the Percutaneous Placement of Lumbosacral Pedicle Screws. *Spine*. 36(1):84-91, 2011.

Chahal J, Dhotar H, **Zahrai A**, Whelan DB. PCL Reconstruction with the Tibial Inlay Technique Following IM Nail Fixation of an Ipsilateral Tibial Shaft Fracture – a case report and treatment algorithm. *Knee Surgery, Sports Traumatology, Arthroscopy*. 18(6):777-780, 2010.

Zahrai A, Bhandari M, Varma A, Rennie WR, Stephen D, Kreder H, McKee M, Waddell JP, Schemitsch E. Orthopaedic Surgery Residents' Quality of Life During A Trauma Rotation: A Multi-centred Prospective Study. *Canadian Journal of Surgery (CJS)*. 51(3):190-196, 2008.

Zahrai A, Hossain D, Embil JM, Trepman E. Tumoral Calcinosis: A Man with an Enlarging Foot Mass. *Canadian Medical Association Journal (CMAJ)*. 171(11):1347, 2004.

PEER-REVIEWED PUBLISHED ABSTRACTS AND PRESENTATIONS

Zahrai, A, Chiles J, Thakur N, Refai D, Heller J, Boden S. Fusion Rates and Cost Analysis of Stand-alone Anterior Lumbar Interbody Fusion versus Anterior Lumbar Interbody Fusion with supplemental anterior or posterior instrumentation. Accepted for North American Spine Society (NASS) meeting. New Orleans, LA. Oct 2013

Zahrai A, Chiles J, Thakur N, Refai D, Boden SD, Heller JG. Fusion Rates and Cost Analysis of Stand-alone Anterior Lumbar Interbody Fusion versus Anterior Lumbar Interbody Fusion with supplemental anterior or posterior instrumentation. Canadian Spine Society (CSS). Quebec, Canada. Feb 2013.

Banerjee S, El Zahran T, Carpenter W, Pierre-Jerome C, Kakarala A, Chiles J, **Zahrai A**, Refai A, Heller J, Boden S, and Terk. Anterior Lumbar Interbody Fusion: The Use of CT in the Postoperative Patient and guidelines on the appropriate time for follow-up imaging. *Lumbar Spine Research Society (LSRS)*. Chicago, USA. 2012.

Zahrai A, Chahal J, Stojimirovic D, Schemitsch E, Yee A, Kraemer W. Quality of life and educational benefit among orthopedic surgery residents: A prospective, multi-centre comparison of the night float and the standard call systems. *Journal of Bone & Joint Surgery (JBJS)*, British Volume 93 (SUPP IV), 591-591, 2011.

Zahrai A, Chahal J, Stojimirovic D, Schemitsch E, Yee A, Kraemer W. Quality of life and educational benefit among orthopedic surgery residents: A prospective, multi-centre comparison of the night float and the standard call systems. *Combined Meeting of the Orthopaedic Associations (COMOC)*. Glasgow, UK. 2010.

Zahrai A, Palda V, Davis A, Yee A. The Development of a Preliminary Preoperative Education Tool for Patients Undergoing Lumbar Microdiscectomy Utilizing Multiple Stakeholder Focus Groups. *Canadian Orthopaedic Association (COA)*. Edmonton, Canada. 2010.

Zahrai A, Chahal J, Stojimirovic D, Schemitsch E, Yee A, Kraemer W. Quality of life and educational benefit among orthopedic surgery residents: A prospective, multi-centre comparison of the night float and the standard call systems. *Canadian Orthopaedic Association (COA) and Canadian Orthopaedic Resident Association (CORA)*. Edmonton, Canada. 2010.

Zahrai A, Palda V, Davis A, Yee A. The Development of a Preliminary Preoperative Education Tool for Patients Undergoing Lumbar Microdiscectomy Utilizing Multiple Stakeholder Focus Groups. *Gallie-Bateman Research Day*. Toronto, Canada. 2010.

Zahrai A, Palda V, Davis A, Yee A. What Do Patient's Want to Know? Determining the Information Needs of Patients Undergoing Lumbar Microdiscectomy. *Health Policy, Management and Evaluation (HPME) Research Day*. Toronto, Canada. 2010.

Zahrai A, Chahal J, Stojimirovic D, Schemitsch E, Yee A, Kraemer W. Quality of Life and Educational Benefit Among Orthopaedic Surgery Residents in Two Level-I Trauma Centres: A Prospective, Multi-centre Comparison of the Night Float and the Standard Call Systems. *Gallie-Bateman Research Day*. Toronto, Canada. 2010.

Zahrai A, Palda V, Davis A, Yee A. The Development of a Preliminary Preoperative Education Tool for Patients Undergoing Lumbar Microdiscectomy Utilizing Multiple Stakeholder Interviews. *Canadian Spine Society (CSS)*. Lake Louise, Canada. 2010.

Kraemer W, Chahal J, **Zahrai A**, Zarrabian M, Stojimirovic D, Yee A, Schemitsch E. Quality of Life and Educational Benefit Among Orthopaedic Surgery Residents in Two Level-I Trauma Centres: A Prospective, Multi-centre Comparison of the Night Float and the Standard Call Systems. *Royal College of Physicians and Surgeons of Canada International Conference on Residency Education*. Victoria, 2009.

Zahrai A, Ravi B, Rampersaud Y.R. Clinical Accuracy of Fluoroscopic Computer Assisted Percutaneous Pedicle Screw Placement: A CT Analysis. *Journal of Bone & Joint Surgery*, British Volume 91 (SUPP II), 224-225, 2009.

Zahrai A, MacDonald C, Rooney J, Bhandari M, Stephen D, McKee M, Waddell JP, Schemitsch E. Performance of Three Disease-specific and Two Generic Measures of Outcome in Patients with Talar Neck Fractures. *Gallie-Bateman Research Day*. Toronto, Canada. 2009.

Zahrai A, Ravi B, Rampersaud Y.R. Clinical Accuracy of Fluoroscopic Computer Assisted Percutaneous Pedicle Screw Placement: A CT Analysis. *Canadian Spine Society (CSS)*, Quebec, Canada. 2007.

Zahrai A, Ravi B, Rampersaud Y.R. Clinical Accuracy of Fluoroscopic Computer Assisted Percutaneous Pedicle Screw Placement: A CT Analysis. *Canadian Orthopaedic Association (COA)*, Halifax, Canada. 2007.

Zahrai A, MacDonald C, Rooney J, Bhandari M, Stephen D, McKee M, Waddell JP, Schemitsch E. Performance of Three Disease-specific and Two Generic Measures of Outcome in Patients with Talar Neck Fractures. *Canadian Orthopaedic Resident Association (CORA)*, Halifax, Canada. 2007.

Zahrai A, Bhandari M, Varma A, Rennie WR, Stephen D, Kreder H, McKee M, Waddell JP, Schemitsch E. Orthopaedic Surgery Residents' Quality of Life During A Trauma Rotation: A Multi-centred Prospective Study. *American Academy of Orthopaedic Surgeons (AAOS)*, Chicago, USA. 2006.

Zahrai A, MacDonald C, Rooney J, Bhandari M, Stephen D, McKee M, Waddell JP, Schemitsch E. Performance of Three Disease-specific and Two Generic Measures of Outcome in Patients with Talar Neck Fractures. *American Academy of Orthopaedic Surgeons (AAOS)*, Chicago, USA. 2006.

Zahrai A, MacDonald C, Rooney J, Bhandari M, Stephen D, McKee M, Waddell JP, Schemitsch E. Performance of Three Disease-specific and Two Generic Measures of Outcome in Patients with Talar Neck Fractures. *International Society for Fracture Repair*. Sydney, AU. 2006.

Zahrai A, Shah J, Narotam P, Goytan M. A Prospective Clinical Study of the Use of Collagen Matrix as a Dural Graft in Spinal Surgery. *Journal of Bone & Joint Surgery (JBJS)*, British Volume 87 (Supp III), 295, 2005.

Zahrai A, MacDonald C, Rooney J, Bhandari M, Stephen D, McKee M, Waddell JP, Schemitsch E. Performance of Three Disease-specific and Two Generic Measures of Outcome in Patients with Talar Neck Fractures. *Orthopaedic Trauma Association (OTA)*, Ottawa, Canada. 2005.

Zahrai A, MacDonald C, Rooney J, Bhandari M, Stephen D, McKee M, Waddell JP, Schemitsch E. Performance of Three Disease-specific and Two Generic Measures of Outcome in Patients with Talar Neck Fractures. *Canadian Orthopaedic Association (COA)*. Montreal, Canada. 2005.

MacDonald C, **Zahrai A**, Walker R, Rooney J, Wright J, Waddell JP, Schemitsch E. Important Activities and the Severity of Problems for Patients Undergoing Total Knee Arthroplasty: A 24-Month Follow Up. *Canadian Orthopaedic Association (COA)*. Montreal, Canada. 2005.

Zahrai A, Shah J, Narotam P, Goytan M. A Clinical Study of the Use of Collagen Matrix as a Dural Graft in Spinal Surgery. *The 11th Meeting of the Combined Orthopaedic Associations*, Sydney, AU. 2004.

Zahrai A, Bhandari M, Varma A, Rennie WR, Stephen D, Kreder H, McKee M, Waddell JP, Schemitsch E. A Multi-centred Prospective Study on Orthopaedic Surgery Residents' Quality of Life During A Trauma Rotation. *The 11th Meeting of the Combined Orthopaedic Associations*, Sydney, AU. 2004.

Zahrai A, Shah J, Narotam P, Goytan M. A Prospective Clinical Study of the Use of Collagen Matrix as a Dural Graft in Spinal Surgery. *The 11th International Meeting on Advanced Spine Techniques (IMAST)*. Southampton, Bermuda. 2004.

Zahrai A, Shah J, Narotam P, Goytan M. A Prospective Clinical Study of the Use of Collagen Matrix as a Dural Graft in Spinal Surgery. *Canadian Orthopaedic Association (COA)*. Winnipeg, Canada. 2003.

MASTER OF SCIENCE THESIS

Thesis title: What Do Patients Want to Know? Determining the Information Needs of Patients Undergoing Lumbar Microdiscectomy

Research goal: Development of a Preliminary Preoperative Education Tool for Patients Undergoing Lumbar Microdiscectomy

- Qualitative methodology was utilized to determine patient information needs
- Focus group interviews with all relevant stakeholders were conducted
- Focus groups included pre-operative and post-operative patients, spine surgeons, spine fellows, residents, anesthesiologists, pre-operative staff team (e.g. nurses, educators, managers) and surgeons' administrative assistants
- The data was analyzed to derive desired content areas of patient information needs

KEY COMPETENCIES GAINED THROUGH MASTERS PROGRAM

- Qualitative Research Methodology
- Effective Leadership

- Team Efficiency and Team Management
- Health Sector Organization and Management
- Health Sector Strategy
- Health Sector Marketing
- Healthcare Consulting
- Balanced Score Card
- Pay-for-Performance
- Design and Assessment of Health Status Measures
- Grant Acquisition
- Biostatistics
- Clinical Epidemiology

HEALTH SECTOR PROJECTS

- 2010 The University of Toronto Spine Collaborative – Creation of a Collaborative Model to Enhance the Triage of Acute Spine Patients
- 2010 Canadian Spine Society (CSS) and Canadian Orthopaedic Foundation (COF) – Research and Development Team Member for the Canadian Spine Education Website (www.BackCareCanada.ca)
- 2009 Rotman School of Management – Lead pro bono Consultant, Strategic Marketing and Tactical Plan for Wyeth's Advil in the Canadian market
- 2009 Rotman School of Management – Lead pro bono Consultant, Strategic Marketing and Tactical Plan for Stryker Exeter Stem in Ontario, Canada
- 2009 Rotman School of Management – Pro bono Consultant, Ontario Hospital Association (OHA), Analysis of the Data and Indicators for Hospital Efficiency and Performance
- 2009 Rotman School of Management – Position Paper, Local Health Integration Networks (LHINs). Review of the Strengths, Weaknesses, and Metrics for Long-Term Survival

HEALTH SECTOR CORE COURSES

- 2008 Health Sector Strategy and Organization, Rotman School of Management
- 2009 Effective Leadership, Rotman School of Management
- 2009 Health Care Consulting, Rotman School of Management
- 2009 Health Care Marketing, Rotman School of Management
- 2009 Measurement in Clinical Research, Department of Health Policy, Management, and Evaluation

RESEARCH GRANTS

- 2010 Postgraduate Medical Education (PGME) Research Fellowship Award (\$15,000), University of Toronto
- 2010 Johnson & Johnson Fellowship Award (\$25,000), Outstanding Resident in Surgeon-Scientist Program
- 2010 Graduate Student Endowment Fund Lawson Award (\$15,000), University of Toronto
- 2009 Ontario Graduate Scholarship (\$15,000), Ministry of Training, Colleges and University

INVITED LECTURES

- 03/20/2013 Orthopaedic Surgery Grand Rounds, University of Manitoba. Title: Strategies to Improve Efficiency and Decrease Costs of Spine Surgery.
- 06/31/2012 Orthopaedic Surgery Grand Rounds, University of New Mexico, Albuquerque, NM.
- 12/16/2011 Orthopaedic Grand Rounds, University of Manitoba. Title: Minimal Resource Effective Spine Surgery
- 07/07/2011 JA Nutter Lecture – 66th Canadian Orthopaedic Association (COA) Annual Meeting, St. John's, NL.
- 07/06/2011 Canadian Orthopaedic Resident Association (CORA), St. John's, NL. Title: The (Un) Happy Triad: Research, Exam and Fellowship – What you need to know to succeed.

- 09/06/2010 Annual Ontario Orthopaedic Association (OOA) Meeting. Title: Quality of life and educational benefit among orthopedic surgery residents: A prospective, multi-centre comparison of the night float and the standard call systems.
- 09/15/2010 Grand Surgical Rounds, University of Manitoba, Winnipeg, Manitoba. Title: What patients want to know: Determining the information needs of patients undergoing lumbar spine surgery.

ACADEMIC ACTIVITIES

- 12/01/2014-Present Spine Surgery Teaching Faculty, Largo Medical Center Orthopaedic Surgery Residency program, University of South Florida Morsani College of Medicine
- 10/08/2009-11/02/2010 Contributing member, Canadian Spine Society Back Care Website Development
- 07/01/2009-06/30/2010 Research Investigator, University of Toronto Spine Collaborative Group (SpineLINK)
- 07/01/2009-07/01/2010 Spine Program Strategic Planning Committee Member, University of Toronto Spine Program
- 07/01/2009-07/01/2010 SpineFEST™ Program Committee Member, University of Toronto Spine Program
- 03/07/2009 Invited Manuscript Reviewer, Psychiatry Research Journal

TEACHING

- 01/30/2013 Cervical spine trauma review, University of New Mexico core Orthopaedic resident curriculum
- 06/06/2011 University of Toronto Spine Cadaver Course for Residents
- 07/09/2010 Mini AO course and casting for Residents, University of Toronto
- 08/05/2009 Ankle fracture surgical management, Competency Based Curriculum Resident teaching, University of Toronto

ACADEMIC SERVICE

- 12/01/2014-Present Spine Surgery Teaching Faculty, Largo Medical Center Orthopaedic Surgery Residency program, University of South Florida Morsani College of Medicine
- 12/01/2005-02/01/2010 Admissions Committee Member, Division of Orthopaedic Surgery, University of Toronto
- 12/11/2008-4/12/2010 Program Committee Member, Royal College of Physicians and Surgeons Clinical Investigator Program, University of Toronto
- 7/11/2008-10/13/2010 Research Committee Member, Department of Surgery, University of Toronto
- 07/01/2005-06/31/2009 Social Representative, Division of Orthopaedic Surgery, University of Toronto
- 08/01/2005-06/31/2007 Resident Representative, Program committee, Division of Orthopaedic Surgery, University of Toronto

PROFESSIONAL SOCIETY POSITIONS AND MEMBERSHIPS

- 12/31/2017-Present North American Spine Society
- 07/01/2005-Present American Academy of Orthopaedic Surgeons
- 07/01/2005-Present Canadian Orthopaedic Association

EXTRACURRICULAR ACTIVITIES

- 12/02/2008-09/23/2011 Board Member, Board of Directors, Old Woodbridge YRCECC-1088 Corporation, Vaughan, ON.