

CURRICULUM VITAE

John C. Neilson MD

**Associate Professor
Department of Orthopaedic Surgery**

OFFICE ADDRESS:

Hub for Collaborative Medicine
8701 Watertown Plank Road
Milwaukee, WI 53226
Phone: 414-955-3232
Fax: 414-955-0061
Email: jneilson@mcw.edu

EDUCATION:

08/1996 - 05/2000 B.A., Mount Marty College, Yankton, SD
08/2000 - 05/2004 M.D., University of South Dakota School of Medicine, Vermillion, SD
07/2004 - 06/2009 Resident, Orthopaedic Surgery, Medical College of Wisconsin, WI
08/2009 - 07/2010 Fellowship, Orthopaedic Oncology, University of Medicine and Dentistry of New Jersey,
NJ

FACULTY APPOINTMENTS:

08/30/2010 - Present Assistant Professor, Orthopaedic Surgery, Oncology, Children's Hospital of Wisconsin,
9000 W. Wisconsin Ave., Milwaukee, WI 53226
09/01/2010 - Present Assistant Professor, Orthopaedic Surgery, Medical College of Wisconsin, 8701
Watertown Plank Rd., Milwaukee, WI 53226

ADMINISTRATIVE APPOINTMENTS:

09/01/2011 - Present Patient Safety and Quality Officer, Orthopaedics, Froedtert & the Medical College of
Wisconsin, Milwaukee, WI
09/01/2012 - Present Trustee, Medical Board of Trustees, Musculoskeletal Transplant Foundation, Edison, NJ
04/01/2017 - Present Division Chief, Orthopaedics, Musculoskeletal Oncology, Medical College of
Wisconsin, Milwaukee, WI

HOSPITAL STAFF PRIVILEGES:

09/01/2010 - Present Staff, Orthopaedic Surgery, Froedtert Memorial Lutheran Hospital, 9200 W. Wisconsin
Ave., Milwaukee, WI 53226
09/01/2010 - Present Staff, Orthopaedic Surgery, Children's Hospital of Wisconsin, 9000 W. Wisconsin Ave.,
Milwaukee, WI 53226
06/01/2012 - Present Staff, Orthopaedic Surgery, Community Memorial Hospital, W180 N8085 Town Hall
Rd, Menomonee Falls, WI 53051
05/15/2018 - Present Staff, Orthopaedic Surgery, St. Joseph's Hospital, 3200 Pleasant Valley Rd, West Bend,
WI 53095

SPECIALTY BOARDS AND CERTIFICATION:

<u>Board Certified</u>	<u>Issue Date</u>	<u>Expiration</u>
American Board of Orthopaedic Surgery	09/01/2012	12/31/2022

AWARDS AND HONORS:

2004 - Present Alpha Omega Alpha
2016 - 2019 Milwaukee Top Doctor

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

12/2003 - Present Alpha Omega Alpha (Member)
09/2010 - Present Wisconsin Orthopaedic Society (Member)
09/2010 - Present American Academy of Orthopaedic Surgeons (Member)
2010 - Present Milwaukee Orthopaedic Society
2011 - Present Wisconsin Orthopaedic Society (Member)

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:**Active****Peer Review**

Title:	Hypofractionated Radiation for Sarcomas of the Extremity
Source:	Froedtert Cancer Center
Role:	Investigator/Participant
Dates:	02/01/2016 - 01/31/2018
Title:	Multiple Organ Failure (MOF) from Sepsis Causes Skeletal Muscle Mitochondrial (MT) Fragmentation and Dysfunction
Source:	CTSI
Role:	Investigator
PI:	Rahul Nanchal
Dates:	01/01/2017 - Present

Prior**Peer Review**

Title:	Joint Kinetic Strategies in Oncology Patients and Femoral Endoprostheses
Source:	American Cancer Society
Role:	Principle Investigator
Dates:	05/01/2015 - 05/01/2017

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:**Local**

Neilson, JC, Evaluation and Treatment of Soft Tissue Sarcomas, Pediatric Surgery Rounds, Children's Hospital of Wisconsin, Milwaukee, WI, 10/09/2015

Regional

Neilson, JC, Complex Pelvic Reconstruction, Kenosha, WI, 11/04/2010
Neilson, JC, Limb Salvage, Green Bay, WI, 10/11/2013
Neilson, JC, Pelvic Reconstruction After Hemipelvectomy, Fond du Lac, WI, 06/10/2014

PEER REVIEWED WORKSHOPS/PRESENTATIONS:**National**

Pappas S, Bedi M, Turaga K, King D, Hackbarth D, LoGiudice J, Neilson JC, Charlson J, Whitfield R, Wang D, Abdominoinguinal approach to retroperitoneal tumors with proximal thigh or groin extension, Poster presented at: Combined Meeting of the Connective Tissue Oncology Society and the Musculoskeletal Tumor Society Annual Meeting, Chicago, Illinois, 2011

- King D, Hackbarth D, Kirkpatrick A, Neilson JC, Reverse total shoulder arthroplasty with allograft proximal humerus reconstruction following tumor resection - initial experience, Combined Meeting of the Connective Tissue Oncology Society and the Musculoskeletal Tumor Society Meeting, Chicago, IL, 2011
- King D, Whitfield R, Barker E, Neilson JC, Hackbarth D, Human acellular dermal matrix wrapping of complex knee reconstructions minimizes deep infections and allows for excellent range of motion with prolonged immobilization, Poster presented at: Musculoskeletal Tumor Society Annual Meeting, Tampa FL, 2012
- King D, Whitfield R, Hackbarth D, Neilson JC, Charlson J, Wang D, Proximal medial thigh tumors have increased risk of major acute wound complications in patients with soft tissue sarcomas treated with neoadjuvant radiation followed by limb-salvage surgery, Poster presented at: Musculoskeletal Tumor Society Annual Meeting, Tampa, FL, 2012
- Bedi M, King D, Whitfield R, Hackbarth D, Neilson JC, Carlson J, Wang D, Smoking and major vein resection predict for post-therapy edema for soft tissue sarcomas treated with neoadjuvant radiation and limb-salvage surgery, Poster presented at: Musculoskeletal Tumor Society Annual Meeting, Tampa, FL, 2012
- Bedi M, King D, Hackbarth D, Charlson J, Neilson JC, Percutaneous biopsies performed at community hospitals are associated with increased post-operative wound complication rates in patients with soft tissue sarcoma, Musculoskeletal Tumor Society Annual Meeting, San Francisco, CA, 2013
- Bedi M, King D, Charlson J, Hackbarth D, Wang D, Neilson JC, Multivitamin use improves disease free and distant metastasis-free survival in patients with soft tissue sarcomas, Musculoskeletal Tumor Society Conference, San Francisco, CA, 2013
- King D, Bedi M, Hackbarth D, Neilson JC, Multiple anticoagulant use increases postoperative wound complications in patients with soft tissue sarcomas, American Academy of Orthopaedic Surgery Annual Meeting, Las Vegas, NV, 2015
- BEDI M, King DM, Hackbarth DA, Neilson JC, Vacuum-Assisted Closure at Time of Sarcoma Resection May Improve Wound Complication Rates in Proximal Lower Extremity Tumors, Musculoskeletal Tumor Society Conference, Denver, CO, 2017 - Present
- Fritz JM, Garman CMR, Albert CI, Bauwens J, Hackbarth DA, King DM, Neilson JC, Harris GF, Lower body kinematics and joint reaction forces with distal femoral endoprosthesis following limb salvage surgery for treatment of osteosarcomas, American Society of Biomechanics, Boulder, CO, 2017
- LoGiudice J, deVries J, Neilson JC, King DM, Hackbarth DA, Staged flap reconstruction of soft tissue sarcoma resections using temporizing negative pressure wound therapy, American Society of Reconstructive Microsurgery, Scottsdale AZ, 2018
- Bedi M, Roland C, Baldini EH, Guadagnolo A, Neilson JC, Challenging Cases in Sarcoma, American Society for Radiation Oncology - ASTRO, Chicago, IL, 09/17/2019

International

- Neilson JC, King DK, Tutton S, Percutaneous treatment of impending acetabular fractures, CIRSE, Barcelona, Spain, 2013
- Neilson, JC, Failed Reconstruction of Hip Fractures >70 y/o - A common problem: What are the Best Options?, 3rd Biannual Arthroplasty Disaster Course, Miami Florida, 09/20/2018 - 09/22/2018
- Neilson JC, Re-Implantation vs. Bone Resection & Megaprosthesis for Recurrent Infection, 3rd Biannual Disaster Arthroplasty Conference, Miami Florida, 09/20/2018 - 09/22/2018

COMMITTEE SERVICE:

Medical College of Wisconsin

- 2011 - Present Faculty Leader, Mortality & Morbidity, Orthopaedic Surgery, Medical College of Wisconsin
- 2011 - Present Committee Member, Program Evaluation Committee, Orthopaedic Surgery, Medical College of Wisconsin
- 2012 - 2017 Committee Member, MCP Quality Committee, Medical College of Wisconsin
- 2013 - 2015 Advisor, Resident Quality Committee, Orthopaedic Surgery, Medical College of Wisconsin
- 2018 - Present Committee Member, Admissions Committee, Medical College of Wisconsin
- 2019 - Present Committee Member, Search Committee-Pathology Chair, Medical College of Wisconsin

Hospital

2010 - Present Member, Sarcoma Program Operational Committee, Froedtert Hospital
2011 - 2012 Committee Member, Antibiotic Stewardship Ad Hoc Committee, Froedtert Hospital
2011 - Present Member, Sarcoma Program Research Committee, Froedtert Hospital
2014 Committee Member, Surgical Antibiotic Prophylaxis in Orthopaedic Patients Committee, Froedtert Hospital
2014 - Present Committee Member, Total Joint Replacement Steering Committee, Community Memorial Hospital
2015 - 2017 Committee Member, Ortho Inpatient PSQI Committee, Orthopaedic Surgery, Froedtert Hospital
2016 - Present Committee Member, OR Clinical Process Committee, Froedtert Hospital
2017 - Present Member, CMH OR Steering Council, Community Memorial Hospital
2017 - 2018 Committee Member, CAUTI Periop Committee, Froedtert Hospital
2018 - Present Product Expert, Captis, Froedtert Health

MEDICAL COLLEGE TEACHING ACTIVITIES:

Medical Student Education

07/01/2012 - Present Clerkship Coordinator - Sarcoma Selective
01/17/2017 Student Surgical Society Presentation
09/27/2017 Student Surgical Society Presentation
02/21/2019 Student Surgical Society Presentation

MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:

Medical Students

Joshua Veenstra, MCW, 10/01/2012 - 06/30/2016 Pathways Mentor, Orthopaedic Resident, Kalamazoo MI
Ashraf Abbas, MCW, 06/01/2013 - 09/01/2013 Summer Research Mentor, paper submitted for publication
Ryan Inwat, MCW, 09/01/2014 - 12/31/2015 M2 Clinical Preceptor
Nicholas Reason, MCW, 06/01/2015 - 09/01/2015 Summer Research Mentor
Richard Allan Gorman, MCW, 06/01/2015 - 09/01/2015 Summer Research Mentor
Derrick Werdler, MCW, 02/01/2018 - 06/30/2019 Clinical Advisor, Orthopaedic Resident, Atlanta GA
Ashley Creager, MCW, 04/01/2018 - Present Summer Research Mentor
Justin Laridaen, Medical College of Wisconsin, 11/01/2018 - Present Research Mentor
Troy Lenz, Medical College of Wisconsin, 06/01/2019 - Present Summer Research Mentor

Residents

Steven Blackwood, MCW, 2012 - 2017 Class Advisor, Private Practice
Lisa Sienkiewicz, MCW, 2012 - 2017 Class Advisor, Private Practice
Jesse Bauwens, MCW, 2012 - 2017 Class Advisor, Private Practice
Alex Riordan, MCW, 2012 - 2017 Class Advisor, Private Practice
Juliet Amene, MCW, 2016 - 2017 Mentor, PM&R Resident
Omar Khatib, MCW, 2017 - 2018 Mentor, Private Practice
Ian English, MCW, 2018 - 2019 Research Mentor, paper submitted for publication
John deVries, MCW, 2018 - 2019 Research Mentor, paper submitted for publication

PROGRAMMATIC DEVELOPMENTS:

Educational Programs

Faculty

09/01/2016 - Present Annual Participation in the MCW Musculoskeletal Malignancy/Sarcoma Symposium

Clinical Programs

2013 - Present Total Joint Center of Excellence
2019 - Present Osteointegrated Prosthesis for Amputee Program

Community Programs

2012 - Present Annual Participation in the MCW Sarcoma Patient event
05/12/2018 Word on Medicine Radio Show for MCW Sarcoma Team

COMMUNITY SERVICE ACTIVITIES:

03/01/2011 - Present Group Leader Ridge Community Church
03/01/2011 - Present Volunteer Ridge Community Church

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Bedi M, King DM, Prah M, Baynes K, Mautz AP, Hackbarth DAJ, **Neilson JC**, Charlson JA, Wang D, Paulson E. Evaluation of neoadjuvant therapy response in adult soft tissue sarcoma using dynamic contrast-enhanced MRI. *Int J Radiat Oncol Biol Phys.* 2013;87(2S):S616-S617.
2. Bedi M, King DM, Shivakoti M, Wang T, Zambrano EV, Charlson J, Hackbarth D, **Neilson J**, Whitfield R, Wang D. Prognostic variables in patients with primary soft tissue sarcoma of the extremity and trunk treated with neoadjuvant radiotherapy or neoadjuvant sequential chemoradiotherapy. *Radiat Oncol.* 2013;Mar 14;8:60.
3. Bedi M, King DM, Whitfield R, Hackbarth DA, **Neilson JC**, Charlson JA, Wang D. The effect of smoking and major vein resection on post-therapy lymphedema in soft tissue sarcomas treated with neoadjuvant radiation and limb-salvage surgery. *Am J Clin Oncol.* 2015;Apr;38(2):184-8.
4. Bedi M, King DM, Hackbarth DA, Charlson JA, Baynes K, **Neilson JC**. Biopsies in the community lead to postoperative complications in soft tissue sarcomas. *Orthopedics.* 2015;Sep;38(9):e753-9.
5. Bedi M, King DM, Charlson JA, Hackbarth DA, **Neilson JC**. Multivitamin use may improve disease-free and distant metastasis-free survival in patients with soft tissue sarcomas of the extremity and chest-wall. *J Nutr Food Sci.* 2016;6:1. doi:10.4172/2155-9600.1000445.
6. Thakur U, Blacksins M, Beebe K, **Neilson JC**, Dashefsky B, Tagoylo G. Synovitis, acne, pustulosis, hyperostosis and osteitis (SAPHO) and chronic recurrent multifocal osteomyelitis (CRMO): role of imaging in diagnosis. *Radiography.* 2012;Aug;18(3):221-224.
7. Hartung MP, Tutton SM, Hohenwarter EJ, King DM, **Neilson JC**. Safety and efficacy of minimally invasive acetabular stabilization for periacetabular metastatic disease with thermal ablation and augmented screw fixation. *J Vasc Interv Radiol.* 2016;May;27(5):682-688.e1.
8. Ogilvie ME, Tutton SM, **Neilson JC**, Rilling WS, Hohenwarter EJ. Geniculate artery embolization for management of recurrent hemarthrosis: a single-center experience. *J Vasc Interv Radiol.* 2016;Jul;27(7):1097-9.
9. Saeed H, King DM, Johnstone CA, Charlson JA, Hackbarth DA, **Neilson JC**, Bedi M. Preoperative radiation therapy followed by reexcision may improve local control and progression-free survival in unplanned excisions of soft tissue sarcomas of the extremity and chest-wall. *Int J Surg Oncol.* 2016;2016:5963167.
10. King DM, Bedi M, Hackbarth DA, **Neilson JC**. Multiple anticoagulant use increases wound complications following resection of lower extremity soft tissue sarcomas. *Arch Surg Oncol.* 2017;3:4. doi:10.4172/2471-2671.1000128.
11. Bedi M, King DM, Mendez C, Slawski B, Charlson JA, Hackbarth DA, **Neilson JC**. Postoperative day 1 glucose may be associated with wound complications in sarcomas treated with preoperative radiation. *Clin Orthop Relat Res.* 2018;Mar;476(3):580-586.
12. Bedi M, King DM, deVries J, Hackbarth DA, **Neilson JC**. Does vacuum-assisted closure reduce the risk of wound complications in patients with lower extremity sarcomas treated with preoperative radiation? *Clin Orthop Relat Res.* 2019;Apr;477(4):768-774.
13. Redifer Tremblay K, Lea WB, **Neilson JC**, King DM, Tutton SM. Percutaneous cryoablation for the treatment of extra-abdominal desmoid tumors. *J Surg Oncol.* 2019;Jun. doi:10.1002/jso.25597.
14. LoGiudice JA, Yan JG, Massey BL, **Neilson J**, Flugstad N, Mann J. Feasibility of a bone and soft tissue chimeric anterolateral thigh free flap? Anatomic study and report of two cases for oral cavity reconstruction. *J Plast Reconstr Aesthet Surg.* 2018 05;71(5):729-735.

15. **Neilson JC**, Benevenia J. Foot and ankle tumors Orthopaedic Knowledge Update: Foot and Ankle 5. 1 January 2018:249-264.
16. Stemm M, Beck C, Mannem R, **Neilson J**, Klein MJ. Dedifferentiated chondrosarcoma of bone with prominent rhabdoid component. *Ann Diagn Pathol.* 2017 Jun;28:7-11.
17. Lea WB, **Neilson JC**, King DM, Tutton SM. Minimally Invasive Stabilization Using Screws and Cement for Pelvic Metastases: Technical Considerations for the Pelvic "Screw and Glue" Technique. *Semin Intervent Radiol.* 2019 Aug;36(3):229-240. PMID: PMC6699961

Books, Chapters, and Reviews

1. **Neilson J**, Benevenia J. Foot and ankle tumors. In: Chiodo CP, Thomas RL, Cohen BE, Jeng CL, Lin SS, Haskell A, Ishikawa SN, editors. *Orthopaedic knowledge update: foot and ankle 6.* 6th ed. Rosemont (IL):American Academy of Orthopaedic Surgery; in press.
2. **Neilson J**, Benevenia J. Foot and ankle tumors. *Orthopaedic knowledge update: foot and ankle 5.* Rosemont (IL):American Academy of Orthopaedic Surgery. 2014.

Abstracts

1. Bedi M, King D, Prah M, Baynes K, Mautz A, Hackbarth D, **Neilson JC**, Charlson J, Wang D, Paulson E. Evaluation of neoadjuvant therapy response in adult soft tissue sarcoma using dynamic contrast-enhanced MRI. *Int J Radiat Onc Biol Phys.* 2013;Oct 1;87(25):S3082.