

Curriculum Vitae

Brian Downie, PA-C, M.S.

**Associate Chief Physician Assistant – Office of Clinical Affairs
Lead Advanced Practice Provider & Physician Assistant - Department of
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Education

10/'14-5/'15	PASQUAL (Certificate of Completion) (Patient Safety & Quality Leadership Scholars Program). The University of Michigan Medical School, Department of Learning Health Sciences.
8/'05–4/'07	Master of Science. (OJOC) Clinical Research Design and Statistical Analysis (CRDSA), University of Michigan, School of Public Health, Department of Biostatistics. Ann Arbor, Michigan (Graduated April 27, 2007).
8/'97-9/'98	Physician Assistant Surgical Residency. Spectrum-Health/Western Michigan University PA Surgical Residency, Grand Rapids, Michigan (Graduated September 1998). (Electives completed in Cardiothoracic and Orthopaedic surgery).
8/'95-8/'97	Bachelor of Science in Medicine. Physician Assistant Program, Western Michigan University, Kalamazoo, Michigan (Graduated, August 1997).
8/'92-6/'94	Master of Arts. Athletic Training, Western Michigan University, Kalamazoo, Michigan (Graduated, June 23, 1994).
8/'87-3/'92	Bachelor of Science. Exercise Science, Athletic Training Emphasis, Michigan State University, East Lansing, Michigan (Graduated March 14, 1992).

Additional Training:

2020	Leadership Academy – University of Michigan Medical School – Faculty Development (Cohort 35). March 2020
2018	Leading Change Practicum – Learning Health Sciences
2017	Leading Successfully at Michigan Medicine – Human Resources (HUMA-20061)

Certification/Licensure

1997-Present	Physician Assistant License, State of Michigan (License # 5601002817)
2002-Present	DEA Controlled Substance Registration, State of Michigan (Michigan Controlled Substance License)
1997-Present	NCCPA Certified. Certified December 1997, with current Michigan licensure (Certification Expires 12/31/2020)

- 1996-Present **Basic Life Support (BLS).** (Expires 8/2021)
- 1992-2010 **Board of Certification, Athletic Training (NATA/BOC).** Certified February 9, 1992. Certification Lapsed 2011. (Certification # 05902392).

Academic and Clinical Appointments

- '98-'11 &
2014-Present **Physician Assistant (PA-C).** Department of Orthopaedic Surgery. MedSport, Michigan Medicine.
- 2003-Present **Part-time Lecturer.** Eastern Michigan University, College of Education, School of Health and Human Performance.
- '07-'11 &
2014-Present **Clinical Research.** Department of Orthopaedic Surgery – MedSport, Michigan Medicine.
- 2011-2014 **Physician Assistant (PA-C).** Department of Radiology, MSK & Chest Interventional Radiology, Michigan Medicine.
- 2011-2014 **Clinical Research.** Department of Radiology, MSK Interventional Radiology, Michigan Medicine.
- 1997-1998 **Physician Assistant Surgical Resident.** Spectrum-Health/Western Michigan University PA Surgical Residency, Grand Rapids, Michigan (Graduated, September 1998)
- 1994–1995 **Certified Athletic Trainer.** K-Valley Orthopedics & S. W. Michigan Sports Medicine
- 1992-1994 **Graduate Assistant Athletic Trainer (Certified).** Western Michigan University
- 1990, 1991 **Detroit Lions Professional Football Organization.** Student athletic trainer

Administrative Appointments

- 2018-Present **Associate Chief Physician Assistant –** Office of Clinical Affairs, Michigan Medicine.
- 2015-Present **Lead Advanced Practice Provider.** Department of Orthopaedic Surgery, Michigan Medicine.
- 2007-2011 **Interim, Lead Physician Assistant.** Department of Orthopaedic Surgery, Michigan Medicine

2001-2002 **Director/Developer - First Annual MedSport Sports Medicine Symposium.** "Surgical and rehabilitative approaches to the knee and shoulder"

Research Interests

Patient Safety and Quality in Health Care as well as clinical and outcomes research involving the knee, hip and shoulder.

Honors and Awards

2010 **O'Donoghue Sports Injury Research Award** – American Orthopaedic Society for Sports Medicine. "When Do Rotator Cuff Repairs Fail? Serial Ultrasound Examination after Arthroscopic Repair of Large and Massive Rotator Cuff Tears". Bruce S. Miller MD, MS, **Brian K. Downie PA-C, MS**, Robert B. Kohen MD, Theresa G. Kijek BS, Bryson P. Lesniak MD, Jon A. Jacobson MD, James E. Carpenter MD

2007 **Gerald A O'Connor M.D. Team Member of the Year Award.**
Department of Orthopaedic Surgery- MedSport.

1995 **Dean's List.** Western Michigan University Physician Assistant Program.

1991 **Student Athletic Trainer of the Year.** Michigan State University.

Professional Organizations

2015 – Present Michigan Academy of Physician Assistants (MAPA)

1995 – Present Fellow, American Academy of Physician Assistants (AAPA)

2016 – Present Physician Assistants in Orthopaedic Surgery (PAOS)

Peer-Review Service

2015-Present JB&JS Journal of Orthopaedics for Physician Assistants
(JBJS/JOPA)

2007-2011 Infection Control and Hospital Epidemiology

Teaching

2003-Present	Part-time Lecturer. Eastern Michigan University, College of Education, School of Health Promotion and Human Performance, Athletic Training Program
2004-Present	PA Student Preceptor, Physician Assistant Students (Multiple Universities: 9/2016, 10/2017, 2/2018, 2019, 2020)
2019	Introduction to Imaging of Bony Injury in Sports. Presented to MedSport Sports Medicine Program (PTs/ATCs). April 5, 2019.
2003	“Examination of the Hip”. University of Michigan-MedSport 2 nd Annual Sports Medicine Symposium, Presented April 10, 2003
2000	“Post-Operative Issues in Outpatient Orthopaedic Surgery”. Presented to MedSport Physical Therapy. August 17, 2000
2000	“Physician Assistants”. Presented to undergraduate students at the University of Michigan. March 2000
1995	Teaching assistant. Western Michigan University, Physician Assistant program
1992-1994	In-service Instructor. Western Michigan University, Athletic Training program

Committee and Organizational/Community Service

2019-Present	Chair - PA Professional Development Model Committee. Michigan Medicine.
2019-Present	PA/NP Organizational Structure Workgroup. Michigan Medicine
2019-Present	CDS (Clinical Decision Support) Radiology Steering Committee. Michigan Medicine
2017-Present	Michart Clinical Advisory Committee (MCAC)
2015-Present	Co-Chair Quality Committee. Department of Orthopaedic Surgery. Michigan Medicine (Dr. Jeff Lawton faculty chair).
2019-2020	University Hospital/Cardiovascular Center Quality and Patient Safety Committee. Michigan Medicine
2015-2019	Patient Care Committee. Department of Orthopaedic Surgery. Michigan Medicine.

2015-Present	PA Council. Council of PA leaders promoting the Physician Assistant profession and practice at Michigan Medicine.
2014-2016	PA Week Committee. Michigan Medicine.
2011-2013	Board of Directors – Membership Chair. Fairway Farms Swim and Tennis Club. Livonia MI
2001-2005	Marketing Committee. Assisted with all marketing ventures for University of Michigan – MedSport
1996	Senior Class Representative to Chairperson Search Committee. Western Michigan University PA program
1995-1997	Student Representative. Western Michigan University to AAPA House of Delegates
1995-1997	Student Representative. Western Michigan University to MAPA

Extramural Invited Presentations

2018	Evaluation and Management of Acute Knee and Shoulder injuries. Brian K Downie, PA-C, MS. Presented to Michigan Council of Nurse Practitioners 2018 Annual Meeting, Detroit, MI.
2014	Platelet Rich Plasma (PRP) and tendinopathy: Efficacy or Illusion. Brian Downie, PA-C, MS. Presented to 2014 Annual Michigan Academy of Physician Assistants Fall CME Conference, Traverse City Michigan.
2012	Femoral Acetabular Impingement: Where we stand. Brian Downie, PA-C, MS. Presented to 2012 Annual Michigan Academy of Physician Assistants Fall CME Conference, Traverse City Michigan.
2011	Evaluation and Acute Management of Common Shoulder, Knee and Ankle injuries. Brian K Downie, PA-C, MS. Presented to Michigan Council of Nurse Practitioners 2011 Annual Meeting, Ypsilanti, MI.
2010	“When Do Rotator Cuff Repairs Fail? Serial Ultrasound Examination after Arthroscopic Repair of Large and Massive Rotator Cuff Tears” Bruce S. Miller MD, MS, Brian K. Downie PA-C, MS, Robert B. Kohen MD, Theresa G. Kijek BS, Bryson P. Lesniak MD, Jon A. Jacobson MD, James E. Carpenter MD. Podium presentation by Bruce S. Miller, 2010 American Orthopaedic Society for Sports Medicine Annual Meeting
2010	“Surgical Versus Non-Surgical Management of Rotator Cuff Tears in Older Individuals”. Miller BS, Yacob A, Downie BK, Kijek T, Carpenter

- JE. Podium presentation by Miller BS. 2010 Annual Michigan Orthopaedic Society meeting, Mackinac Island, Michigan, June 19, 2010
- 2009 **“Clinical outcomes following the microfracture procedure: A longitudinal data analysis”**. Miller BS, Steadman JR, Briggs KK, **Downie, B.** Podium presentation by KK Briggs. 8th World Congress of the International Cartilage Repair Society. Miami, Florida, May 23-26, 2009
- 2007 **“Tendinopathy: Pin Firing”**. Brian Downie, PA-C, MS. Carolina Health System, Physical Therapy Skills Day, Charlotte North Carolina, April 2007
- 2005 **“Complications of Medial Opening Wedge High Tibial Osteotomy”**. Miller, Bruce. Downie, Brian. Wojtys, Edward. McDonough, Barry. Podium presentation by Dr. E.Barry McDonough, American Orthopaedic Society for Sports Medicine, May 2005
- 2000 **“ATC to PA-C, Dual Credentials in Medicine”**. Albion College Athletic Training program
- 1993 **Proprioceptive Neuromuscular Facilitation**. Hope College, Athletic Training program

Bibliography

Peer-Reviewed Publications

- 2019 Collins, Larry; **Downie, Brian**; Hazzard, Sean; Dowell, Charles; Cloutier, Dagan. “Sports Medicine Roundtable: Graft Selection for Anterior Cruciate Ligament Reconstruction.” JBJS Journal of Orthopaedics for Physician Assistants. 7(1):e5, January-March 2019.
- 2017 Cloutier, Dagan; Hazzard, Sean; Dowell, Charles; **Downie, Brian**; Collins, Larry. “Sports Medicine Roundtable: Management of a Chronic Retracted Rotator Cuff Tear in a Middle-Aged Women with Intact Articular Cartilage.” JBJS Journal of Orthopaedics for Physician Assistants. 5(1):e5, January-March 2017.
- 2016 **Brian Downie, PA-C, MS.** “Procedures in Orthopedics: An Alternate Technique for Fluoroscopic Elbow Injections.” Journal of Orthopaedics for Physician Assistants (JOPA) Vol. 3 (2), 11-12.
- 2014 Germanuel L Landfair, **Brian K Downie**, Theresa Kijek, Bruce S. Miller. “Paper versus Electronic Data Collection in a Shoulder Disorders Research Registry.” World Journal of Orthopaedics (Submitted 1/23/14)
- 2014 Jon A. Jacobson, Mary M. Chiavaras, Jason Michael Lawton, **Brian**

- Downie**, Corrie M. Yablon, Jeffrey Lawton. "Radial Collateral Ligament of the Elbow: Ultrasound Characterization with Cadaveric Dissection Correlation and MR Arthrography." J Ultrasound Med. 2014 Jun;33(6):1041-8
- 2013 Corrie M Yablon, Jim S. Wu, Lori R. Newman, **Brian Downie**, Mary G. Hochman, Ronald L. Eisenberg. "A Needs Assessment of Musculoskeletal Fellowship Training: A Survey of Practicing Musculoskeletal Radiologists." Am J Roentgenol. 2013 Apr;200(4):732-40
- 2013 Palmieri-Smith RM, Villwock M, **Downie B**, Hecht G, Zernicke R. Pain and effusion and quadriceps activation and strength. J Athl Train. 2013 Mar-Apr;48(2):186-91
- 2013 Asheesh Bedi, Ramesh C. Srinivasan, Michael J. Salata, **Brian Downie**, Jon A. Jacobson, Edward M. Wojtys. "Structural and functional analysis of the semitendinosus tendon after harvest for soft tissue reconstructive procedures: a dynamic ultrasonographic study". Knee Surg Sports Traumatol Arthrosc (2013) 21:606–614
- 2012 **Brian K. Downie, PA-C, M.S.**, Bruce S. Miller, MD, M.S. "Treatment of Rotator Cuff Tears in Older Individuals: A Systematic Review". J Shoulder Elbow Surg (2012) 21, 1255-1261
- 2012 Asheesh Bedi, Robert M. Zbeda, Vinicius F. Bueno, **Brian Downie**, Mark Dolan, Bryan T. Kelly. "Heterotopic Ossification after Hip Arthroscopy for Femoroacetabular Impingement". Am J Sports Med. 2012 Apr;40(4):854-63
- 2011 Bruce S. Miller, **Brian K. Downie**, Paul W. Schmidt, Steve Nordwall, Phil D. Johnson, Jon A. Jacobson, James E. Carpenter. "Time to return to play after high ankle sprain in collegiate football players: A prediction model". Sports Health. 2012 Nov;4(6):504-9
- 2011 Bruce S Miller, **Brian K Downie**, Robert Kohen, Bryson Lesniak, Jon Jacobson, Richard Hughes, James Carpenter. "When Do Rotator Cuffs Fail? Serial Ultrasound Examination After Arthroscopic Repair of Large and Massive Rotator Cuff Tears". Am J Sports Med. 2011 Oct;39(10):2064-70
- 2011 Erik I Waldorff, James Lindner, Theresa G Kijek, **Brian K Downie**, Richard E Hughes, James E Carpenter, Bruce S Miller. "Bone Density of the Greater Tuberosity is Decreased in Rotator Cuff Disease With and

Without Full-Thickness Tears". J Shoulder and Elbow Surgery (2011) 20, 904-908

- 2010 Scibek JS, Mell AG, **Downie BK**, Palmieri-Smith R, Hughes RE. "Impact of Pain on Shoulder Elevation Velocity in patients with Rotator Cuff Tears". Journal of Musculoskeletal Research, Accepted for publication with revisions 5/19/2010
- 2010 Miller BS, Briggs KK , **Downie B**, Steadman JR. "Clinical outcomes following the Microfracture Procedure for Chondral Defects of the Knee: a Longitudinal Data Analysis". *Cartilage* 2010, 1;108
- 2009 Miller BS, **Downie BK**, McDonugh B, Wojtys EM. "Complications after Medial Opening Wedge High Tibial Osteotomy". *Arthroscopy*, Vol 25 (6), 2009: pp 639-646
- 2009 **Downie, BK**. "Diagnostic Imaging Review: Knee pain and an abnormal xray in a downhill skier". *JAAPA* 2009;22(2), 59-60
- 2008 Scibek JS, Mell AG, **Downie BK**, Carpenter JE, Hughes RE. "Shoulder Kinematics in patients with full-thickness rotator cuff tears after a subacromial injection". *JSES* 2008;17(1), 172-181

Poster Presentations

- 2011 **"Time to return to play after high ankle sprain in collegiate football players: A prediction model"**. Bruce S. Miller, **Brian K. Downie**, Paul W. Schmidt, Steve Nordwall, Phil D. Johnson, Jon A. Jacobson, James E. Carpenter. Best Poster in shoulder and elbow category. AOSSM 2011 Annual Meeting, San Diego, California July 7-10
- 2011 **"Surgical versus Non-Surgical Management of Rotator Cuff Tears in Older Individuals"**. Bruce S. Miller,MD; Theresa G. Kijek, BS; Brian K Downie,PA-C, MS; Alem Yacob, MD; James E Carpenter, MD. 2011 AAOS Annual Meeting, San Diego, California February 15-19
- 2010 **"When do Rotator Cuff Repairs Fail? Serial Ultrasound Examination of Large to Massive Rotator Cuff Repairs"**. Kohen R, **Downie B**, Kijek T, Bryson L, Jacobson J, Hughes R, Carpenter J, Miller B. 2010 Annual Michigan Orthopaedic Society meeting, Mackinac Island, Michigan June 2010
- 2009 **"Bone Density of the Greater Tuberosity is Decreased in Rotator Cuff Disease With and Without Full-Thickness Tears"**. Waldorff EI, Lindner J, Kijek TG, **Downie BK**, Hughes RE, Carpenter JE, Miller BS.

Accepted 12/8/2009 56th Annual Meeting of the Orthopaedic Research Society, New Orleans, Louisiana, March 2010

2005

“Complications of Medial Opening Wedge High Tibial Osteotomy”.

Miller, Bruce. **Downie, Brian.** Wojtys, Edward. McDonough, Barry.

Poster presented at the American Orthopaedic Society for Sports Medicine Annual Conference, May 2005