

## **Lori A Michener, PhD, PT, ATC, SCS, FAPTA**

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Division of Biokinesiology and Physical Therapy  
University of Southern California  
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### **LICENSURE**

National Athletic Trainer's Association Certification (#21084)  
Physical Therapy: California (#42380), Virginia (#2305003532)

### **EDUCATION**

2001 Ph.D. Orthopedic Physical Therapy; MCP Hahnemann University, Philadelphia, PA  
1988 B.S. Physical Therapy; SUNY at Buffalo, Buffalo, NY  
1985 M.Ed. Athletic Training; University of Virginia, Charlottesville, VA  
1984 B.S. General Studies; Lock Haven University, Lock Haven, PA

### **WORK EXPERIENCE**

2018 – Professor; Director of Clinical Outcomes and Research; Director of Research; Director COOR Lab; Division of Biokinesiology and Physical Therapy at the Herman Ostrow School of Dentistry, University of Southern California, Los Angeles, CA.  
2014 – 2018 Professor – Clinical Physical Therapy; Division of Biokinesiology and Physical Therapy at the Herman Ostrow School of Dentistry, University of Southern California, Los Angeles, CA  
2011 – 2014 Professor (tenured), Dept of Physical Therapy; School of Allied Health Professions, Virginia Commonwealth University - MCV, Richmond, VA.  
2009 – 2014 Affiliate Professor, Dept of Physical Medicine and Rehabilitation; School Medicine, Virginia Commonwealth University - MCV, Richmond, VA.  
2002 – 2014 Affiliate Professor; Dept of Anatomy and Neurobiology; School of Medicine, Virginia Commonwealth University - MCV, Richmond, VA.  
2007 – 2014 Director, International Partnership with Curtin Institute of Technology, Perth, Australia; Dept of International Education, Virginia Commonwealth University, Richmond, VA.  
2013 – External Board of Scientific Counselors; Still Research Institute, Mesa, AZ  
2006 – Adjunct Faculty; Dept of Interdisciplinary Health Sciences; Arizona School of the Health Sciences, Mesa, AZ  
2001 – Scientific Advisory Board; Expert Clinical Benchmarks, King of Prussia, PA.  
2000 – 2014 Staff Physical Therapist, Dept of OT/ PT, VCUHS, Richmond, VA.  
2007 – 2011 Associate Professor (tenured), Dept of Physical Therapy; School of Allied Health Professions, Virginia Commonwealth University – MCV, Richmond, VA.  
1999 – 2007 Assistant Professor, Dept of Physical Therapy; School of Allied Health Professions, Virginia Commonwealth University – MCV, Richmond, VA.  
1998 – 1999 Assistant Professor, Dept of Rehabilitation Sciences, MCP Hahnemann University, Philadelphia, PA.  
1995 – 1998 Lab Instructor and Teaching Assistant, Dept of Rehabilitation Sciences, MCP Hahnemann University, Philadelphia, PA.  
1997 – 1999 Staff Physical Therapist; Penn Therapy and Fitness - University of Pennsylvania Health Systems, Philadelphia, PA.

- 1988 – 1995 Assistant Professor; Dept of Health Sciences, Lock Haven Un, Lock Haven, PA.  
1988 – 1995 Athletic Trainer; Football, Soccer, Women's Basketball, and Softball; Lock Haven University, Lock Haven, PA.  
1991 – 1992 Staff Physical Therapist; Sports Physical Therapists, Inc. Wilmington, DE  
1989 – 1991 Staff Physical Therapist; Divine Providence Hospital, Williamsport, PA.

#### MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Physical Therapy Association -Research, Orthopedic, and Sports Sections  
American Society of Shoulder and Elbow Therapists  
National Athletic Trainers' Association  
California Physical Therapy Association

#### SPECIAL AWARDS, FELLOWSHIPS AND OTHER HONORS

- 2024 Paris Distinguished Service Award, Academy of Orthopaedic Physical Therapy, American Physical Therapy Association  
2023 Career Excellence in Biomechanics Research Award, Academy of Physical Therapy Research  
2022 Founders Award, American Society of Shoulder and Elbow Therapists  
2021 Marion Williams Award for Research in Physical Therapy, American Physical Therapy Association  
2019 *JOSPT* Guy G. Simoneau Excellence in Research Award.  
Young IA, Pozzi F, Dunning J, Linkonis R, **Michener LA**. Immediate and short-term effects of thoracic spine manipulation in patients with cervical radiculopathy: a randomized controlled trial. *J Orthop Sports Phys Ther.* 49(5):299-309, 2019.  
2015 Catherine Worthingham Fellow of the American Physical Therapy Association.  
2014 CAPES (the Coordenação de Aperfeiçoamento de Pessoal de Nível Superior) Prize:  
Sousa CO, **Michener LA**, Ribeiro IL, Reiff RB, Camargo PR, Salvini TF. Motion of the shoulder complex in individuals with isolated acromioclavicular osteoarthritis and associated with rotator cuff dysfunction: 3D shoulder kinematics and muscle activity. *JEK*, 2014.  
2013 Excellence in Research Award, Sports Section of the APTA.  
Shanley E, Kissenberth MJ, Thigpen CA, Bailey L, Hawkins RJ, **Michener LA**, Rauh MJ. Preseason shoulder ROM screening as a predictor of injury among youth, adolescent, and professional baseball pitchers. *J Shoulder Elbow Surg.* 24(7):1005-13, 2015.  
2011 Clint Thompson Award for Clinical Advancement, Journal of Athletic Training.  
**Michener LA**, Doukas WC, Murphy KP, Walsworth MK. Diagnostic accuracy of history and physical examination of SLAP lesions of the shoulder. *J Athl Train.* 46:343-348, 2011.  
2010 George J. Davies - James A. Gould Excellence in Clinical Inquiry Award, Journal of Orthopedic and Sports Physical Therapy.  
Tate AR, McClure PW, Young IA, Salvatori R, **Michener LA**. Comprehensive Impairment-Based Exercise and Manual Therapy Intervention for Patients With Subacromial Impingement Syndrome: A Case Series. *J Orthop Sports Phys Ther.* 40(8):474-493, 2010.  
2009 Clint Thompson Award for Clinical Advancement, Journal of Athletic Training.  
Snyder AR, Parsons JT, Valovich-McLeod TC, Bay RC, **Michener LA**, Sauers EL. Utilizing disablement models and clinical outcomes assessment to enable evidence-based athletic training practice: Part I: Disablement Models. *J Athletic Train.* 43(4):428-36, 2008.  
2004 New Investigator Award- *Nominee*, National Athletic Trainers' Association.  
1994 Sports Certified Specialist, American Board of Physical Therapy Specialties, Re-certified May, 2004, 2014.  
1998 Research Award, Pennsylvania Physical Therapy Association.

McClure PW, Karduna AR, **Michener LA**, Sennett BJ. Direct three-dimensional measurement of scapular kinematics during dynamic movements *in vivo*.

#### **CONSENSUS PANELS and WORKGROUPS**

- 2020 – 2023 Co-chair, Glenohumeral Joint Osteoarthritis Clinical Practice Guideline, American Physical Therapy Association.
- 2016 – 2020 Member, American Academy of Orthopaedic Surgeons (AAOS) Rotator Cuff Guideline Work Group
- 2014 – 2023 Member, National Athletic Trainers' Association Research Foundation
- 2009 – Panel member, ACOEM (Am College of Occupational and Environmental Medicine) EBP committee for "Shoulder Disorders"
- 2009 Expert Peer Reviewer, AHRQ panel report "Comparative effectiveness of non- operative and operative treatments for rotator cuff tears".
- 2009 Panel member, Scapular Summit 2009. Consensus Statement: Kibler WB, Ludewig PM, McClure PW, Uhl TL, Sciascia A. Scapular Summit 2009. J Orthop Sports Phys Ther. 39(11):A1-A13, 2009.
- 2007 – Clinical Guidelines Panel, Orthopedic Section of the American Physical Therapy Association; Clinical Practice Guidelines, Rehabilitation of Shoulder Disorders

#### **EDITORIAL REVIEW ACTIVITIES**

- 2019 – Editorial Board, Orthopedics Today
- 2016 – Associate Editor, Journal of Orthopaedic and Sports Physical Therapy
- 2009 – Editorial Board Member; British Elbow & Shoulder Society Journal: Shoulder & Elbow

#### **Manuscript Reviewer**

PLOS ONE  
British Medical Journal Open  
British Journal of Sports Medicine  
Journal of Shoulder and Elbow Surgery  
Journal of Physical Therapy  
Clinical Biomechanics  
Journal of Applied Biomechanics  
Arthritis Care and Research  
International Journal of Sports Physical Therapy  
Journal of Athletic Training  
Archives of Physical Medicine and Rehabilitation

#### **GRANTS**

##### **Current**

1. *Biomarkers of Tendon Recovery for Rotator Cuff Tendinopathy*  
Define tendon morphological changes with 4-week resistance exercise, how the associated muscle modulates tendon remodeling, and the relationship to patient-rated outcomes in patients with rotator cuff tendinopathy. Role: PI  
Foundation for Physical Therapy Research. \$100,000. 01/01/2023 – 12/31/2024
2. *Mechanisms of Exercise and Central Sensitization for Patients for Rotator Cuff Tendinopathy.*  
Identify central mechanisms using brain imaging related to beneficial functional outcomes of exercise in patients with rotator cuff tendinopathy. The findings will optimize delivery and treatment response to exercise. Role: Lead PI; (MPI: Michener/Kutch)

- The Charles D. and Mary A. Bauer Foundation. \$45,000. 09/1/2021 – 08/31/2024
3. *Biomechanical metrics to improve performance and reduce elbow injuries in baseball.* Define the moderating effect of modifiable physical factors on shoulder and elbow forces during pitching. The findings will be used to target physical factors for injury risk reduction and rehabilitation. Role: PI (MPI: Michener/Karduna)  
PAC-12 Student-Athlete Health and Well Being Grant. \$862,166. (NCE) 7/1/2019 – 6/30/2024
  4. *A simple and quantitative clinical assessment of neuromuscular recovery after ACL reconstruction.* A Phase 2 SBIR aimed at demonstrating that the leg dexterity test has clinical and scientific value to inform return to sports decisions for patients undergoing ACL reconstruction. Role: Co-PI (USC subaward) (MPI: Buchanan T/Shah JP/Valero E/Wren T)  
NIH-NIAMS; R44AR074859. \$1,587,568. 09/11/2020 – 08/30/2023
  5. *Mechanisms of Central Sensitization: A Study of Pain-free and Patients with Shoulder Pain.* Characterize central nervous system mechanisms with brain imaging of central sensitization in patients with shoulder pain. The findings will provide a foundation for new treatment paradigms to target centralized pain. Role: PI (MPI: Hegarty/Kutch/Michener).  
The Charles D. and Mary A. Bauer Foundation. \$55,500. 09/01/2019 – 08/31/2023

### Completed

1. *Ability of oral steroid (oxandrolone) to improve rotator cuff healing: a double-blind randomized pilot study.* This placebo controlled pilot study will determine if steroids can enhance healing rates and clinical outcomes in patients undergoing rotator cuff repair. Role: Co-I; (PI: Weber).  
Keck School of Medicine Dean's Pilot Funding Program. \$40,000. 02/01/2020 – 02/01/2023
2. *Shoulder Pain: Effects of Adherence to Practice Guidelines and Dose of Physical Therapy on Outcomes of Care SPEADO Project.* Characterize the effects of adherence to best practice on clinical outcomes for patients with shoulder pain. Role: PI (MPI: Michener/Thigpen).  
Orthopaedic Section of the APTA. \$29,787. 05/01/2017 – 4/30/2023
3. *Treatment of Full-thickness Rotator Cuff Tears with a Closed-Chain Stabilization Approach: Planning and Pilot Study for Feasibility and Efficacy.* Role: PI. Barbara Fried, Fried Companies, Inc. \$684,854. 2015 – 2022.
4. *Discriminant and predictive validity assessment of the Keele STarT MSK Tool for patients with musculoskeletal pain in outpatient physical therapy settings.* Determine the validity of an evaluation tool for risk stratification. These findings will inform use of this tool for musculoskeletal screening, to enable targeted individualized treatment to reduce the transition to chronic pain. Role: Co-I (PI: Beneciuk)  
Foundation for Physical Therapy Research. \$40,000. 01/01/2019 – 12/31/2021
5. *Evaluation of the Reach Virtual Reality System.* Determine the feasibility for evaluation and treatment in patients with shoulder pain. Role: PI (MPI: Michener/Finley)  
Triad Labs, New Concord, OH. \$18,750. 12/01/2020 – 05/01/2021
6. *A simple and quantitative clinical assessment of neuromuscular recovery after ACL reconstruction.* Phase 1 SBIR characterizing the feasibility of the leg dexterity test to inform return to sports decisions for patients undergoing ACL reconstruction. Role: Consultant (PI: Valero).  
NIH – NIAMS R43AR074859. \$224,900. 09/01/2019- 08/30/2020
7. *Optimization of Spinal Manual Therapy for Shoulder Pain.* Characterize the central nervous system mechanisms using brain imaging and identify predictors of a positive response to spinal manual therapy in patients with rotator cuff disease. The findings will optimize the delivery and treatment response to spinal manual therapy. Role: PI (MPI: Michener/Kutch)  
The Charles D. and Mary A. Bauer Foundation. \$49,979. 09/01/2018 – 8/31/2021
8. *Central Effects of Manual Therapy on Shoulder Pain.* Role: PI.  
Clinical and Translational Science Institute Voucher Award. \$3000. 08/1/2020 – 07/31/2021

9. *Risk Factors Associated with Upper Extremity Injuries in Baseball*. Identify multi-factorial risk factors of arm injuries to establish a foundation for prevention programs. Role: PI.  
Major League Baseball Research Grant. \$47,677. 09/01/2018 – 08/30/2019
10. *Shoulder Tendon Health in Dental Hygienist*. Characterize the effects of repetitive loading on shoulder tendon over a 2 year training period in novices. Role: PI.  
The Charles D. and Mary A. Bauer Foundation. \$25,000. 09/01/2017 – 08/30/2019
11. *Using Structural Health Monitoring to Improve Diagnosis and Treatment of Chronic Pain in U.S. Service Members: Translation to a Novel Handheld Device*. Evaluate the reliability, validity, and clinical utility of a novel cost-effective handheld device to assess muscle stiffness/ elasticity. Role: Co-I (PI: Koppenhaver).  
Telemedicine and Advanced Technology Research Center (TATRC) at the United States Army Medical Research and Development Command through the AMEDD Advanced Medical Technology Initiative (AAMTI). \$212,257. 07/01/2015 – 06/30/2017
12. *Does kinesiotaping effect scapular mechanics and subacromial space in people with scapular dyskinesis?* Role: Co-I (PI: Sevgi Sevi Subasi).  
Dokuz Eylul Un., Turkey; Dept Scientific Research Projects. \$35,000. 01/2014 – 01/2016
13. *Validation of a Clinical Prediction Rule to Identify Patients with Shoulder Pain Likely to Benefit from Cervicothoracic Manipulation: A Randomized Clinical Trial*. Role: Co-I (PI: Mintken).  
Orthopedic Section of the APTA. \$25,000. 05/01/2012 – 04/30/2014
14. *Effect of thoracic spinal manipulation on shoulder pain and kinematics of the thoracic spine and shoulder*. Identify biomechanical and pain sensitivity mechanisms of spinal manipulation for patients with shoulder pain. Role: PI.  
NIH – NCATS UL1TR000058 \$14,695. 09/01/2012 – 08/30/2014
15. *Interprofessional Polytrauma and Brain Injury Rehabilitation Research Fellowship*. Role: Co-Mentor (Ericksen/Michener). Fellow: Mark Timmons, PhD, ATC.  
Department of Veterans Health Administration. 2009 – 2012.
16. *Randomized Clinical Trial of Rehabilitation for Subacromial Impingement Syndrome*. Determine the effects of exercise and manipulation for patients with rotator cuff tendinopathy. Role: PI (MPI: Thigpen/Michener).  
Brooks Rehabilitation Foundation. \$114,626. 07/01/2008 – 06/30/2010
17. *Identification of Risk Factors for Shoulder Pain in Swimmers Across the Lifespan*. Role: Consultant (PI: Tate).  
United States Masters Swimming Endowment Fund. \$16,893. 02/01/2008 – 01/31/2009
18. *Effectiveness of Rehabilitation for Subacromial Impingement Syndrome*. Determine the effects of exercise and manipulation for patients with rotator cuff tendinopathy. Role: PI.  
National Athletic Trainers' Association Research Foundation. \$197,197. 7/1/2007 – 6/30/2010
19. *Reliability and discriminate validity of ultrasonographic measurement of the subacromial space in patients with rotator cuff disease*. Characterize the ability of ultrasound to define the subacromial space in patients with rotator cuff disease. Role: PI  
AD Williams Internal Research Grant, VCU. \$14,960. 09/01/2007 – 08/30/2008
20. *Reliability and discriminate validity of ultrasonographic measurement of the subacromial space in patients with rotator cuff disease*. Role: PI.  
Faculty Research Grant, Dept of Physical Therapy, VCU. \$1,000. 09/01/2006 – 08/30/2007
21. *Conservative Treatment of Cervical Radiculopathy: A Randomized Clinical Trial*. Determine the clinical benefit of physical therapy in patients with cervical radiculopathy. Role: Co-I (PI: Young).  
Saunders Group Inc. \$28,000. 07/01/2006 – 06/30/2008
22. *Effectiveness of the VAX-D Protocol for Chronic Low Back Pain: A Case Series Design*. Role: Co-I (PI: Nelson).  
Independence Blue Cross of Pennsylvania. \$1.3 million. 2000 – 2004
23. *Reliability and Validity of Scapular Muscle Performance Testing*. Role: PI.

- Faculty Research Grant, Dept of Physical Therapy, VCU. \$1,000. 09/01/2000 – 08/30/2001
24. *Mechanisms Associated with Shoulder Impingement Syndrome*. Role: Co-I (PI: McClure).  
Arthritis Foundation, New Investigator Award, \$50,000. 1998 – 2000
  25. *Relationships between impairments, 3D kinematics, functional limitations, and disability in patients with subacromial impingement*. Role: PI.  
National Athletic Trainers' Association Research Foundation, \$2,500. 05/01/1998 – 04/30/1999
  26. *Effects of a six-week physical therapy treatment for shoulder impingement*. Determine the effects of physical therapy for patients with rotator cuff tendinopathy. Role: PI.  
Foundation for Physical Therapy Doctoral Research Award, \$6,000. 09/01/1997 – 08/30/1998
  27. APTA Doctoral Scholarship Award: selected but not funded; August, 1996.

#### **Career Development:**

1. Career Enhancement in Spinal Rehabilitation. PA State System of Higher Education Faculty Professional Development Council Grant, \$8,360. 1994.
2. Lumbar Functional Stabilization. Lock Haven University Faculty Professional Development Council Grant, \$9,420. 1993.
3. Career Enhancement in Sports Medicine. PA State System of Higher Education Faculty Professional Development Council Grant, \$6,225. 1991.

#### **Advisory Board:**

1. Operative versus non-operative treatments for atraumatic rotator cuff tears: a multicenter randomized controlled trial. Role: Advisory Board. PI: Nitin Jain, MD, MPH (Vanderbilt University). NIAMS. 1U34AR069201-01A1 \$197,500. 2016 – 2017.
2. Operative versus non-operative treatments for atraumatic rotator cuff tears: a multicenter randomized controlled trial. Role: Advisory Board. PI: Nitin Jain, MD, MPH (Vanderbilt University). PCORI. \$7,515,928. 2017 – 2022.

#### **PEER-REVIEWED PUBLICATIONS**

##### **In review/ revision:**

1. Barrack AJ, Sakurai M, Lobb NJ, Wee CP, Diaz PR, Karduna AR, **Michener LA**. Physical Factors can Moderate Elbow Varus Torque in Collegiate Baseball Pitchers. *In Review*.
2. Zeitelhack AM, Bucci KY, Lobb NJ, Karduna AR, **Michener LA**. Hip Abduction Neuromuscular Capacity Influences Velocity in Baseball Pitchers. *In Review*.

##### **Published:**

3. Beneciuk JM, Michener LA, Sigman E, Harrison T, Buzzanca-Fried KE, Lu X, Shan G, Hill JC. Validation of the Keele STarT MSK Tool for Patients with Musculoskeletal Pain in United States-Based Outpatient Physical Therapy Settings. *J Pain*. On line ahead of print, January, 2024.
4. Giordano KA, Barrack AJ, Murrah WM, Karduna AR, **Michener LA\***, Wasserberger KW\* (\*shared last author). Usage and acceptability of data normalization in baseball pitching. *Sports Biomechanics*. Jan (12):1-12, 2024.
5. **Michener LA**, McClure PW, Tate AR, Bailey LB, Seitz AL, Straub RK, Thigpen CA. Adding manual therapy to an exercise program improves long-term patient outcomes over exercise alone in patients with subacromial shoulder pain: randomized clinical trial. *JOSPT Open*. 2(1):29-39 2023.
6. Stubbs C, McAuliffe S, Chimenti RL, Coombes BK, Haines T, Heales L, de Vos R-J, Lehman G, Mallows A, **Michener LA**, Millar NL, O'Neill S, O'Sullivan K, Plinsinga M, Rathleff M, Rio E, Ross M, Roy J-S, Silbernagel KG, Thomson A, Trevail T, Akker-Scheek I, Vicenzino B, Vlaeyen JWS, Pinto RZ, Malliaras P. Which psychological and psychosocial constructs are important to

- measure in future tendinopathy clinical trials? A modified international Delphi study with expert clinician/researchers and people with tendinopathy. *JOSPT*. 54(1):14-25, 2023.
7. Rodrigues da Silva Barros B, Dal'Ava AD, de Medeiros Neto JF, **Michener LA**, Silva RS, Sousa CO. Isometric versus isotonic exercise in individuals with rotator cuff tendinopathy - effects on shoulder pain, functioning, muscle strength, and electromyographic activity: a protocol for randomized clinical trial. *PLoS One* 18(11):e0293457, 2023
  8. Vila-Dieguez O, Heindel MD, Awokuse D, Kulig K\*, **Michener LA\*** (\*shared last author). Mechanisms of resistive exercise in rotator cuff tendinopathy. *Shoulder Elbow*. June;15(3):233-249, 2023.
  9. Sakurai M\*, Barrack AJ\*, Lobb NJ, Wee CP, Diaz PR, **Michener LA**, Karduna AR (\*shared first author). Collegiate baseball pitchers demonstrate a relationship between ball velocity and elbow varus torque, both within and across pitchers. *Sports Biomech*. Apr28:1-9, 2023.
  10. Hohenschurz-Schmidt D, Vase L, Scott S, Annoni M, Barth J, Bennell K, Renella CB, Bialosky J, Braithwaite F, Finnerup NB, C Williams AC, Carlino E, Cerritelli F, Chaibi A, Cherkin D, Colloca L, Côte P, Darnall BD, Evans R, Fabre L, Faria V, French S, Gerger H, Häuser W, Hinman RS, Ho D, Janssens T, Jensen K, Lunde SJ, Keefe F, Kerns RD, Koechlin H, Kongsted A, **Michener LA**, Moerman D, Musial F, Newell D, Nicholas M, Palermo TM, Palermo S, Pashko S, . Peerdeman KJ, Pogatzki-Zahn EM, Puhl AA, Roberts L, Rossetini G, Johnston C, Matthiesen ST, Underwood M, Vaucher P, Wartolowska K, Weimer K, Werner CP, Rice ACS, Draper-Rodi J. Recommendations for the Development, Implementation, and Reporting of Control Interventions in Efficacy and Mechanistic Trials of Physical, Psychological, and Self-Management Therapies - The CoPPS statement. *BMJ*. 381,e072108, 2023.
  11. **Michener LA**, Heitzman J, Abbruzzese LD, Bondoc SL, Bowne K, Henning PT, Leggin BG, Lucado AM, Seitz AL. Physical Therapist Management of Glenohumeral Joint Osteoarthritis: A Clinical Practice Guideline from the American Physical Therapy Association. *Phys Ther*. 103:1-18, 2023.
  12. Bullock GS, Thigpen CA, Martin CL, Loscaiale J, **Michener LA**, Whiteley R, Waterman BR, Tokish JM, Camp C, Shanley E. Shoulder range of motion measurements in overhead athletes: Ambiguity in scientific models approach, and execution is hurting overhead athlete health. *Arthrosc Sports Med Rehabil*. 5(1):e297-304, 2023.
  13. Sousa CO, Nascimento JDS, Pozzi F, Kardouni JR, **Michener LA**. Shoulder Performance Activity Test (SPAT) for people with shoulder pain: feasibility, reliability and validity. *Phys Ther*. 103:1-10, 2023.
  14. Patel VV, Sawyer EE, Mintken PE, **Michener LA**, Cofer CL, Lindley EM. Initial Validation of a Joint-Specific Disability Questionnaire. *Orthopedics*. May2:1-7, 2023.
  15. Lobb N, Lu J, Long E, Diaz PR, Chow K, **Michener LA**. Sonographic morphological and qualitative deficits in the elbow ulnar collateral ligament and ulnohumeral joint in throwing arms of asymptomatic collegiate baseball pitchers. *Skeletal Radiol*. 52(1):31-37, 2023.
  16. Plummer HA, Zhong T, Hostetter G, Brice T, Chien A, Sum JC, Hawkins A, Li B, **Michener LA**. Hip Abductor Strength Asymmetry: Relationship to Upper Extremity Injury in Professional Baseball Players: A Pilot Study. *Sports Health*. 15(2):295-302, 2023.
  17. Lantz JM, Roberts C, Formanek BA, **Michener LA**, Hah RJ, Wang JC, Buser Z. Incidence of Complications Associated with Cervical Spine Surgery and Post-operative Physical Therapy and Implications for Timing of Initiation of Post-operative Physical Therapy: A Retrospective Database Study. *Eur Spine J*. 32(1)382-388, 2023.
  18. Failla MJ, Mintken PE, McDevitt AW, **Michener LA**. Trajectory of Patient-rated Outcomes and Association with Patient Acceptable Symptom State in Patients with Musculoskeletal Shoulder Pain. *J Man Manip Ther*. 31(4):279-286, 2023.

19. Klich S., Madeleine P., Ficek K., Sommer K., Fernández-de-las-Peñas C., **Michener LA.**, Kawczyński A. Functional and Morphological Changes in Shoulder Girdle Muscles After Repeated Climbing Exercise. *Res Sports Med.* 31(6):787-801, 2023.
20. Klich S, Kawczynski A, Sommer K, Danek N, Fernandez-de-Las\_Penas C, **Michener LA**, Madeleine P. Stiffness and thickness of the upper trapezius muscle increase after repeated climbing bouts in male climbers. *PeerJ.* Dec:10:e14409, 2022.
21. Chia L, Taylor D, Pappas E, Hegedus EJ, **Michener LA.** Beginning with the end in mind: Implementing backward design to improve sports injury rehabilitation practices. *J Orthop Sports Phys Ther.* 52(12):770-776, 2022.
22. Requejo-Salinas N, Lewis J, **Michener LA**, La Touche R, Fernandez-Matias R, Tercero-Lucas J, Camargo PR, Bateman M, Struyf F, Roy J-S, Jaggi A, Uhl T, Bisset L, Wassinger CA, Donatelli R, Haik MN, Lluch-Girbes E. International Physical therapists consensus on Clinical descriptor for diagnosing rotator cuff related shoulder pain: a Delphi study. *Braz J Phys Ther.* 26(2):100395, Mar-Apr, 2022.
23. Yesilyaprak SS, Yuksel E, Kalayci MG, Karabay N, **Michener LA.** Shoulder Kinesio Taping Does Not Change Biomechanical Deficits Associated with Scapular Dyskinesis. *J Appl Biomech.* Apr 1;38(2):95-102, 2022.
24. Plummer HA, Diaz PR, Plosser SM, Lobb N, **Michener LA.** Effectiveness of a Shoulder Exercise Program in Division 1 Collegiate Baseball Players During the Season. *Int J Sports Phys Ther.* 17(2):247-258, Feb, 2022.
25. Pozzi F, Sousa CO, Plummer HA, Andrade B, Awokuse D, Kono N, Mack WJ, Roll SC, **Michener LA.** Development of shoulder pain with job-related repetitive load: mechanisms of tendon pathology and anxiety. *J Shoulder Elbow Surg.* 31(2):225-234, 2022.
26. Hegarty AK, Hsu M, Roy J-S, Kardouni JR, Kutch JJ, **Michener LA.** Evidence for increased neuromuscular drive following spinal manipulation in individuals with subacromial pain syndrome. *Clin Biomech.* Sept 21;90:105485, 2021.
27. Kelly J, Koppenhaver S, **Michener LA**, Kolber M, Cleland J. Immediate Decrease of Muscle Biomechanical Stiffness following Dry Needling in Asymptomatic Participants. *J Bodyw Mov Ther.* Jul;27:605-611, 2021.
28. **Michener LA**, Barrack AJ, Liebeskind BY, Zerega RJ, Sum JC, Crotin RL, Plummer HA. Professional baseball players type and geographic origin impacts shoulder external and internal rotation strength. *Int J Sports Phys Ther.* 16(4):1126-1134, 2021.
29. Bogdanov JM, Bolia IK, Benvegnu N, **Michener LA**, Weber AE, Petrigliano FA. Rehabilitation following ulnar collateral ligament reconstruction in overhead throwing athletes. *JBJS Reviews:* 9(4):e20.00154, April 2021.
30. Zipser MC, Plummer HA, Kindstrand N, Sum JC, Li B, **Michener LA.** Hip Abduction Strength: Relationship to Trunk and Lower Extremity Motion During A Single-Leg Step-Down Task in Professional Baseball Players. *Int J Sports Phys Ther.* 16(2):342-349, 2021.
31. Stradford J, Sakhare A, Ravichandran R, Schroeder ET, **Michener LA**, Pa J. Conducting a VR Clinical Trial in the Era of COVID-19. *Front Virtual Real.* 29 April, 2021.
32. Lantz JM, Abedi A, Tran F, Cahill R, Kulig K, **Michener LA**, Hah RJ, Wang JC, Buser Z. The Impact of physical therapy after cervical spine surgery for degenerative spine disorders: A systematic review. *Clin Spine Surg.* Oct 1;34(8):291-307, 2021.
33. Hegarty AK, Yani MS, Albishi A, **Michener LA**, Kutch JJ. Saliency network functional connectivity is spatially heterogeneous across sensorimotor cortex in healthy humans. *Neuroimage.* 2020 Jul 20;221:117177. PMID: 32702484.
34. Weber S, Chahal J, Management of Rotator Cuff Injuries Work Group - Voting (Sraj SA, Matuszak JM, Seitz AL, **Michener LA**, Hutchinson MR, Shaffer MA, Li X, Albrecht MM, Schmidt CC, Kuhn J, Galatz L). Management of Rotator Cuff Injuries. *J Am Acad Orthop Surg.* 28(5):e193-e201, 2020.



35. Hegedus EJ, **Michener LA**, Seitz AL. Three key findings when diagnosing shoulder multidirectional instability: Patient report of instability, hypermobility, and specific shoulder tests. *J Orthop Sports Phys Ther.* 50(2):52-54, 2020.
36. Pozzi F, Plummer HA, Shanley E, Thigpen CA, Bauer C, Wilson ML, **Michener LA**. Pre-season screening of shoulder range of motion and in-season risk of shoulder and elbow injury in overhead athletes: a systematic review and meta-analysis. *Br J Sports Med.* Sept;54(17):1019-1027, 2020.
37. Pozzi F, Plummer HA, Sanchez N, Lee Y, **Michener LA**. Electromyography activation of shoulder and trunk muscles is greater during closed chain compared to open chain exercises. *J Electromyogr Kinesiol.* 18:S1050-6411, 2019.
38. Young IA, Pozzi F, Dunning J, Linkonis R, **Michener LA**. Immediate and short-term effects of thoracic spine manipulation in patients with cervical radiculopathy: a randomized controlled trial. *J Orthop Sports Phys Ther.* 49(5):299-309, 2019.
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#### **BOOKS, BOOK CHAPTERS, CONSENSUS STATEMENTS, NON-PIER REVIEWED**

1. Sum JS, **Michener LA**. Rehabilitation of Rotator Cuff Disorders – Chapter 24 of American Academy of Orthopaedic Surgeons (AAOS) Resident Curriculum. March, 2021.
2. Sum JS, **Michener LA**. Evaluation of Scapular Pathology in Athletes: What does the Literature Tell Us? American Academy of Sports Physical Therapy (AASPT) Home Study Course; Special Topics on the Overhead Athlete. March, 2021.
3. Cools AM, Ellenbecker TS, **Michener LA**. C16: Rehabilitation of Scapular Dyskinesis. Disorders of the Scapula and their Role in Shoulder Injury: A Clinical Guide to Evaluation and Management. Ed: Kibler WB & Sciascia AD., 2017.
4. **Michener LA**, McClure PW. Patient-Rated Outcome Measures for Shoulder Surgery and Rehabilitation, in textbook: “**Post Operative Rehabilitation**”, American Academy of Orthopedic Surgeons, 2016.
5. **Michener LA**. Chapter 10: What History and Physical Examination Diagnostic Tests Can Confirm and Screen Superior Labral Anterior-to-Posterior Lesions? *Quick Questions in the Shoulder*. Editor: Kellie Huxel Bliven. SLACK Inc; Thororfare, NJ, 2014.
6. Walsworth MK, **Michener LA**. Chapter 12: Which Clinical and Diagnostic Imaging Tests are most effective for Diagnosing Rotator Cuff Disease? *Quick Questions in the Shoulder*. Editor: Kellie Huxel Bliven. SLACK Inc; Thororfare, NJ, 2014.
7. American College of Occupational and Environmental Medicine (ACOEM): Shoulder Disorders. Hegmann KT, Hughes MA, Editors; Kaufman LA, Chair. Panel members: Green A, Haas NS, Hoffman H, Melhorn JM, **Michener LA**, Saechao K, Watson RW, Williams G, Zuckerman JD, 2011.
8. **Michener LA**, Seitz AL. Chapter 2: Classification of Shoulder Instability. In: Bonci T, Hardin A, **Michener LA**, Seitz AL. *Assessing and Rehabilitating Shoulder Instabilities 2.0*. 2<sup>nd</sup> Edition. Champaign, IL: Human Kinetics; 2009. ISBN: 9780736079471

9. **Michener LA**, Seitz AL. Chapter 3: Examination of the Shoulder. In: Bonci T, Hardin A, **Michener LA**, Seitz AL. *Assessing and Rehabilitating Shoulder Instabilities 2.0*. 2<sup>nd</sup> Edition. Champaign, IL:Human Kinetics; 2009. ISBN: 9780736079471
10. Consensus Statement: Kibler WB, Ludewig PM, McClure PW, Uhl TL, Sciascia A. Scapular Summit 2009. *J Orthop Sports Phys Ther.* 39(11):A1-A13, 2009.

## INVITED PRESENTATIONS

### Keynote / Distinguished Lectures

1. Keynote, International Congress of Shoulder and Elbow Therapist (ICSET) Meeting. *Biomarkers of Recovery in Patients with Rotator Cuff Tendon Disorders*. Rome, Italy; September 6, 2023.
2. Keynote, University of Florida Health Jacksonville Orthopaedic Residency Program. *Scapular Motion: Is there a Single Optimal Movement Pattern?* Virtual, Jacksonville, FL; January 21, 2021.
3. Keynote, American Academy of Orthopaedic Manual Physical Therapists (AAOMPT) Meeting. *What is Optimal Movement?* Orlando, FL; October 25, 2019.
4. Keynote, International Congress of Shoulder and Elbow Therapist (ICSET) Meeting. *SLAP Lesions: Update on Evaluation and Management*. Buenos Aires, Argentina; September 21, 2019.
5. Keynote, International Congress of Shoulder and Elbow Therapist (ICSET) Meeting. *Shoulder pain: symptoms or pathology*. Buenos Aires, Argentina; September 21, 2019.
6. Keynote, Irish Shoulder and Elbow Society Meeting. *Management of SLAP Lesions*. Dublin, Ireland; January 12, 2019.
7. Keynote, International Shoulder Group – International Society of Biomechanics. *Rotator Cuff Disorders: Mechanisms and Outcomes*. International Shoulder Group Meeting, Rochester, MN. August 13, 2018.
8. Keynote Lecture, 6<sup>th</sup> Biennial Emirates Physiotherapy Conference, Dubai, UAE. *Rotator Cuff Tendinopathy*. May 2, 2018.
9. Keynote Lecture, 6<sup>th</sup> Biennial Emirates Physiotherapy Conference, Dubai, UAE. *Role of the Scapula in Shoulder Pain*. May 3, 2018.
10. Keynote, Flemish Shoulder Network, Ghent, Belgium. *State of the Art and Science for Shoulder Pain*. December 13, 2017.
11. Keynote, Shoulder Network Congress, Brabantallen, Netherlands. *Role of Manual Therapy and Relevance of Physical Therapy for Patients with Shoulder Pain*. December 15, 2017.
12. Distinguished Lecture Series, Department of Physical Therapy, University of Chicago Illinois. *Treatment of Shoulder Pain: Consensus and Controversies*. November 14, 2014.
13. Keynote, *Thoracic Manipulation and Shoulder Pain*. British Shoulder and Elbow Society, Torquay, England; June 9, 2012.
14. Distinguished Alumni Lecture, US Army Baylor University Physical Therapy Program San Antonio, TX. *Rotator Cuff Tendinopathy: State of the Art*. June 7, 2011.

### International Presentations – Invited

1. Get Control of Shoulder Instability. 4<sup>th</sup> World Congress of Sports Physical Therapy, Nyborg, Denmark; August 27, 2022. (Tania Pizzari and Lori Michener)
2. Scapular Dyskinesia – What Does It Mean When I See It in the Clinic? Irish Shoulder and Elbow Society Meeting; January 12, 2019.
3. Rotator Cuff Disease: Mechanisms and Differential Diagnosis. Physiotherapy Alberta; February 15, 2018.
4. Role of Manual Therapy for Patients with Shoulder Pain. Shoulder Network Congress of the Netherlands, Den Bosch, Netherlands; December 15, 2017.
5. Controversies and Consensus for the Diagnosis and Management of Rotator Cuff Disease. Progress Education; Eindhoven, Netherlands; December 18, 2017.

6. Rotator Cuff Tendinopathy: Mechanisms and Management. World Congress of Physical Therapy, Cape Town, South Africa; July, 2017.
7. SLAP tears: diagnosis, management and return to play. International Congress of Shoulder and Elbow Therapists (ICSET), Jeju, Korea; May, 2016.
8. Scapula kinematics and the subacromial space: implications for rehabilitation. The French Society of Physiotherapy Meeting, Rehabilitation of the Shoulder (SFRE); Lille, France; February 7, 2015.
9. Mechanisms and Treatment Decision-making for Shoulder Pain; Federal University of São Carlos, São Carlos, SP, Brazil; Visiting Professor: April 3 – 9, 2014.
10. Manual Therapy in the Treatment of Rotator Cuff Disease. International Congress of Shoulder and Elbow Therapists (ICSET) 2013; Nagoya, Japan; April, 2013.
11. Scapular Dyskinesia and Scapular Symptom Alteration Tests. British Shoulder and Elbow Society, Torquay, England; June, 2012.
12. Thoracic Manipulation and Shoulder Pain. British Shoulder and Elbow Society, Torquay, England; June, 2012.
13. Shoulder Pain and Sports. British Shoulder and Elbow Society, Torquay, England; June, 2012.
14. Outcomes Seminar. 3<sup>rd</sup> International Congress of Shoulder and Elbow Therapists, Edinburgh, UK 2010.
15. Scapular dysfunction: what is the relevance to shoulder pain? 3<sup>rd</sup> International Congress of Shoulder and Elbow Therapists, Edinburgh, UK 2010.
16. Mechanisms of Subacromial Impingement Syndrome. Instituto Vita, São Paulo City, São Paulo, Brazil; October, 2008.
17. Physical Therapy Treatment of Patients with Subacromial Impingement Syndrome. Department of Physiotherapy, Federal University of São Carlos, São Paulo, Brazil; October, 2008.
18. Treatment of Subacromial Impingement Syndrome. II International Meeting of Knee Rehabilitation and the I International Meeting of Shoulder Rehabilitation, Campinas Tênis Club, Campinas, São Paulo, Brazil; November, 2008.
19. Shoulder Function and 3-dimensional Scapular Kinematics in People with and without Shoulder Impingement Syndrome. II International Meeting of Knee Rehabilitation and the I International Meeting of Shoulder Rehabilitation, Campinas Tênis Club, Campinas, São Paulo, Brazil; November, 2008.
20. Measurement of Shoulder Function – Use of Self-Report Outcome Measures. II International Meeting of Knee Rehabilitation and the I International Meeting of Shoulder Rehabilitation, Campinas Tênis Club, Campinas, São Paulo, Brazil; November, 2008.
21. Subacromial Impingement Syndrome. Curtin University of Technology, Perth, Australia; July, 2007.
22. Scapular Dyskinesia: Evaluation and Treatment. Graduate Certificate in Orthopaedic Manual Therapy at Curtin University of Technology, Perth, Australia; July, 2007.
23. Using Evidence-Based Medicine: Diagnosis and Treatment of a Patient with Shoulder Pain. Annual Physical Therapy Conference of the Netherlands, Amsterdam, Netherlands; November, 2006.
24. Questionnaires for Shoulder Functional Loss and Disability: Clinical Use. International Shoulder Congress of Shoulder Therapists and Surgeons, Washington, DC; May, 2004.

#### National and Regional Presentations – Invited and Seminars

1. Rotator Cuff Tendinopathy – Diagnosis and Management. Distinguished Guest Lecture; University of Florida Health Jacksonville Orthopaedic Residency Program. Jacksonville, FL; March 10, 2023.
2. Defining Tendon Structure and Neuromuscular Treatment Targets for Rotator Cuff Tendinopathy. Movement and Cognitive Rehabilitation Science Seminar, Department of Kinesiology and Health Education, The University of Texas at Austin. November 28, 2022.



3. How to Become a Pro at PROs (Patient-Reported Outcomes). Memorial Hermann Sports Medicine and Rehabilitation. Houston, TX; May 1, 2022.
4. Rehabilitation Management of Rotator Cuff Injuries. Memorial Hermann Sports Medicine and Rehabilitation. Houston, TX; April 30, 2022.
5. Clinical Practice Guideline: Update to Shoulder Pain and Mobility Deficits – Adhesive Capsulitis Combined Sections Meeting of the APTA; San Antonio, TX. February 3, 2022. (Ellen Shanley, Ameer Seitz, Craig Wassinger, Mat Fallia, Lori Michener)
6. Scapular Motion: Is there a Single Optimal Movement Pattern? University of Florida Health Jacksonville Orthopaedic Residency Program. Jacksonville, FL; December 17, 2021.
7. Optimal Movement – Agile Physical Therapy; San Francisco, April, 2020.
8. Research Spotlight: The Spectrum of Tendinopathy, from the Young Athlete to the Sedentary Older Adult. (Silbernagel, Kulig, Michener) Combined Sections Meeting of the APTA; Denver, CO. February, 2020.
9. Movement Assessment and Return to Playing for the Instrumental Musician. (Ying, Hayden, Michener) Combined Sections Meeting of the APTA; Denver, CO. February, 2020.
10. Shoulder Instability Clinical Practice Guidelines: Shoulder Stability and Movement Coordination Impairments (Seitz AL, Uhl TL, Hegedus E, Michener LA). Combined Sections Meeting of the APTA; Washington DC. January, 2019.
11. Spotlight on Research: Shoulder Rehabilitation (Seitz, Michener, Thigpen). Combined Sections Meeting of the APTA; Washington DC. January, 2019.
12. Shoulders are hip! Clinical Assessment and Movement Analysis of Shoulder Pain. American Society of Biomechanics – International Shoulder Group Session; Rochester, MN; August 9, 2018.
13. Overhead Athletes: Differential Diagnosis and Predictors of Injury. 2018 Art and Science of Sports Medicine, University of Virginia; April 13, 2018.
14. Rotator Cuff: Consensus and Controversies; Department of Physical Therapy, University of Pittsburgh; April, 2018.
15. Evidence into Practice for Shoulder Pain: Optimizing Diagnosis and Treatment – Rotator Cuff Disease. Combined Sections Meeting of the APTA; New Orleans, LA; February, 2018.
16. Rotator Cuff Tendinopathy: Diagnosis and Management; JetSet Rehab; Las Vegas, NV, Sept, 2017.
17. Rotator Cuff Disease: Clinical Practice Guidelines and Treatment: Surgery First and Rehabilitation Controversies. Annual Orthopaedic Section Meeting, San Diego, CA; April, 2017.
18. Staged Approach to Rehabilitation Classification for Shoulder Pain. Annual Orthopaedic Section Meeting, San Diego, CA; April, 2017.
19. Differential Diagnosis and Special Tests for Diagnosing Shoulder Pain. Annual Orthopaedic Section Meeting, San Diego, CA; April, 2017.
20. Staged Approach to Rehabilitation Classification for Shoulder Pain. Shoulder Update 2016; University of Southern California, Los Angeles, CA; Sept 10, 2016.
21. Scapular Dyskinesia: What is it, and Does it Matter? Shoulder Update 2016; University of Southern California, Los Angeles, CA; Sept 10, 2016.
22. SLAP tears: diagnosis, management and return to play. Far West Athletic Trainers' Association, Kona, HI; July, 2016.
23. Diagnosis, Imaging, and Management of Rotator Cuff Disease. Kaiser Permanente Physical Therapy Seminar; Downey, CA; March 19, 2016.
24. Rotator Cuff Disease – Evidence and Clinical Expertise for the Diagnosis and Treatment of Exercise and Manual Therapy. Combined Sections Meeting of the APTA; Anaheim, CA; February, 2016.
25. Rotator Cuff Disorders: Questions, Consensus, and Controversies. Arcadia University, Glenside, PA; December, 2015.

26. Musculoskeletal Shoulder Pain: A Case-based Approach to Understanding Diagnostic Imaging, Diagnosis and Management. Los Angeles District Meeting, Panorama City, CA; April 28, 2015.
27. Diagnosis and Management of Shoulder Pain (Michener LA, Tate AR, Walsworth MK. 1-day Continuing Education, University of Southern California. January 17, 2015.
28. Advanced Management of Shoulder Pain. School of Physical Therapy, University of Montana, Missoula, MT; October, 2014.
29. Evidence-based shoulder examination: A comprehensive approach (Sciascia A, Uhl T, Michener LA). National Athletic Trainers' Association Annual Meeting, Indianapolis, IN; June, 2014.
30. SLAP Injuries – Position Statement (Michener LA, Uhl T, Thigpen CA). National Athletic Trainers' Association Annual Meeting, Indianapolis, IN; June, 2014.
31. Treatment of Shoulder Pain: Relevance of Scapular Dyskinesia. Rehabilitation Science Seminar Series, University of Florida; March 26, 2014.
32. Shoulder Disorders: ICF-based Clinical Practice Guidelines. Combined Sections Meeting of the APTA; Las Vegas, NV; February, 2014.
33. Scapular Dyskinesia: Pathomechanics and Neuromuscular Adaptations. National Athletic Trainers' Association 64<sup>th</sup> Annual Meeting and Clinical Symposium; Las Vegas, NV; June, 2013.
34. Consensus and Controversies in Rehabilitation of Rotator Cuff Disease. Combined Sections Meeting of the APTA, San Diego, CA; January, 2013.
35. Scapular Function – Use of Scapular Tests for Treatment Decision-Making. 15<sup>th</sup> Annual Shoulder Symposium: Clinical Implications for Scapular Dyskinesia in Shoulder Injury, Lexington Clinic; Lexington, KY; July, 2012.
36. Clinical Utility of Patient-Rated Outcomes. Howard Head Sports Medicine, Frisco, CO; July, 2012.
37. Clinical Utility of Patient-Rated Outcomes. Howard Head Sports Medicine, Edwards, CO; July, 2012.
38. Treatment of Shoulder Pain: Diagnosis to Drive Treatment Decision-Making. 40<sup>th</sup> Art and Science of Sports Medicine Conference. University of Virginia, Charlottesville, VA; June, 2012.
39. Clinical Utility of Patient-Rated Outcomes. Proaxis Therapy, Greenville, SC; May, 2012.
40. Rotator cuff tendinopathy: Mechanisms, Diagnosis, Treatment, and Outcomes. Clinical Update, Arizona Physical Therapy Association, Phoenix, AZ; January, 2012.
41. Lower and Upper Extremity Tendinopathies: Mechanisms, Treatment, and Outcomes. American Physical Therapy Association Annual Meeting and Symposium, National Harbor, MD; June, 2011.
42. Rotator cuff tendinopathy: Mechanisms, Diagnosis, Treatment, and Outcomes. University of Southern California Physical Therapy Associates, Los Angeles, CA; May, 2011.
43. Diagnosis of Proximal Mononeuropathies of the Shoulder. Combined Sections Meeting of the American Physical Therapy Association, New Orleans, LA; February, 2011.
44. Rotator cuff tendinopathy: Current understanding and evidence based practice. National Athletic Trainers' Association Annual Meeting, Philadelphia, PA; June, 2010.
45. Rotator cuff tendinopathy: What do we know, what don't we know? West Virginia University Speaker Series 2010, Department of Physical Therapy, Morgantown, WV, March, 2010.
46. Diagnosis and Treatment of Shoulder Tendinopathy. Virginia Physical Therapy Association Annual Meeting, Richmond, VA, October, 2009.
47. Likelihood Ratios: what are they, and how do I use them in clinical decision-making? American Society of Shoulder and Elbow Therapists Annual Meeting, New York, New York, September, 2009.
48. Is scapular dyskinesia relevant in patients with impingement syndrome? Shoulder Symposium, Shoulder Center of Lexington, Lexington, KY, June, 2009.
49. Joint, Muscle, but what about the Tendon? Mechanisms Underlying Tendinopathies and the Basis for Effective Interventions. Combined Sections Meeting of the American Physical Therapy Association, Las Vegas, NV; February, 2009.

50. Diagnosis and Management of Patients with Impingement Syndrome. Department of OT/PT, VCUHS, Richmond, VA; January, 2009.
51. Diagnosis and Management of Subacromial Impingement Syndrome. National Athletic Trainers' Association 58th Annual Meeting and Clinical Symposia, St. Louis, MO; June, 2008.
52. Scapular Kinematics. Lecture and Workshop. Mid-Atlantic Athletic Trainers' Meeting, Virginia Beach, VA; May, 2008.
53. Validating our Treatment: Documenting Patient Improvement. Shoulder Self-Report Outcome Measures. National Athletic Trainers' Association 58th Annual Meeting and Clinical Symposia, Anaheim, CA; June, 2007.
54. Role of the Scapula in Shoulder Disorders. Penn Shoulder and Elbow Update, Philadelphia, PA; November, 2006.
55. Evaluation and Treatment of Scapular Dysfunction. Penn Shoulder and Elbow Update, Philadelphia, PA; November, 2006.
56. Non-Surgical Approach for Treatment of Rotator Cuff Disorders. American Shoulder and Elbow Therapists Meeting: The Challenge of the Rotator Cuff Course, Chicago, IL; October, 2006.
57. Physical Therapy Management of Scapulothoracic Dysfunction. Annual Conference and Exposition of the American Physical Therapy Association, Orlando, FL; June, 2006.
58. Evidence-based Approach to Shoulder Diagnostic Testing. National Athletic Trainers' Association 57th Annual Meeting and Clinical Symposia, Atlanta, GA; June, 2006.
59. Scapular Dyskinesia: What is it and How do you treat it? National Athletic Trainers' Association 57th Annual Meeting and Clinical Symposia, Atlanta, GA; June, 2006.
60. Shoulder Outcome Tools: Assessment of Long-term Effects of Treatment for Breast Cancer. Combined Sections Meeting of the American Physical Therapy Association, San Diego, CA; February, 2006.
61. Diagnosis and Treatment of Patients with Musculoskeletal Shoulder Dysfunctions: Evidence-Based Approach. ProRehab, Evansville, IN; January 14-15, 2006.
62. Evidence Based Approach to Musculoskeletal Disorders of the Upper Extremity: Diagnosis, Treatment and Outcomes. University of Kentucky Summer Colloquium (RHB789 Research), Lexington, KY; August 12-14, 2005.
63. Diagnosis and Treatment of a Patient with Shoulder Pain: Evidence-based Practice. Evidence-based Medicine: Maximizing Treatment Outcomes. UCSF, San Francisco, CA; November, 2005.
64. Scapular Kinematics: Normal and Dysfunctional Patterns of Motion. Combined Sections Meeting of the American Physical Therapy Association, New Orleans, LA; February, 2005.
65. How accurate are special tests of the shoulder? Combined Sections Meeting of the American Physical Therapy Association, New Orleans, LA; February, 2005.
66. Effectiveness of rehabilitation for patients with subacromial impingement syndrome: a systemic review. Penn Shoulder Update, Philadelphia, PA; November, 2004.
67. Scapular Kinematics. National Athletic Trainers' Association Annual Meeting, Baltimore, MD; June, 2004.
68. Evidence-based Practice: A Case Example of a Patient with Shoulder Pain. Evidence-based Physical Therapy Practice, an International Perspective; MedRisk Seminar, Philadelphia, PA; April, 2004.
69. Evaluation and Intervention for Subacromial Impingement Syndrome. Penn State University Annual Conference, State College, PA; March, 2004.
70. Evidenced-based Shoulder Examination; Sports Section, Combined Sections Meeting of the APTA, Nashville, TN, February, 2004.
71. Scapular Kinematics, What Do We Know? National Athletic Trainers' Association Annual Meeting, St. Louis, MO; June, 2003.
72. Clinical Management for Subacromial Impingement Syndrome. National Athletic Trainers' Association Annual Meeting, St. Louis, MO; June, 2003.

73. Tools for Assessment of Functional Outcome. The Shoulder and the Kinetic Chain – Evaluation, Treatment and Rehabilitation, Lexington Clinic Sports Medicine Center, Lexington, KY; August, 2002.
74. Kinematics of the Scapula in Function and Dysfunction. The Shoulder and the Kinetic Chain – Evaluation, Treatment and Rehabilitation, Lexington Clinic Sports Medicine Center, Lexington, KY; August, 2002.
75. Evidenced-based Decision-making for Shoulder Instability. National Athletic Trainers' Association Annual Meeting, Dallas, TX; June, 2002.
76. Measuring Functional Limitations and Disability: The Use of Self-report Forms. National Athletic Trainers' Association Annual Meeting, Dallas, TX; June, 2002.
77. Evidenced-based Clinical Decision-making for Shoulder Instability. National Athletic Trainers' Association Annual Meeting, Dallas, TX; June, 2002.
78. Shoulder Pathologies and Rehabilitation. Lab Instructor; Medical College of Virginia Hospitals, Richmond, VA; April, 2002.
79. Evaluation of Responsiveness. American Society of Shoulder and Elbow Therapist Annual Meeting; Napa, California; October, 2001.
80. The Role of the Scapula in Evaluation and Treatment of the Shoulder"; Southside Regional Medical Center; August, 2001.
81. Outcome Measurement Tools for Orthopedics. National Capital Area Military Physical Therapy, Occupational Therapy, and Orthopedics. Walter Reed Army Medical Center, Washington, DC; July, 2000.
82. Biomechanical Considerations of Subacromial Impingement Syndrome; National Athletic Trainers' Association Annual Meeting; Nashville, TN; June, 2000.
83. Lumbar Spine Pain in Athletes: Focus on Evidence-based Practice; District 9 and 10 of the National Athletic Trainers' Association; Las Vegas, NV and Atlanta, GA; March, 2000.
84. Evaluation of the Spine in Athletes; National Athletic Trainers' Association Annual Meeting; Kansas City, KS; June, 1999.
85. Protecting the Wrist and Thumb in Sports Injuries: Surgery and Rehabilitation of the Wrist and Hand Symposium; Philadelphia, PA; March, 1999.
86. Shoulder Functional Outcome Measures: Their Practical Use in Your Clinic; Surgery and Rehabilitation of the Wrist and Hand Symposium, Philadelphia, PA; March, 1999.
87. Functional Spinal Stabilization; presented to Eastern Athletic Trainers' Association Annual Meeting; Philadelphia, PA; January, 1999.
88. Scapular kinematics. American Shoulder and Elbow Therapists Annual Meeting; New York, New York; November, 1998.
89. Comprehensive Evaluation and Treatment of the Shoulder: Impairments, Functional Limitations, and Disability; presented to: PA Annual Physical Therapy Meeting, October, 1998.
90. Biomechanical Aspects of Patello-femoral Treatment and Rehabilitation; presented to: North Central District of the PA Physical Therapy Association; March, 1996.
91. Lower Extremity Biomechanical Evaluation; presented at Costello Center Physical Therapy Conference; Williamsport, PA; January, 1993.
92. Athletic Training; presented to: Diplomate program in Sports Injury for Chiropractic; Orlando, Florida; April, 1992 and New York, NY; June, 1992.
93. Differential Diagnosis of the Lumbar Spine; presented to: Pennsylvania Athletic Trainers' Annual Symposium; Hershey, PA; May, 1992.
94. Therapeutic Techniques for Treatment of the Lumbar Spine; presented to: Pennsylvania Athletic Trainers' Annual Symposium; Hershey, PA; May, 1992.

**ABSTRACT PRESENTATIONS – Platform and Posters:**

International Abstract Presentations/ Posters

1. Barrack AJ, Sakurai M, Wee CP, Diaz PR, Stocklin C, Karduna AR, **Michener LA**. Physical Factors Change the Elbow Varus Torque – Ball Velocity Relationship in Collegiate Baseball Players. IOC Conference on Prevention of Injury and Illness in Sport. Monaco, February 2024.
2. **Michener LA**, McClure PW, Tate, AR, Bailey L, Seitz AR, Straub R, Thigpen CA. Adding Manual Therapy to an Exercise Program Improves Patient Outcomes at 6 and 12 Months over Exercise Alone in Patients with Rotator Cuff Tendinopathy: A Randomized Clinical Trial. International Tendon Symposium, Valencia, Spain, November, 2023.
3. Giordano K, Barrack A, Wasserberger K, Murrach W, Karduna A, **Michener L**. Usage and acceptability of data normalization in baseball pitching. International Society of Sports Biomechanics Meeting, Minnesota, July 2023.
4. Vila Dieguez O, **Michener LA**. The puzzle of Rotator Cuff Tendinopathy and Exercise: analysis of two pieces that fit together. International Shoulder Group Conference, Delft, Netherlands, 2022.
5. Lantz JM, Formanek B, Roberts C, **Michener LA**, Hah RJ, Wang JC, Buser Z. Incidence of Complications Associated with Cervical Spine Surgery and Post-operative Physical Therapy. Poster Presentation. Global Spine Congress, Las Vegas, NV, USA. 2022.
6. Lu, Z, Chow K, Lobb N, Long E, **Michener LA**. Ultrasound Elbow Ulnar Collateral Ligament Quantitative and Qualitative Measures in Collegiate Pitchers. European Society of Radiology 2021 Meeting, Vienna, Austria; March 3-7, 2021.
7. Lantz JM, Abedi A, Tran F, Cahill BA, Kulig K, **Michener LA**, Hah RJ, Wang JC, Buser Z. The Impact of physical therapy after cervical spine surgery for degenerative spine disorders: A systematic review. Global Spine Congress, Paris, France; May 8, 2021.
8. Hegarty AK, Kutch JJ, Bowdle R, Kardouni JR, **Michener LA**. Simple Quantitative Sensory Testing Can Identify Responders to Manual Therapy in Patients With Shoulder Pain. IASP Virtual Series on Pain & Expo. September 10-March 11, 2020.
9. Lantz JM, Abedi A, Tran F, Cahill BA, Kulig K, **Michener LA**, Hah RJ, Wang JC, Buser Z. The impact of physical therapy after cervical spine surgery for degenerative spine disorders: A systematic review. Global Spine Congress, Rio de Janeiro, Brazil; May 20-23, 2020.
10. Lindley EM, Cofer CL, Mintken PE, Sawyer E, **Michener LA**, Patel VV. Validation of a New SI Joint-Specific Disability Questionnaire: The Denver SI Joint Questionnaire. Annual Meeting of the International Society for the Advancement of Spine Surgery (ISASS). San Juan, Puerto Rico, February 26-28, 2020.
11. Plummer HA, Meggs SA, Diaz P, Chien A, **Michener LA**. Effectiveness of an exercise program in glenohumeral range of motion, strength, and lumbopelvic strength in collegiate baseball players. International Congress of Shoulder and Elbow Therapists and Surgeons, Buenos Aires, Argentina; September, 2019.
12. Pozzi F, Plummer HA, Shanley E, Thigpen CA, Johnson R, Wilson M, Bauer C, **Michener LA**. Screening range of motion and strength to predict upper extremity injury in overhead athletes: a systematic review. International Congress of Shoulder and Elbow Therapists and Surgeons, Buenos Aires, Argentina; May, 2019.
13. Sousa CO, Pozzi F, Plummer HA, Roll SC, **Michener LA**. Shoulder tendon macromorphology and impairments in dental hygienists. 12<sup>th</sup> Meeting of the International Shoulder Group, Rochester, Minnesota. August, 2018.
14. Plummer HA, Pozzi F, McNeill BT, Sum JC, **Michener LA**. Scapular kinematics following a closed-chain rehabilitation program for patients with rotator cuff tears. 12<sup>th</sup> Meeting of the International Shoulder Group, Rochester, Minnesota. August, 2018.
15. Pozzi F, Plummer HA, Lee Y, Sanchez N, **Michener LA**. Electromyography activation of shoulder muscles during open and closed chain exercise for the upper extremity. 12<sup>th</sup> Meeting of the International Shoulder Group, Rochester, Minnesota. August, 2018.

16. Hankard J, Sigman E, Ginoza L, Pozzi F, **Michener LA**. The Validation of a Self-Efficacy Scale for Chronic Headache: A Methods Study. Congress of the International Headache Society, Vancouver, BC; Sept, 2017.
17. Young IA, Pozzi, IA, Dunning J, Linkonnis R, **Michener LA**. Immediate and short term effects of thoracic spine manipulation in patients with cervical radiculopathy: A randomized controlled trial. Platform. World Congress of Physical Therapy; Cape Town, South Africa, July, 2017.
18. Yesilyaprak S, Yuksel E, Kalayc M, Karabay N, **Michener LA**. The effect of kinesiotaping on shoulder muscle strength and subacromial space in scapular dyskinesis. 22<sup>nd</sup> Congress of the European Society of Biomechanics. Lyon France, July, 2016.
19. Yesilyaprak S, Yuksel E, Kalayc M, Karabay N, **Michener LA**. Relationship of scapular motion, muscle strength and length with subacromial space in scapular dyskinesis. 22<sup>nd</sup> Congress of the European Society of Biomechanics. Lyon France, July, 2016.
20. Plummer HA, Yehezkielof, Oliver GD, Powers CM, **Michener LA**. The influence of lumbo-pelvic stability on youth pitching kinematics. 11<sup>th</sup> Conference of the International Shoulder Group, Winterthur, Switzerland; July 2016.
21. Mintken P, McDevitt A, **Michener LA**, Burns S, Boyles R, Cleland J. Examination of a clinical prediction rule to identify patients with shoulder pain likely to benefit from cervicothoracic manipulation: a multi-center randomized clinical trial. International Federation of Orthopaedic Manipulative Physical Therapists Meeting, Glasgow, Scotland; July, 2016.
22. **Michener LA**, Timmons MK, Ericksen JJ, Yesilyaprak SS. Empty can exercise provokes more pain and has undesirable biomechanics as compared to the full can exercise. International Congress of Shoulder and Elbow Therapists and Surgeons, Jeju, Korea; May, 2016.
23. **Michener LA**, Sharma S, Cools AM, Timmons MK. Scapular muscles ratios during active arm elevation in patients with subacromial pain syndrome. European Society for Surgery of the Shoulder and Elbow (SECEC-ESSSE) – European Society for Shoulder and Elbow Rehabilitation (EUSSER), Milan, Italy, 2015.
24. Sousa CO, Camargo PR, **Michener LA**, Ribeiro IL, Reiff RB, Salvini TF. Scapulohumeral rhythm during arm elevation in patients with acromioclavicular osteoarthritis. International Society of Biomechanics, Glasgow, Scotland, July, 2015.
25. Payne C, **Michener LA**. Physiotherapists' use and perspectives on the importance of patient-reported outcome measures for shoulder dysfunction. International Journal of Therapy and Rehabilitation. 21(7):S4, presented at BESS, 2015.
26. Subasi Yesilyaprak S, **Michener L**, Seitz A, Timmons M, Walsworth M. Supraspinatus tendon and subacromial space parameters measured on ultrasonographic imaging in subacromial impingement syndrome. 18th Annual Congress of the European College of Sport Science. June 26-29, 2013, Barcelona, Spain.
27. Payne C, **Michener LA**. Patient reported outcome measures for the standardized assessment of shoulder dysfunctions: an international perspective. International Congress of Shoulder and Elbow Therapists (ICSET), Nagoya, Japan; April, 2013.
28. **Michener LA**, McClure PW, Tate AR, Thigpen CA, Ketchum JM, Czarnota JN. Factors associated with a successful outcome of a standardized program of exercise and manual therapy for patients with impingement syndrome. International Congress of Shoulder and Elbow Therapists (ICSET), Nagoya, Japan; April, 2013.
29. Timmons MK, Thigpen CA, Seitz AL, Karduna AR, Arnold BL, **Michener LA**. Scapular Kinematics and Subacromial Impingement Syndrome: A Meta-Analysis. International Society of Biomechanics Meeting, Brussels, Belgium, 2011.
30. Timmons MK, Subasi S, Borgsmiller L, Zirker C, **Michener L**. Scapular Kinematics, Shoulder Muscle Activation, and Pain During Open Can and Empty Can Supraspinatus Exercises in Dynamic Conditions. International Society of Biomechanics Meeting, Brussels, Belgium, 2011.

31. Seitz AL, **Michener LA**, Lynch SS, McClure PW, Boardman ND. Scapular Dyskinesia: Effects of Scapular Assistance on Subacromial Space. 3<sup>rd</sup> International Congress of Shoulder and Elbow Therapists, Edinburgh, UK 2010.
32. **Michener LA**, Boardman ND, Pidcoe PE, Firth AM. Construct validity and reliability of scapular muscle performance testing in patients with shoulder pain and functional loss. International Shoulder Congress of Shoulder Therapists and Surgeons, Washington, DC; May, 2004.
33. **Michener LA**, Walsworth MK, Burnet, EN. Effectiveness of rehabilitation for patients with subacromial impingement syndrome: a systemic review. International Shoulder Congress of Shoulder Therapists and Surgeons, Washington, DC; May, 2004.
34. Ebaugh D, McClure P, **Michener L**, Karduna, A. The pattern of scapulohumeral motion-how stable is it? World Congress on Biomechanics; Calgary, BC; August, 2002.
35. Karduna A, McClure P, **Michener L**, Sennett B. Three Dimensional Measurements of Scapular Kinematics: Reliability and Validity of a Novel Technique; NACOB'98 Congress, Canada, August, 1998.

National and Regional Abstract Presentations/ Posters

1. Ables R, Heindel MD, Vila Dieguez O, Silva B, Sexton TA, **Michener LA**. Pain catastrophizing impacts outcomes with resisted exercise: assess early and often in rotator cuff tendinopathy. APTA Annual Combined Sections Meeting, Boston, MA; February, 2024.
2. Vila Dieguez O, Heindel MD, Barros B, **Michener LA**. Exercise for rotator cuff tendinopathy: baseline characteristics and early change of responders versus non-responders. APTA Annual Combined Sections Meeting, Boston, MA; February, 2024.
3. Mears, C, Heindel MD, Vila Dieguez O, **Michener LA**. Are Deficits in Muscle Performance Related to Psychosocial Factors in Those with Rotator Cuff Tendinopathy? APTA Annual Combined Sections Meeting, Boston, MA; February, 2024.
4. Heindel MD., Kutch JJ, Silva B, Vila Dieguez O., **Michener LA**. Motor Cortex Dual Dysfunction: Resting-state and Task-Based Activity in those with Rotator Cuff Tendinopathy. APTA Combined Sections Meeting. Boston, MA; February, 2024.
5. McPherson DC, Vila Dieguez O, **Michener LA**. Measuring force in patients with RC tendinopathy: is peak force enough? APTA Annual Combined Sections Meeting, Boston, MA; February, 2024.
6. Ebert AD, Vail JA, **Michener LA**, Kim P, Hame SL, Diaz AM. Anterior knee pain among Division I athletes following ACL reconstruction. APTA Annual Combined Sections Meeting, Boston, MA; February, 2024.
7. Wang J, **Michener LA**, Sigward SM. Development of clinical methods to identify knee loading deficits during squats post-ACLR. APTA Annual Combined Sections Meeting, Boston, MA; February, 2024.
8. Pontillo M, Gorczynski S, Bunn A, **Michener LA**, Farrokhi S. Implementing a Criteria-Based Rehabilitation Program for Injured Shoulders: A Pilot Study. APTA Annual Combined Sections Meeting, Boston, MA; February, 2024.
9. Pontillo M, Gorczynski S, Smith R, Emory A, **Michener LA**, Farrokhi S. Differences in Physical Therapy Intervention Utilization Patterns between Criteria-Based and Standard of Care Rehabilitation. APTA Annual Combined Sections Meeting, Boston, MA; February, 2024.
10. DeZee ZJ, Barrack AJ, Bucci K, Zerega RJ, Straub RJ, Karduna AR, **Michener LA**. Lumbopelvic Stability During a Single Leg Step Down Predicts Elbow Varus Torque During Baseball Pitching. Southwestern Chapter of American College of Sports Medicine; Costa Mesa, CA. October 2023.
11. Lobb N, Lu J, Long E, Diaz PR, Chow K, **Michener LA**. Ultrasound Evaluation of Elbow Ulnar Collateral Ligament in Collegiate Baseball Pitchers. ARRS Annual Meeting, Honolulu, Hawaii; April, 2023.
12. Lutz AD, Cook CE, Thigpen CA, **Michener LA**. Do low back pain guidelines for active care ratio

- yield better outcomes for patients with shoulder pain? Combined Sections Meeting-APTA; San Diego, CA; February, 2023.
13. Vila Dieguez O, **Michener LA**. Exercise for Rotator Cuff Tendinopathy: What Differentiates Responders from Non-Responders? Combined Sections Meeting-APTA; San Diego, CA; February 2023.
  14. Garcia N, Sakurai M, Tarr A, Papa C, Lobb N, Barrack A, Karduna A, **Michener L**. Grip Strength Does Not Moderate the Ball Velocity and Elbow Torque Relationship in Collegiate Pitchers. Combined Sections Meeting-APTA; San Diego, CA; February 2023.
  15. Schlenk N, Vila Dieguez O, **Michener LA**. Supraspinatus Tendon Thickness Changes with Resisted Exercise Intervention for Rotator Cuff Tendinopathy. Combined Sections Meeting-APTA; San Diego, CA; February 2023.
  16. Beneciuk J, **Michener L**, Sigman E, Harrison T, Buzzanca K, Hill J. Validity of the Keele Start MSK Tool in Outpatient Physical Therapy Settings. Combined Sections Meeting (CSM) - APTA, San Diego, CA. February 23-25, 2023.
  17. Gonzalez CA, Awokuse D, Barrack AJ, Karduna A, **Michener LA**. Influence of Ulnohumeral Laxity on the Elbow Varus Torque-Ball Velocity Relationship in Baseball Pitchers. Combined Sections Meeting-APTA; San Diego, CA; February, 2023.
  18. Abeles R, Vila Dieguez O, Heindel M, Dunn M, Sexton T, **Michener LA**. Contribution of Psychosocial Factors to Exercise Response in Participants with Rotator Cuff Tendinopathy: Pilot Study. Combined Sections Meeting-APTA; San Diego, CA; February 2023.
  19. Heindel MD, Kutch JJ, **Michener LA**. Resting-State Brain Activity in Rotator Cuff Tendinopathy Revealed Trait-like Differences from Pain-Free Controls. Combined Sections Meeting-APTA; San Diego, CA; February, 2023.
  20. **Michener LA**, Seitz AL, Leggin BG. Physical Therapists Management of Glenohumeral Joint Osteoarthritis: A Clinical Practice Guidelines from the American Physical Therapy Association, American Shoulder and Elbow Therapists Annual Meeting, Atlanta, GA; October, 2022.
  21. Lobb N, Lu J, Long E, Diaz PR, Chow K, **Michener LA**. Baseball Pitching: Effects on the Ulnar Collateral Ligament and Ulna-Humeral Joint. National Athletic Trainers' Association Annual Meeting; Philadelphia, PA; June, 2022.
  22. Barrack AJ, **Michener LA**, Nicholson KF & Powers CM. Trail Leg Hip Power: Influence on Elbow Varus Torque in Baseball Pitchers. Poster. American College of Sports Medicine, Annual Meeting and World Congress; San Diego, CA; June, 2022
  23. Vila Dieguez O, Seitz AL, **Michener LA**. Size Matters: Supraspinatus Tendon Thickness in Responders Vs. Non Responders after a 6-Week Rehabilitation Intervention. Combined Sections Meeting-APTA; San Antonio, TX; February, 2022.
  24. McLeland K, Bauer C, Hegarty A, Long E, **Michener LA**. Sweet Dreams are Made of This: Pain Sensitivity and Sleep Quality. Combined Sections Meeting-APTA; San Antonio, TX; Feb, 2022.
  25. Lobb N, Lu J, Long E, Chow K, **Michener LA**. Bilateral Differences in Ulnar Collateral Ligament Quantitative and Qualitative Measures in Collegiate Pitchers. Combined Sections Meeting-APTA; San Antonio, TX; February, 2022.
  26. Barrack AJ, **Michener LA**, Liebeskind BY, Zerega RJ, Sum JC, Crotin RL, Plummer HA. Rotational Shoulder Strength Profiles In North And Latin American Professional Baseball Pitchers And Position Players. Poster. American College of Sports Medicine Annual Meeting, World Congress on Exercise is Medicine® and World Congress on the Basic Science of Exercise in Regenerative Medicine, Virtual, June 2021.
  27. Bauer C, Hegarty AK, Tsay M, Liebeskind B, Pozzi F, **Michener LA**. Are males and females alike? The role of central sensitization in patients with chronic rotator cuff tears. Osteopathic Physicians & Surgeons of California 7th Annual Poster Competition. Feb 19, 2021. Virtual.
  28. Barrack AJ, Rittenberry HB, Yasen A, Lobb N, Zerega RJ, **Michener LA**, Karduna AR. Baseball Pitcher-specific Elbow Torque-velocity Relationship: Influence of Physical Factors.



- Combined Sections Meeting-APTA; Virtual; February 2021. Platform.
29. Garcia N, Lobb N, Barrack AJ, Zerega R, Yasen A, Rittenberry H, Karim R, Karduna AR, **Michener LA**. The Pitcher-Specific Relationship between Pitch Velocity and Elbow Valgus Torque. Combined Sections Meeting-APTA; Virtual; February 2021. Poster.
  30. Beneciuk JM, **Michener LA**, Sigman EL, Harrison TC, Buzzanca K, Hill JC, Dunn KM. Preliminary Validity of the Newly Developed Keele Start MSK Tool: A Cross-Sectional Analysis. Combined Sections Meeting-APTA; Virtual; February 2021. Abstract
  31. Sousa CO, Pozzi F, do Nascimento JDS, Kardouni JR, **Michener LA**. Reliability and Validity of the Shoulder Performance Activity Test. Combined Section Meeting- APTA; Virtual; Feb, 2021.
  32. Stirling BD, Sum JC, Baek L, Barrack AS, **Michener L**, Tate AR. USA Swimmers' Shoulder Pain and Coaches' Experience, Education, and Views on Injury Prevention. Combined Sections Meeting – APTA, Virtual, Feb, 2021.
  33. Pozzi F, Bauer C, Hegarty AR, Plummer HA, Bishop MD, **Michener LA**. Effect of Exercise on Clinical Pain Intensity and Quantitative Pain Sensitivity in Rotator Cuff Tear. Combined Section Meeting- APTA; Virtual; February 2021.
  34. **Michener LA**, Behan, F, Plummer HA, Crotin RL, Hostetter G, Li BJ. Shoulder Range of Motion and Strength in Professional Baseball Players: a 3 Year Longitudinal Study. Platform, Combined Sections Meeting-APTA, Virtual; Feb, 2021.
  35. Sawyer EE, Mintken PE, Lindley EM, Cofer C, **Michener LA**, Patel V. Validation of a New Outcome Measure for Sacroiliac Joint Pain – The Denver SI Joint Questionnaire (DSIJQ). Poster. Combined Sections Meeting-APTA, Virtual; Feb, 2021.
  36. Failla MJ, Mintken PE, McDevitt AW, **Michener LA**. Recovery Trajectory and Predictors of Patient Acceptable Symptom State Outcome in Individuals with Shoulder Pain. Combined Sections Meeting-APTA; Virtual; February 2021. Poster.
  37. Pozzi F, Sousa C, Plummer H, Andrade B, Hewus A, Kono N, Mack W, Roll S, **Michener LA**. Changes in supraspinatus tendon morphology with onset of shoulder pain in repetitive job-related tasks: a longitudinal study. NATA Annual Symposium; Atlanta, GA; June 2020.
  38. Hsu M, Kardouni J, Hegarty A, Roy J-S, Kutch J, **Michener L**. Does Spinal Manipulation Therapy Target Central Drivers of Pain in Individuals with Subacromial Impingement Syndrome? Combined Sections Meeting-APTA; Denver, CO; February, 2020.
  39. Baek L, Lamonthe M, Ginoza L, Sigman E, Hankard J, **Michener L**, Pozzi F. Psychometric properties of the chronic headache and self-efficacy scale (CHASE): Preliminary Study. Combined Sections Meeting-APTA; Denver, CO; February, 2020.
  40. Pozzi F, Sousa C, Plummer H, Andrade B, Hewus A, Kono N, Mack W, Roll S, **Michener LA**. Repetitive dental hygienist job-related tasks increase the risk of shoulder pain and altered supraspinatus morphology. Combined Sections Meeting-APTA; Denver, CO; February, 2020.
  41. Pozzi F, Young IA, **Michener LA**. Change in Neck Pain Discriminates Patients with Cervical Radiculopathy That Respond to Thoracic Manipulation. Combined Sections Meeting-APTA; Denver, CO; February, 2020.
  42. Hegarty AK, Yani MS, Albishi AM, **Michener LA**, Kutch JJ. Sensorimotor functional connectivity to the salience network is spatially heterogeneous in healthy humans. Society for Neuroscience Annual Meeting, Top 100 posters, selected for “Hot topics for Neuroscience”, Chicago, IL; October, 2019.
  43. Dove H, Brice T, Curran J, Li B, Hostetter G, Chien A, Plummer HA, **Michener LA**. Relationship Between Hip Strength, Lower Extremity Movement during a Single-Leg Step-Down Task and Upper Extremity Injury in Professional Baseball Players. NATA Annual Symposium; Las Vegas, NV; June 2019.
  44. Meggs S, Plummer HA, Diaz P, Chien A, **Michener LA**. Effectiveness of an Exercise Program on Range of Motion, Strength, and Lumbopelvic Stability in Division I Collegiate Baseball Players. NATA Annual Symposium; Las Vegas, NV; June 2019.

45. **Michener LA**, Plummer HA, Bauer C, Johnson R, Shanley E, Thigpen CA, Pozzi F. Screening range of motion and strength to predict upper extremity injury in overhead athletes: a systematic review. Combined Sections Meeting-APTA; Washington, DC; January, 2019.
46. Maddrey RC, Lutz A, Denninger TR, McClure PW, **Michener LA**, Golden SB, Kissenberth M, Thigpen CA. A descriptive analysis of a staged algorithm for rehabilitation in patients seeking direct access to physical therapy for hip and knee disorders. Combined Sections Meeting-APTA; Washington, DC; January, 2019.
47. Gordon C, Shanley E, Lutz A, McClure PW, **Michener LA**, Denninger TR, Golden SB, Kissenberth M, Thigpen CA. A descriptive analysis of a staged algorithm for rehabilitation in patients seeking direct access to physical therapy for shoulder disorders. Combined Sections Meeting-APTA; Washington, DC; January, 2019.
48. Young IA, Pozzi F, Dunning J, Linkonnis R, **Michener, LA**. Immediate and short term effects of thoracic spine manipulation in patients with cervical radiculopathy: a randomized controlled trial. Combined Sections Meeting-APTA; Washington, DC; January, 2019.
49. Zipser M, Plummer H, Hostetter G, Li B, Sum J, **Michener LA**. Hip abduction strength relationship to single-leg step down task in professional baseball players. Combined Sections Meeting-APTA; Washington, DC; January, 2019.
50. Pozzi F, Plummer H, Sum J, McNeill B, Chow K, Winstein C, **Michener LA**. Functional recovery of patients with full-thickness rotator cuff tears discharged from physical therapy. Combined Sections Meeting-APTA; Washington, DC; January, 2019.
51. Pozzi F, Plummer H, Sanchez N, Lee Y, **Michener LA**. Closed chain exercises of the upper extremity elicit greater activation of shoulder and trunk muscles. Combined Sections Meeting-APTA; Washington, DC; January, 2019.
52. Lamothe MA, Hankard J, Sigman E, Ginoza L, Pozzi F, **Michener LA**. Chronic headache self-efficacy scale (CHASE): Preliminary assessment of measurement properties. Combined Sections Meeting-APTA; Washington, DC; January, 2019.
53. **Michener LA**, Plummer HA, Abeles B, Waldman E, Kindstrand N, Hostetter G, Li B. Shoulder External, Internal and Total Range of Motion Relationship to Injury Incidence in Professional Baseball Players. NATA Annual Symposium; New Orleans, LA; June 2018.
54. Pozzi F, Plummer H, Sum J, McNeill B, Chow K, Itamura J, Luedeka D, **Michener L**. Feasibility and efficacy of a closed chain strengthening protocol for patients with full thickness rotator cuff tears. Combined Sections Meeting-APTA; New Orleans, LA; Feb, 2018.
55. Hankard J, Ginoza L, Sigman E, Kim, B, Pozzi F, **Michener LA**. Chronic Headache Self-Efficacy Scale (CHASE): Preliminary Assessment of Reliability. Combined Sections Meeting-APTA; New Orleans, LA; Feb, 2018.
56. **Michener LA**, Plummer HA, Oliver G, Powers C. Trunk lean during a single-leg squat is associated with trunk lean during pitching. Combined Sections Meeting-APTA; New Orleans, LA; Feb, 2018.
57. Laning SG, Linde A, Rooks A, Schwaegerle K, Escorpizo RS, **Michener LA**, Failla M. Clinician expectations of full-thickness rotator cuff repair outcomes. Combined Sections Meeting-APTA; New Orleans, LA; Feb, 2018.
58. Gonzalez S, Diaz A, Plummer HA, **Michener LA**. Risk Factors of Low Back Pain in Female Collegiate Rowers. NATA Annual Symposium; Houston, TX; June, 2017.
59. Plummer HA, Sum J, Pozzi F, Varghese R, **Michener LA**. Observational scapular dyskinesis: Prevalence in Individuals with and without Shoulder Pain. NATA Annual Symposium; Houston, TX; June, 2017.
60. Barrack AJ, Lee Y, Plummer HA, Li B, **Michener LA**. Dynamic trunk stability during a step-down task in baseball players, Am College of Sports Medicine, Denver; May 2017.
61. **Michener LA**, Plummer HA, Pozzi F, Varghese R, Sum J. Observational scapular dyskinesis: is it relevant? Combined Sections Meeting - APTA, San Antonio, TX; Feb, 2017.

62. Pozzi F, Plummer HA, Seitz AL, Bashford G, **Michener LA**. Supraspinatus tendon morphology is not related to symptoms and functional loss in individuals with subacromial pain syndrome. Combined Sections Meeting - APTA, San Antonio, TX; Feb, 2017.
63. Sharma S, Timmons MK, **Michener LA**. Scapular muscle onset activation during arm elevation in individuals with subacromial pain syndrome. Combined Sections Meeting - APTA, San Antonio, TX; Feb, 2017.
64. **Michener LA**, Plummer HA, Pozzi F, Varghese R, Sum J. Observational scapular dyskinesis: is it relevant? . American Society of Shoulder & Elbow Therapists Annual Conference. Boston, MA; October, 2016.
65. Mintken P, McDevitt A, **Michener LA**, Boyles, R, Cleland J. Examination of a Prognostic Variables to Identify Patients with Shoulder Pain Likely to Benefit from Cervicothoracic Manipulation: A Multi-Center Randomized Clinical Trial. Combined Sections Meeting – APTA, Anaheim, CA; Feb 2016.
66. Harrington SA, **Michener LA**. Shoulder Outcomes Measures in Breast Cancer Survivors. American Society of Shoulder and Elbow Therapists, Ashville, NC, October, 2015.
67. Thigpen C, McClure P, Bailey LB, Tate AR, Na A, Sima A, Michener LA. Effects of manual therapy in addition to supervised exercise for subacromial impingement syndrome. Combined Sections Meeting – APTA, Indianapolis, IN; Feb 2015; JOSPT 45(1):A30, 2015
68. Sharma S, Timmons MK, **Michener LA**. Relative muscle activity of scapular muscles during active arm elevation and lowering in patients with subacromial impingement syndrome. Combined Sections Meeting - APTA, JOSPT 45(1):A31, 2015.
69. Coronado R, Bialosky J, Bishop M, Riley J, Robinson M, **Michener L**, George S. The Comparative Effects of Cervical and Shoulder Manipulation and Exercise on Pain Sensitivity and Clinical Outcomes. Combined Sections Meeting - APTA, Indianapolis, IN; JOSPT 45(1):A107, 2015.
70. Kardouni JR, Shaffer SW, Finucane S, Pidcoe P, Cheatham SA, **Michener LA**. Immediate Changes in Pressure Pain Sensitivity after Thoracic Spinal Manipulative Therapy in Patients with Subacromial Impingement Syndrome. Combined Sections Meeting - APTA, Indianapolis, IN; JOSPT 45(1):A105, 2015.
71. Kardouni JR, Pidcoe P, Shaffer SW, Finucane S, Cheatham SA, **Michener LA**. Thoracic Spine Manipulation in Patients with Subacromial Impingement Syndrome Does Not Immediately Alter Thoracic Spine Kinematics, Thoracic Excursion, or Scapular Kinematics. Combined Sections Meeting - APTA, Indianapolis, IN; JOSPT 45(1):A105, 2015.
72. **Michener LA**, McClure PW, Tate AR, Thigpen CA, Czarnota JN, Ketchum JM. Successful outcome of a standardized program of exercise and manual therapy for patients with subacromial pain syndrome. Combined Sections Meeting – APTA, Las Vegas, NV; February, 2014. JOSPT 44(1):A108, 2014.
73. Rodriguez J, **Michener LA**, Bay RC, Valovich McLeod TC, Snyder Valier AR. Increasing the Interpretability of Patient-Rated Outcome Measures for Evaluating Concussed Patients. National Athletic Trainers' Association Annual Symposium; Las Vegas, NV; June, 2013. 48(3): S-199.
74. **Michener LA**, McClure PW, Tate AR, Thigpen CA, Ketchum JM, Czarnota JN. Factors predicting a successful outcome of rehabilitation for patients with impingement syndrome. National Athletic Trainers' Association Annual Symposium; Las Vegas, NV; June, 2013.
75. Shanley E, Kissenberth MJ, Thigpen CA, Bailey L, Hawkins RJ, **Michener LA**, Rauh MJ. Preseason shoulder ROM screening as a predictor of injury among youth, adolescent, and professional baseball pitchers. Combined Sections Meeting of the APTA, San Diego, CA, 2013.
76. Kardouni JR, Seitz AL, Walsworth MK, **Michener LA**. Neovascularization prevalence in the supraspinatus of patients with rotator cuff tendinopathy. Combined Sections Meeting of the APTA, San Diego, CA, 2013.
77. Harrington S, **Michener LA**, Isley AL, George SZ. Acute Effects of Breast Cancer Surgery on

- Shoulder Function, Quality of Life, Range of Motion and Strength. American Society of Shoulder & Elbow Therapists Annual Conference. October 2012. Sea Island, GA.
78. Timmons MK, Grover M, Lopes-Albers A, Ericksen J, **Michener LA**. Scapular and Clavicular Kinematics During Empty and Full Can Exercises in Subjects with Subacromial Impingement Syndrome. American Society of Biomechanics, Gainesville, FL, 2012.
  79. Lopes-Albers AD, Timmons MK, Ciconelli RM, **Michener LA**. Scapular dyskinesia and the effects on scapular kinematics and muscle activity in patients with rotator cuff disease: preliminary analysis. Combined Sections Meeting of the APTA, Chicago, IL, 2012.
  80. **Michener LA**, Kardouni JR, Lopes-Albers AD, Ciconelli RM. Immediate effects of thoracic spine manipulation on active shoulder range of motion: A randomized sham-controlled study. American Society of Shoulder and Elbow Therapists, Greenbrier, WV, 2011.
  81. Lopes-Albers AD, Timmons MK, Ciconelli RM, **Michener LA**. Scapular dyskinesia and the effects on scapular kinematics and muscle activity in patients with rotator cuff disease: a pilot study. American Society of Shoulder and Elbow Therapists, Greenbrier, WV, 2011.
  82. Shanley E, Rauh M, **Michener L**, Ellenbecker T. Pitch Count And Risk Of Shoulder And Elbow Injuries In Interscholastic Softball And Baseball Players. American College of Sports Medicine Annual Meeting, June, 2011.
  83. **Michener LA**, Snyder AR, McClure PW. Clinically important difference-success (CID-Success): defining success with patient-rated outcome tools for patients with shoulder impingement syndrome. NATA Annual Meeting, New Orleans, LA, 2011.
  84. Timmons MK, Thigpen CA, Seitz AL, Karduna AR, Arnold BL, **Michener LA**. Scapular Kinematics and Subacromial Impingement Syndrome: A Meta-Analysis. NATA Annual Meeting, New Orleans, LA, 2011.
  85. Seitz AL, **Michener LA**, McClure PW, Finucane S, Lynch SS, Boardman ND. Scapular Upward Rotation and Posterior Tilt Increases Subacromial Space, But Not Muscle Performance in Subacromial Impingement Syndrome. Combined Sections Meeting of the APTA, New Orleans, LA, 2011.
  86. Shanley E, Rauh MJ, **Michener LA**, Ellenbecker TS, Garrison C, Thigpen CA. Relationship between risk of shoulder and elbow injuries and shoulder range of motion measures in high school softball and baseball players. Combined Sections Meeting of the APTA, New Orleans, LA, JOSPT, 41(1):A44, 2011.
  87. Harrington S, Padua D, Battaglini C, **Michener L**, Myers J, Giuliani C. Comparison of scapular kinematics between breast cancer survivors and healthy, age matched participants. Combined Sections Meeting of the APTA, New Orleans, LA, 2011.
  88. Seitz AL, **Michener LA**, McClure PW, Tate AR, Thigpen CA. Scapular dyskinesia in sport participants with subacromial impingement: relationship to impairments, pain, function, and rehabilitation outcome. National Athletic Trainers' Association Annual Meeting, Philadelphia, PA 2010.
  89. **Michener LA**, Walsworth MK, Doukas, WE, Murphy KP. Diagnostic Accuracy of History and Physical Examination for Categories of SLAP (Superior Labral Anterior to Posterior) Lesions of the Shoulder. National Athletic Trainers' Association Annual Meeting, Philadelphia, PA 2010.
  90. Turner GN, Tate AR, Knab SE, Jorgensen C, Strittmatter A, Hoffman R, **Michener LA**. Patterns of shoulder pain, disability, impingement, and exposure across the lifespan of female swimmers. National Athletic Trainers' Association Annual Meeting, Philadelphia, PA 2010.
  91. Shanley E, Rauh M, **Michener LA**, Ellenbecker TS. Incidence of injury in high school baseball and softball players: a one-year study. American College of Sports Medicine Annual Meeting, June, 2010.
  92. Shanley E, Rauh M, **Michener LA**, Ellenbecker TS, Thigpen C, Garrison C. Shoulder mobility and the prevalence of glenohumeral internal rotation deficit (GIRD) in high school softball and baseball players. J Orthop Sports Phys Ther 40(1):A45, 2010.

93. Tate AR, Turner G, Knab S, Jorgensen C, Strittmatter A, Hoffman R, **Michener L**, Identification of Risk Factors for Shoulder Pain in Swimmers Across the Lifespan. *J Orthop Sports Phys Ther* 40(1):A46, 2010.
94. McClure PW, Tate AR, **Michener LA**, Seitz AL, Thigpen CA, Young IA, Salvatori R. Outcomes of a standardized exercise and manual therapy program for subacromial impingement syndrome A case series. *J Orthop Sports Phys Ther* 40(1):A7, 2010.
95. Seitz AL, **Michener LA**, Lynch SS, Zirker, CA, Stith, TR, Boardman ND. Effects of scapular assistance test on acromiohumeral distance with humeral elevation measured in-vivo using ultrasonography. *J Orthop Sports Phys Ther* 40(1):A31, 2010.
96. Seitz AL, **Michener LA**, Lynch SS, Zirker, CA, Stith, TR, Boardman ND. Anterior versus posterior subacromial space changes with humeral elevation measured in-vivo using ultrasonography. *J Orthop Sports Phys Ther* 40(1):A30-31, 2010.
97. **Michener LA**, Seitz AL, McClure PW, Tate AR. Scapular dyskinesia and the scapular reposition test: the relationship to outcome in patients with impingement syndrome. *J Orthop Sports Phys Ther* 40(1):A32, 2010.
98. Shanley E, Rauh M, **Michener LA**, Ellenbecker TS, Thigpen C, Garrison C. Shoulder flexibility adaptations in high school throwers presenting with shoulder and elbow pain following one week season. American Society of Shoulder and Elbow Therapists Annual Meeting, New York, New York, September, 2009.
99. Seitz AL, **Michener LA**, Lynch SS, Zirker, CA, Stith, TR, Boardman ND. Effects of scapular assistance test on acromiohumeral distance measured in-vivo using ultrasonography. American Society of Shoulder and Elbow Therapists Annual Meeting, New York, New York, September, 2009.
100. **Michener LA**, Seitz AL, McClure PW, Tate AR. Is scapular dyskinesia relevant in patients with impingement syndrome? Scapular Summit, Lexington, KY, July, 2009.
101. **Michener LA**, Kalra N, Seitz AL, Boardman ND. Upper quadrant posture effects on subacromial space in subjects with and without rotator cuff disease using ultrasonography. NATA Annual Meeting and Symposium, June, 2009.
102. **Michener LA**, McClure PW, Tate AR, Thigpen CA, Seitz AL, Young IA, Salvatori R. Outcomes of a standardized treatment program of exercise and manual therapy for patients with subacromial impingement syndrome: a case series. NATA Annual Meeting and Symposium, June, 2009.
103. Young IA, **Michener LA**, Cleland JA, Aguilera A, Snyder AR. Manual therapy, exercise, and traction for patients with cervical radiculopathy: a randomized clinical trial. *J Orthop Sports Phys Ther.* 39(1):A17, 2009.
104. Kalra N, Seitz AL, Boardman ND, **Michener LA**. Effect of posture on acromiohumeral distance with arm elevation in subjects with and without rotator cuff disease using ultrasonography. *J Orthop Sports Phys Ther.* 39(1):A17, 2009.
105. Harrington SE, Thigpen CA, **Michener LA**, Battaglini, CL, Groff, D, Padua, DA. Effects of a 6 month rehabilitation program on Function, Strength, Quality of Life, and Range of Motion in Breast Cancer Survivors. APTA Combined Sections Meeting. Las Vegas, NV. Oncology Section, 2009.
106. Kalra N, Seitz AL, Boardman ND, **Michener LA**. Influence of posture on subacromial space. Proceedings of the Annual Meeting of American Society of Shoulder and Elbow Therapists, Santa Barbara, CA, September, 2008.
107. **Michener LA**, Walsworth MK, Doukas, WE, Murphy KP, Mielcarek BJ. Diagnostic accuracy and reliability of subacromial impingement tests. *J Orthop Sports Phys Ther.* 38(1):A28, 2008.
108. **Michener LA**, Walsworth MK, Doukas, WE, Murphy KP. Does the type of labral tear or presence of additional shoulder pathology influence the diagnostic accuracy of the clinical examination for glenoid labral tears? *J Orthop Sports Phys Ther.* 38(1):A78, 2008.
109. Young IA, **Michener LA**, Cleland JA, Aguilera AJ, Snyder AR. Conservative treatment of

- cervical radiculopathy: a case series. *J Orthop Sports Phys Ther.* 38(1):A24, 2008.
110. Harrington SE, Thigpen CA, **Michener LA**, Battaglini CL, Groff D, Padua DA. Shoulder Range of Motion and Function in Women Who Have Undergone Breast Cancer Treatment. APTA Combined Sections Meeting. Nashville, TN, 2008.
  111. **Michener LA**, Kalra N, Pinkstaff S, Ericksen J, Boardman ND. Measurement of the subacromial space using ultrasonography. *J Ath Train* 42:S-34, 2007.
  112. Thigpen CA, Padua DA, **Michener LA**, Guskiewicz KM. (Oral Presentation). Effects of Repetitive Overhead Reaching and Forward Head and Rounded Shoulder Posture on Scapular Kinematics and Muscle Activity in Healthy Shoulders. 2007 NATA 58<sup>th</sup> Annual Meeting-Symposium, Anaheim, CA. *Journal of Athletic Training* 42(2) S-15, 2007.
  113. **Michener LA**, Kalra N, Pinkstaff S, Ericksen J, Boardman ND. Ultrasonographic measurement of the acromiohumeral distance in patients with rotator cuff disease: a pilot study. *J Orthop Sports Phys Ther.* 37(1):A22-23, 2007.
  114. Thigpen CA, Padua DA, **Michener LA**, Giuliani C, Guskiewicz, Stergiou N. Effects of forward head and rounded shoulder posture on scapular kinematics and muscle activity in healthy shoulders. *J Orthop Sports Phys Ther.* 37(1):A68, 2007.
  115. Thigpen CA, Padua DA, Guskiewicz KM, **Michener LA**, Guilani C Stergiou N. Effects of Forward Head and Rounded Shoulder Posture on Three Dimensional Shoulder Coordination. International Society of Biomechanics Shoulder Group. Chicago, IL., 2006.
  116. Thigpen CA, Padua DA, Guskiewicz KM, **Michener LA**, Guilani C, Keener JD, Stergiou N. Effects of Forward Head and Rounded Shoulder Posture on Scapular Muscle Strength. 2006 American Society of Shoulder and Elbow Therapists, Chicago, IL, 2006.
  117. Thigpen CA, Padua DA, Guskiewicz KM, **Michener LA**. Three-dimensional shoulder position in individuals with and without forward head and rounded shoulder posture. National Athletic Trainers' Association 57<sup>th</sup> Annual Meeting and Clinical Symposia; *J Ath Train* 41:S-34, 2006.
  118. Walsworth MK, **Michener LA**, Murphy K, Mielcarek, BJ. Diagnostic accuracy of tests for labral tears of the glenohumeral joint. American Academy of Orthopedic Surgeons Annual Meeting, Chicago, IL; March, 2006.
  119. Beattie P, Nelson R, **Michener L**, Cammaretta J, Donely J. Short- and long-term outcomes following treatment with the VAX-D protocol for patients with chronic, activity-limiting low back pain. American Physical Therapy Association Combined Sections Meeting, JOSPT. 35(1):A40, 2005.
  120. Beattie P, Turner C, Dowda M, **Michener L**, Nelson R. The MedRisk Instrument for measuring patient satisfaction with physical therapy care: a psychometric analysis. American Physical Therapy Association Combined Sections Meeting, JOSPT. 34(1):A38, 2004.
  121. **Michener LA**, Walsworth MK, Murphy K, Mielcarek, BJ, Doukas W, Bimson W. Diagnostic accuracy of tests for labral tears of the glenohumeral joint. American Physical Therapy Association Combined Sections Meeting, JOSPT 44(1):A17, 2004.
  122. Walsworth MK, Mill JT, **Michener LA**. Diagnosing suprascapular neuropathy, a report of five cases. American Physical Therapy Association Combined Sections Meeting, JOSPT 44(1):A29, 2004.
  123. **Michener LA**, Walsworth MK, Murphy K, Mielcarek, BJ, Doukas W, Bimson W. Diagnostic accuracy of tests for labral tears of the glenohumeral joint. American Shoulder and Elbow Therapists Annual Meeting, Laguna Nigel, CA; October, 2003.
  124. Walsworth MK, Mill JT, **Michener LA**. Diagnosing suprascapular neuropathy, a report of five cases. American Shoulder and Elbow Therapists Annual Meeting, Laguna Nigel, CA; October, 2003.
  125. Gabel P, Roberts KL, **Michener LA**. Comparative performance of three regional upper limb outcome tools. American Hand Therapist Annual Meeting, Los Angeles, CA, October, 2003. *J Hand Ther.* 17(1):86, 2004.

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127. **Michener LA**, Boardman ND, Pidcoe PE, Firth AM. Reliability and validity of scapular muscle strength testing in patients with shoulder pain and functional loss. American College of Sports Medicine Annual Meeting; San Francisco, CA, June, 2003.
128. **Michener LA**, McClure PW, Turner RM, Sennett BJ, Karduna AR. Causal analysis of Nagi's disablement model in patient's with subacromial impingement syndrome. National Athletic Trainers' Annual Meeting; J Ath Train 37:S-17, 2002.
129. Breath KJ, Ashworth TA, Pidcoe, P, **Michener LA**. Reliability of scapular muscle strength testing. National Athletic Trainers' Annual Meeting; J Ath Train 37:S-68, 2002.
130. McClure PW, **Michener LA**, Sennett BJ, Karduna AR. Three dimensional scapular kinematics in patients with shoulder impingement syndrome and age matched controls. American Physical Therapy Association Combined Sections Meeting; JOSPT 32:A-8, 2002.
131. **Michener LA**, McClure PW, Sennett, BJ, Karduna AR. Relationships between impairments, three-dimensional kinematics, and self-report in patients with subacromial impingement. American Physical Therapy Association Combined Sections Meeting; JOSPT 32:A-8, 2002.
132. **Michener LA**, McClure PW, Sennett, BJ, Karduna AR. Relationships between impairments, three-dimensional kinematics, and self-report in patients with subacromial impingement. American Society of Shoulder and Elbow Therapist Annual Meeting; Napa, California; October, 2001.
133. **Michener LA**, McClure PW, Karduna AR Sennett BJ. Relationships between impairments, three-dimensional kinematics, and self-report in patients with subacromial impingement. National Athletic Trainers' Association Annual Meeting; Kansas City, KS; June, 2000.
134. **Michener LA**, McClure PW, Sennett BJ. American shoulder and elbow surgeons standardized shoulder assessment form: reliability, validity, and responsiveness. American Physical Therapy Association Combined Sections Meeting; JOSPT 30:A-30, 2000.
135. Karduna AR, McClure PW, **Michener LA**. Scapular Kinematics: Effects of Altering Euler Angle Sequence Rotations. ASME Summer Bioengineering Conference, Montana, July, 1999.
136. **Michener LA**, Sennett BJ, McClure PW, Karduna AR. Comparison of a single global rating of shoulder function score versus the american shoulder and elbow surgeons score. American Physical Therapy Association Combined Sections Meeting; JOSPT 29:A-34, 1999.
137. McClure PW, Karduna AR, **Michener LA**, Sennett BJ. Direct three-dimensional measurement of scapular kinematics during dynamic movements *in vivo*. American Physical Therapy Association Combined Sections Meeting; JOSPT 29:A-33, 1999.
138. McClure PW, Karduna AR, **Michener LA**, Sennett BJ. Direct three-dimensional measurement of scapular kinematics during dynamic movements *in vivo*. National Athletic Trainers' Association Annual Meeting, J Ath Training; 34:S-10, 1999.
139. McClure PW, Karduna AR, **Michener LA**, Sennett BJ. Direct three-dimensional measurement of scapular kinematics during dynamic movements *in vivo*. Pennsylvania Physical Therapy Association Annual Meeting, October, 1998.
140. **Michener LA**, Sennett BJ, McClure PW, Karduna AR. Comparison of a single global rating of shoulder function score versus the american shoulder and elbow surgeons score. Pennsylvania Physical Therapy Association Annual Meeting, 1998.
141. Karduna AR, McClure PW, **Michener LA**, Sennett, BJ. A novel technique for assessing three-dimensional scapulohumeral kinematics. American Physical Therapy Association Combined Sections Meeting; JOSPT 27:66, 1998.
142. Oatis CA, Lockard MA, **Michener LA**. Correlations among gait parameters, quantified joint stiffness and self-reports of impairment and disability in subjects with knee osteoarthritis. American Physical Therapy Association Scientific Meeting and Exposition; Phys Ther 77:S77, 1997.

143. **Michener LA**, Silfies SA, Hutchinson D, McClure PW. Accuracy of the Metrecom Skeletal Analysis System for linear and angular measures. American Physical Therapy Association Combined Sections Meeting; JOSPT 25: 67, 1997.
144. **Michener LA**, Fialokowski DA. Effectiveness of a six-week lower extremity plyometric program on strength and power. American Physical Therapy Association Scientific Meeting and Exposition, 1997.
145. **Michener LA**, Fialokowski DA. Effectiveness of a six-week lower extremity plyometric program on strength and power. National Athletic Trainers' Association Annual Meeting, 1997.

## MAJOR COMMITTEES

### Doctoral and Post-Doctoral Student Committees

#### Chair:

##### Current:

##### *Doctoral:*

Matt Heindel, PT, DPT; PhD student in Biokinesiology, University of Southern California, 2021 – present.

Adam Barrack, PhD candidate in Biokinesiology, University of Southern California, 2020 – present. (Co-Mentor with Dr. Chris Powers)

Oscar Vila Dieguez, PT, MS; PhD candidate in Biokinesiology, University of Southern California, 2020 – present.

##### Past:

##### *Post-Doctoral:*

Amy Hegarty, PhD, Post-doctoral fellow, University of Southern California, 2018 – 2021.  
Funding: The Charles and Mary Bauer Foundation. (Co-Chair: Jason Kutch, PhD)  
“Optimization of spinal manipulation for shoulder pain”

Catarina de Oliveira Sousa, PhD, PT, Post-doctoral fellow, Un Southern California, 2018-2019. Funding: CAPES Fellowship, Brazil. “Development, Reliability and Validation of a functional performance test in patients with shoulder pain”

Hillary Plummer, PhD, ATC, Post-doctoral fellow, Un Southern California, 2015- 17.  
Funding: Barbara Fried, Fried Companies, Inc. / Division of Biokinesiology and Physical Therapy. "Treatment of Full-thickness Rotator Cuff Tears with a Closed-Chain Stabilization Approach"

Federico Pozzi, PhD, PT, Post-doctoral fellow, Un Southern California, 2015- 18.  
Funding: Barbara Fried, Fried Companies, Inc. / Division of Biokinesiology and Physical Therapy. "Treatment of Full-thickness Rotator Cuff Tears with a Closed-Chain Stabilization Approach"

Sevgi S Subasi, PhD, PT; PhD, Post-doctoral fellow, Virginia Commonwealth University, 2011- 2012.  
"Subacromial space and rotator cuff tendon dimensions in patients with subacromial impingement syndrome"

Mark K Timmons, PhD, ATC, Post-doctoral fellow, Veterans Administration- Polytrauma Fellowship, 2009- 2012. Funding: Department of Veterans Health Administration.  
"Biomechanical and Ultrasonographic Assessment of Shoulder Pathology in Polytrauma"

Alison R Snyder, PhD, Post-doctoral fellow, VCU and AT Still University, 2006-09.  
Funding: National Athletic Trainers' Assoc- Research & Education Foundation  
"Outcomes Research in Athletic Training"



*Doctoral*

- Joseph R Kardouni, PhD, PT; PhD in Rehabilitation & Movement Science, Virginia Commonwealth University, 2014. "Effects of Thoracic Spinal Manipulative Therapy on Thoracic Spine and Shoulder Kinematics, Thoracic Spine Flexion/Extension Excursion, and Pressure Pain Sensitivity in Patients with Subacromial Pain Syndrome"
- Amee L Seitz, PT, PhD; PhD in Rehabilitation and Movement Science, Virginia Commonwealth University, 2010. "Mechanisms of Rotator Cuff Disease: Alterations of Scapular Kinematics on Subacromial Space"
- Ian A Young, DSc in Orthopedic Physical Therapy, Rocky Mountain University of Health Professions, 2008. "Exercise, manual therapy, and traction for patients with cervical radiculopathy: A randomized clinical trial"

*Masters*

- Daniel Awokuse, BS; MS in Biokinesiology, University of Southern California, 2023.
- Sapna Sharma, MS in Biokinesiology, University of Southern California, 2017.
- Nitin Kalra, MS, Anatomy and Neurobiology, Virginia Commonwealth University, 2009.

**Committee Member:**

- Jaqui Wang, PhD candidate in Biokinesiology, University of Southern California ; 2020 – 2023.
- Garry Cai, PhD candidate in Biokinesiology, University of Southern California ; 2020 – 2023.
- Rachel Straub, PhD-candidate in Biokinesiology, University of Southern California ; 2017 – 2023.
- Brian Cohen, PhD-candidate in Computer Science, University of Southern California; 2019 – 2020.
- Akira Nagamori, PhD- candidate in Biokinesiology, University of Southern California; 2017 – 2020.
- Eric L Lippincott, PhD, Physical Therapy – Nova Southeastern, Ft. Lauderdale, FL; 2017. "Predictors of shoulder injuries in female collegiate swimmers over the course of a competitive swim season"
- Timothy G Coffey, PhD, Rehabilitation and Movement Science Program - Virginia Commonwealth University, 2015. "Effects of task and gender on lower extremity mechanics"
- Rogelio Coronado, PhD, Rehabilitation Science Program – University of Florida, 2014. "Cervical and shoulder manipulative therapy effects on pain sensitivity"
- Adam P Sima, PhD, Biostatistics, Department of Biostatistics – Virginia Commonwealth University, 2013. "Accounting for Model Uncertainty in Linear Mixed-Effects Models"
- Ellen Shanley, PhD, Orthopedic and Sports Science, Rocky Mountain University of Health Professions, 2011. "An epidemiological investigation of injury among high school windmill softball and baseball players".
- Shana Harrington, PhD, Interdisciplinary Human Movement Science, University of North Carolina at Chapel Hill, 2009. "Comparison of Shoulder Kinematics, Flexibility, Strength, and Function between Breast Cancer Survivors and Healthy Participants"
- Chuck A Thigpen, PhD, Interdisciplinary Human Movement Science, University of North Carolina at Chapel Hill, 2006. "Effects of forward head and rounded shoulder posture on scapular kinematics, muscle activity, and shoulder coordination"
- Thomas Turner, PhD, Anatomy and Neurobiology, Virginia Commonwealth University, 2004. "Effects of therapeutic ultrasound on cytokine induction in human monocytes"

**Collaborator:**

- Andrea Diniz Lopes Albers, PhD Federal University of Sao Paulo, Brazil, 2011-2. " Scapular dyskinesis: does this relate to pain, disability, and impairments?" 1 year research fellowship (receipt of CAPES scholarship for research).
- Catarina de Oliveira Sousa, PhD, Federal University of Sao Carlos, Brazil, 2012-3. "Motion of the shoulder complex in individuals with isolated acromioclavicular osteoarthritis and associated with rotator cuff dysfunction: kinematics and muscle activity". 1 year research fellowship (receipt of CAPES scholarship for research).

**International Programs**

Director, International Partnership for VCU-Curtin Partnership, Perth, Australia.  
2007 – 2014

**PhD Sandwich Program**

1-year Brazilian government program: provides supports for 1-year study abroad in a research laboratory for Brazilian PhD student who is already enrolled in a PhD program in Brazil.

Andrea Diniz Lopes-Albers, PhD student – Federal University of São Paulo-UNIFESP, Brazil; 2011 – 2012.

Catarina de Oliverira Sousa; PhD student - Federal University of São Carlos, Brazil; 2012 – 2013.

**School / Division / Department Committees**

University of Southern California

Director of Clinical Outcomes and Research, Division of Biokinesiology and Physical Therapy, University of Southern California, 2014 – present.

Director of Research Advancement, Division of Biokinesiology and Physical Therapy, University of Southern California, 2020 – present.

Member, Division Level – Clinical Management Team, Division of Biokinesiology and Physical Therapy, University of Southern California, 2017 – present.

Member, Research Advisory Committee, Division of Biokinesiology and Physical Therapy, University of Southern California, 2014 – present.

Chair, Faculty Council, Division of Biokinesiology and Physical Therapy, University of Southern California, 2018 – 2020.

Chair, Faculty Affairs Committee, Division of Biokinesiology and Physical Therapy, University of Southern California, 2017– 2018.

Member, Continuing Education Steering Committee, Division of Biokinesiology and Physical Therapy, University of Southern California, 2017 – 2020.

Member, Faculty Affairs Committee, Division of Biokinesiology and Physical Therapy, University of Southern California, 2016 – 2017.

Poster Judge, Denistry Research Day, Herman Ostrow School of Denistry, University of Southern California, 2015 – 2017.

Virginia Commonwealth University

Chair; Resource, Service and Development Committee, Department of Physical Therapy, Virginia Commonwealth University, MCV Campus, 2004 - 2010.

Member, Resource, Service and Development Committee, Department of Physical Therapy, Virginia Commonwealth University, Medical College of Virginia Campus, 2003 - 2014.

Member, Advanced Graduate Studies and Research Committee, Department of Physical Therapy, Virginia Commonwealth University, Medical College of Virginia Campus, 2001 - 2014.

Member, Admissions Committee, REMS Interdisciplinary Doctoral Program, Virginia Commonwealth University, 2006 – 2007; 2009 – 2010, 2012 – 2013.  
Member, Search Committee, Department of Physical Therapy, Virginia Commonwealth University, Medical College of Virginia Campus, 2005.  
Member, Professional Programs Curriculum Committee, Department of Physical Therapy, Virginia Commonwealth University, Medical College of Virginia Campus, 1999 - 2003.  
Member, Interdisciplinary Seminar Series; College of Allied Health Professions, Virginia Commonwealth University, 2001 – 2006.  
Secretary, School of Allied Health Professions, Virginia Commonwealth University, Medical College of Virginia Campus, 2003 – 2006.

### **University Committees**

#### Virginia Commonwealth University

Member, Provost's Global Advisory Council, Virginia Commonwealth Un, 2007–2014.  
Member, University Promotion and Tenure Committee, VCU. 2009 –2012.  
Faculty Senate Alternate, Virginia Commonwealth University; 2000 –2003.  
Member, University Council, Virginia Commonwealth University, 2004–06; 2007 –09.  
Rhoades, Mitchell, Marshall Scholarship Selection Committee, VCU Honors College; 2009 –2010.

### **State and Regional Committees**

Co-Chairperson; Pennsylvania Athletic Trainers' Association Convention Committee for the Annual Symposium, 1994.  
Member; Pennsylvania Athletic Trainers' Association Convention Committee for the Annual Symposium, 1992 – 1994.

### **National and International Committees**

International Congress of Shoulder and Elbow Therapy  
Executive Board, 2012 – Present

American Society of Shoulder and Elbow Therapists  
Member at Large (elected), 2015 – 2017; and 2004 - 2006  
Research Committee  
Chair, 2003 – 2004

National Athletic Trainers' Association Research Foundation- Research Committee  
Member, 2014 – 2023  
Vice-Chair Public Relations, 2020 - 2023

American Physical Therapy Association  
Task Force on Benchmarks for Scholarship, Research Intensive Physical Therapy Program Consortium  
Member, 2013 – 2015  
Awards Committee – Subcommittee on Publications  
Member, 2011 – 2013

Orthopaedic Section / Academy of Orthopaedic Physical Therapy of the APTA  
Vice-President - elected  
2017 – 2023  
Research Committee  
Member, 2001 – 2006  
Chair, 2006 – 2013

Board Member, Research Committee Chair  
Member, 2006 – 2013  
National Orthopaedic Physical Therapy Outcomes Database  
Member, 2010- present  
Shoulder Clinical Practice Guidelines Committee  
Member, 2006 – 2016  
Chair, 2016 – present  
Advisory Board – Home Study Courses  
Member, 2014 – 2017  
Annual Meeting Committee  
Member, 2015 – 2017  
Advisory Board for the Clinical Research Network Grant  
Chair, 2012 – 2017

Examiner; National Athletic Trainers' Association Board of Certification; 1993 to 2002.

Item Writer; Specialization Academy of Content Experts, American Board of Physical Therapy Specialties; 2003 - 2004.

Item Writer; Item Writer and Review Committee for the National Physical Therapy Examination; 2001 - 2002.