

Keri L. Denay, MD, FACSM
Assistant Professor

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Education and Training

Education

09/1999-05/2003 BS, Biopsychology and Cognitive Sciences, University Of Michigan, Ann Arbor, Michigan
08/2003-05/2007 MD, University of Michigan Medical School, Ann Arbor, Michigan

PostDoctoral Training

06/2007-06/2010 Residency, Department of Family Medicine, University of Michigan Medical School, Ann Arbor, Michigan
07/2010-06/2011 Fellowship, Sports Medicine, Department of Family Medicine, University of Michigan Medical School, Ann Arbor, Michigan

Additional Education

09/2009-05/2010 Faculty Development Institute, Department of Family Medicine, University of Michigan Medical School, Ann Arbor, Michigan

Certification And Licensure

Certification

06/2007-present Advanced Cardiovascular Life Support
07/2010-present Diplomat, American Board of Family Medicine
01/2011-present American Board of Family Medicine (Certificate of Added Qualification in Sports Medicine)
01/2018-present SafeSport Trained/Certified - U.S. Center for SafeSport
01/2020-present Certificate of Completion, American Society for Addiction Medicine - Treatment of Opioid Use Disorder Course

Licensure

04/2010-04/2023 State of Michigan, Controlled Substance
04/2010-04/2023 State of Michigan, Medical License
04/2011-06/2020 State of Michigan, DEA Registration

Academic, Administrative, Clinical, Research and Military Appointments

Academic Appointments

08/2011-12/2015 Clinical Lecturer, Department of Family Medicine, University of Michigan Medical School, Ann Arbor, Michigan
01/2016-present Clinical Assistant Professor, Department of Family Medicine, University of Michigan Medical School, Ann Arbor, Michigan

Administrative Appointments

10/2012-10/2013 Director, Medical Student Sports Medicine Elective, University of Michigan Medical School, Ann Arbor, Michigan
07/2014-present Director, Primary Care Sports Medicine Fellowship, Department of Family Medicine, University of Michigan Medical School, Ann Arbor, Michigan
10/2019 Educational Planner, The Artist IS an Athlete Performing Arts Medicine Symposium, University of Michigan, Medsport and University of Michigan School of Music, Theater, and Dance, Ann Arbor, Michigan

11/2019-present Medical Director, Briarwood Family Medicine Center, University of Michigan Medical School, Ann Arbor, Michigan

Clinical Appointments

08/2011-present Team Physician, Eastern Michigan University, Ypsilanti, Michigan
08/2011-present Attending Physician, Briarwood Family Medicine Center, University of Michigan Medical School, Ann Arbor, Michigan
08/2011-present Attending Physician, St. Joseph Mercy Health System - Chelsea, Chelsea, Michigan
01/2013-06/2014 Attending Physician, Musculoskeletal Arthritis Clinic, Department of Orthopaedic Surgery, University of Michigan Health System, Ann Arbor, Michigan
02/2019-present Attending Physician, Michigan Center for Human Athletic Medicine and Performance (MCHAMP), University of Michigan, Ann Arbor, Michigan

Research Interests

- 2013 – 2015 Principal Investigator, Vitamin D Supplementation and Performance in Collegiate Athletes – University of Michigan Athletics (IRB approved # HUM00074016)
- 2013 – 2015 Co-Investigator, Evaluation of Pre-clinical Medical Students Enrolled in Family Medicine or Sports Medicine Electives Taught by a Family Medicine Instructor (IRB exempt # HUM00078810)
- 2015 – 2017 Faculty Advisor, Pre-Participation Physical Examinations: Are They Interfering with Adolescent Well Care? (IRB exempt # HUM00107328)
- 2016 – Present Co-Investigator, Imaging of Injuries of the Female Athlete: A Review (IRB#: HUM00120040)
- 2016 - 2017 Faculty Advisor, Prevalence of Concussion and Under-Reporting in College Wrestlers - An Observational Cross Sectional Study. (IRB exempt #: HUM00122281)
- 2017 – 2018 Faculty Advisor, Impact of PHQ-2 on Student Athlete Population at Division I University (IRB#: HUM00137342)
- 2018 – 2019 Faculty Advisor, Preseason Sports Related Concussion Rates in a Division I Football Program: An Assessment of the Recently Implemented NCAA Preseason Football Practice Schedule Policy (IRB#: HUM00154104)
- 2019 – Present Faculty Advisor, Bridging the Gap: Improving Patient Knowledge of Cast Care and Risks Following Fracture Treatment (IRB#: HUM00166772)
- 2019 – Present Principal Investigator, Adult Physical Activity Education and Motivation (IRB#: HUM00165105)
- 2019 – Present Faculty Advisor, Creating a Novel Screening Tool for Eating Disorders and Behaviors of Disordered Eating in Athletes (IRB#: HUM00167834)
- 2019 - Present Faculty Advisor, Sport Specialization and Development of Depression and Burnout (IRB#: HUM00167887)
- 2020 – Present Co-Investigator, The concordance of vaginal and urine self-sampling methods for high risk HPV detection (IRB#: HUM000163299)

Honors and Awards

National

2000 National Synchronized Skating Championships Competitor
2001 National Intercollegiate Figure Skating Champion
2001 National Synchronized Skating Championships, Competitor
2002 National Intercollegiate Figure Skating Champion

Regional

2013 Blue Care Network of Michigan Blue Ribbon Doctor Award

Institutional

1999-2003 Alvin M. and Arvella D. Bentley Society Scholarship Recipient, University of Michigan
1999-2003 Dean's Merit Scholarship Recipient, University of Michigan

1999-present	Alvin M. and Arvella D. Bentley Society Member, University of Michigan
2000-2001	University of Michigan Synchronized Skating Team Co-Captain
2000	University of Michigan Figure Skating Team Most Conference Points Earned
2002-2003	University of Michigan Figure Skating Team, Co-Captain
2002-present	Psi Chi National Honor Society in Psychology
2006-2007	Dr. Hugh and Priscilla McEachran Scholarship, University of Michigan Medical School

Memberships in Professional Societies

1983-present	Member, U. S. Figure Skating
2003-2007	National Primary Care Week Co-coordinator and Member, American Medical Student Association
2003-present	Member, American Academy of Family Physicians
2007-present	Member, University of Michigan Medical Center Alumni Society
2009-present	Member, American Medical Society for Sports Medicine
2010-present	Member, American College of Sports Medicine
2012-present	Physician Member, U. S. Figure Skating Sports Sciences and Medicine National Network
2014-2015	Member, American Institute of Ultrasound Medicine
2015-present	Member, Midwest Regional Chapter of the American College of Sports Medicine
2015-present	Physician, United States Olympic Committee Sports Medical Volunteer Program
2017-present	Fellow, American College of Sports Medicine

Editorial Positions, Boards, and Peer-Review Service

Journal Reviewer

2016-2018	Reviewer, Sports Review Journal (Ad Hoc)
2016-present	Reviewer, American Family Physician (Ad Hoc)
2016-present	Reviewer, Current Sports Medicine Reports (Ad Hoc)
2017-present	Reviewer, Medicine & Science in Sports & Exercise (Ad Hoc)
2018-present	Reviewer, Sports Health (Ad Hoc)

Teaching Activity

National

04/2011	An Unusual Cause of Anterolateral Knee Symptoms, American Medical Society for Sports Medicine Annual Meeting, Salt Lake City, Utah
04/2013	A Mystery Foot Mass, American Medical Society for Sports Medicine, San Diego, California
05/2013	Death Drop Proves Deadly for Ankle, U.S. Figure Skating Sports Medicine and Science of Figure Skating Symposium, Chicago, Illinois
04/2014	Recurrent Shin Splints?, American Medical Society for Sports Medicine, New Orleans, Louisiana
04/2014	Atypical Foot Pain, American Medical Society for Sports Medicine, New Orleans, Louisiana

Institutional

10/2010	Bigger, Faster, Stronger: A Primer on Ergogenic Aids. Sports Medicine Update for the Primary Care Physician, University of Michigan
10/2011	To Play or Not to Play, That is the Question: An Update on Pre-Participation Physical Exams, Sports Medicine Update for the Primary Care Physician, Ann Arbor, Michigan
10/2012	Cardiovascular Clearance for Physical Activity: Pediatrics to Geriatrics, Sports Medicine Update for the Primary Care Physician, Ann Arbor, Michigan

10/2012	Bigger, Faster, Stronger: A Primer on Ergogenic Aids , Sports Medicine Update for the Primary Care Physician, Ann Arbor, Michigan
12/2012	Osteoarthritis: How to Avoid Being Scared Stiff, Primary Health Care of Women Conference, Ann Arbor, Michigan
10/2013	Preparticipation Cardiovascular Screening in Athletes, Sports Medicine Update for the Primary Care Physician, Ann Arbor, Michigan
10/2015	Exercise IS Medicine, Sports Medicine Update for the Primary Care Physician, Ann Arbor, Michigan
03/2016	The Terrible Triad (Female Athlete Triad), University of Michigan Department of Kinesiology Physical Activity and Nutrition Graduate Student Course Lecturer, Ann Arbor, Michigan
10/2016	Exercise IS Medicine, Sports Medicine Update for the Primary Care Physician, Ann Arbor, Michigan
10/2017	Cardiovascular Screening, University of Michigan Sports Medicine Update for the Primary Care Physician, Ann Arbor, Michigan
03/2018	The Terrible Triad (Female Athlete Triad), University of Michigan Department of Kinesiology Physical Activity and Nutrition Graduate Student Course Lecturer, Ann Arbor, Michigan
10/2018	Exercise: A Prescription with Unlimited Refills, University of Michigan Medical School, Department of Family Medicine Grand Rounds, Ann Arbor, Michigan
10/2018	Exercise: A Prescription with Unlimited Refills, University of Michigan Medical School Update, for the Primary Care Physician, Ann Arbor, Michigan
03/2019	The Terrible Triad (Female Athlete Triad), University of Michigan Department of Kinesiology Physical Activity and Nutrition Graduate Student Course Lecturer, Ann Arbor, Michigan
10/2019	Female Athlete Triad. The Artist Is an Athlete Performing Arts Medicine Symposium, UNiversity of Michigan MedSport and University of Michigan School of Music, Theater, and Dance, Ann Arbor, Michigan
10/2019	Learn More to Move More: An Update on the National Physical Activity Guidelines, University of Michigan Medical School Sports Medicine for the Primary Care Physician, Ann Arbor, Michigan
03/2020	AnUpdate of the Female Athlete Triad/RED-S, Women is Sports Medicine Symposium. University of Michigan, Ann Arbor, Michigan

Committee and Administrative Services

Committee Services

International

2019-2020 US Figure Skating, World Team Physician

National

2014-2015 Education Committee, American Medical Society for Sports Medicine
2015-present Exercise is Medicine Committee, Midwest American College of Sports Medicine, Member
2015-present Practice and Policy Committee, American Medical Society for Sports Medicine, Member
2015-present United States Figure Skating National Provider Network, Member
2015-present Volunteer United States Olympic Committee Sports Medical Volunteer Program, .
2016-present American Medical Society for Sports Medicine, Appointed State Legislative Contact
2016-present Exercise is Medicine, American College of Sports Medicine, Ambassador
2016-present Exercise is Medicine, Clinical Practice Committee, American College of Sports Medicine, Appointed Member
2017-present American Medical Society for Sports Medicine, State Legislative Contact
2019-2022 American College of Sports Medicine Exercise is Medicine Clinical Practice Committee, Reappointed Member for second term

2019-2022	Board of Directors, Midwest American College of Sports Medicine, Member-At-Large
2019-2022	Midwest American College of Sports Medicine Board of Directors, Elected Member-at-Large
2019-present	Exercise is Medicine Committee, Midwest American College of Sports Medicine, Chair

Regional

2017-present	American Medical Society for Sports Medicine, State Legislative Contact
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Institutional

2003-2007	University of Michigan Medical School Family Medicine Interest Group, Member and Co-Chair
2008-2010	Residency Recruitment Committee, Department of Family Medicine, University of Michigan Medical School, Ann Arbor, Michigan
2011-2013	Patient Care Committee, Briarwood Family Medicine, University of Michigan Health Systems, Ann Arbor, Michigan
2013-2014	Compensation Task Force, Department of Family Medicine, University of Michigan Medical School, Ann Arbor, Michigan
2014-present	Clinical Competency Committee, Sports Medicine Fellowship Program, Department of Family Medicine, University of Michigan Medical School, Ann Arbor, Michigan
2014-present	Educational Steering Committee, Department of Family Medicine, University of Michigan Medical School, Ann Arbor, Michigan.
2014-present	Program Evaluation Committee, Sports Medicine Fellowship Program, Department of Family Medicine, University of Michigan Medical School, Ann Arbor, Michigan
2015-present	Exercise is Medicine Committee, Member
2015-present	Practice and Policy Committee, Member
2016-present	Exercise is Medicine on Campus, University of Michigan, Faculty Advisor
2016-present	Lead Physical Activity as a Vital Sign Interdepartmental Committee, University of Michigan Medical School, .
2016-present	Member Steering Committee, Comprehensive Musculoskeletal Center, University of Michigan, .

Administrative Services

Volunteer

2011-present	Supervising Physician, Pre-participation Physical Examinations, Pioneer and Skyline High Schools, Ann Arbor, Michigan
2015-present	Physician, Olympic Committee, United States, Sports Medical Volunteer Program
2018-present	Team USA Physician, U.S. Figure Skating, United States, Figure Skating Competitions
2018-present	World Team Physician, U.S. Figure Skating, World, Figure Skating Competitions
2019	Head Team Physician, U.S. Figure Skating, Rockville, Maryland, Athlete Development Camp
2019	Physician Chief Medical Office (CMO), U.S. Figure Skating, Detroit, Michigan, National Championships
2019	Physician Chief Medical Officer (CMO), U.S. Figure Skating, East Lansing, Michigan, Eastern Great Lakes Regional Singles and Midwestern Sectional Dance Championships
2019	Physician Chief Medical Officer (CMO), U.S. Synchronized Skating, Plymouth, Michigan, National Championships
2019	Team USA Physician, U.S. Figure Skating, Milan, Italy, Synchronized Skating Spring Cup
2020	World Team USA Physician, U.S. Figure Skating, Nottingham, Great Britain, World Junior Synchronized Skating Championships

Visiting Professorships and Extramural Invited Presentations

Extramural Invited Presentations

1. **Denay KL** Housner JA, Sabb BJ, An Unusual Cause of Anterolateral Knee Symptoms, American Medical Society for Sports Medicine Annual Meeting, April 2011, Salt Lake City, Utah
2. **Denay KL** Traumatic Knee Effusion, Midwest American College of Sports Medicine Regional Chapter Annual Meeting, November 2015, Fort Wayne, Indiana
3. **Denay KL** Housner JA, Mandel C, Miller AC, Schmidt P, Kiningham R. Vitamin D Supplementation Mitigates the Seasonal Variability of Serum Vitamin D Levels in Collegiate Athletes Training at Northern Latitude, American Medical Society for Sports Medicine Annual Meeting, April 2016, Dallas, Texas
4. **Denay KL** Traumatic Knee Effusion, American College of Sports Medicine Annual Meeting, May 2016, Boston, Massachusetts
5. **Denay KL** Exercise IS Medicine, University of Michigan Medical School Sports Medicine Update for the Primary Care Physician, October 2016, Ann Arbor, Michigan
6. Shampain K, Udager K, **Denay KL**, Yablon C. Injuries of the Female Athlete: A Review of Imaging Findings, American Roentgen Ray Society Annual Meeting, May 2017, New Orleans, Louisiana
7. Berri, H, **Denay KL** Weak in the Knees, American Medical Society for Sports Medicine Annual Meeting, May 2017, San Diego, California
8. Rubin, S, **Denay KL**, Lueders D. Right Forearm Pain in a Competitive Fisherman, American Medical Society for Sports Medicine Annual Meeting, April 2018, Lake Buena Vista, Florida
9. **Denay, KL**. Don't Old Women Get That? An Older Female Issue in a Younger Man, Midwest American College of Sports Medicine Annual Meeting, November 2018, Grand Rapids, Michigan
10. Anacker M, **Denay K**. Chest Pain in a Football Strength Coach, American College of Sports Medicine Annual Meeting, May 2019, Orlando, Florida
11. Martin ER, **Denay KL**. Unusual Presentation of an Increasingly Common Infection, American College of Sports Medicine Annual Meeting, May 2019, Orlando, Florida
12. **Denay KL**. A Typically Female Hip Issue in a Male Basketball Coach, American College of Sports Medicine Annual Meeting, May 2019, Orlando, Florida
13. **Denay KL**. Meaningful Knee Mass?, Midwest American College of Sports Medicine Annual Meeting, November 2019, Oak Brook, Illinois
14. Sweeney EA, Wilson JC, Potter, MN, Dahab KS, **Denay KL**, Howell DR. January 2020. Symptom Profiles and Balance Control After Concussion in Female Youth Artistic Athletes, Pediatric Research in Sports Medicine Society Annual Meeting, January 2020, Glendale, Arizona
15. **Denay KL**, Ballantine-Talmadge S, Miskovsky S. Training as Treatment? (Presented Virtually Due to Covid 19)., American Medical Society for Sports Medicine Annual Meeting, April 2020, Atlanta, Georgia
16. Riederer M, Northway R, **Denay K**. Management of Acute Sports-Related Finger, Hand, and Wrist Injuries and Fractures Symposium: Common Adult Finger Injuries. (Did not Present Due to Covid 19)., American College of Sports Medicine Annual Meeting, May 2020, San Francisco, California
17. **Denay KL**. Meaningful Knee Mass? (Did not Present Due to Covid 19)., American College of Sports Medicine Annual Meeting, May 2020, San Francisco, California
18. Joy E, Linke S, Asif I, **Denay K**, Shook R. Exercise is Medicine Symposium: Implementing and Evaluating the Physical Activity Vital Sign and Exercise is Medicine in 4 Healthcare Systems across the US. Integrating Physical Activity as a Vital Sign at the University of Michigan. (Did not Present Due to Covid 19)., American College of Sports Medicine Annual Meeting, May 2020, San Francisco, California

Bibliography

Peer-Reviewed Journals and Publications

1. **Denay KL**, Johansen M: Common questions about pacemakers American Family Physician 89(4): 279-82, 2014. PM24695448/24695448
2. **Denay KL**, Housner JA, Mandel C, Miller AC, Schmidt P, Kiningham R.: Vitamin D Supplementation Mitigates the Seasonal Variability of Serum Vitamin D Levels in Collegiate Athletes Training at Northern Latitude. Clin J Sport Med 26(2): e28-e29, 2016.

3. Shultz, CG, Cooke, JM, **Denay, KL**, Llanes, M, Zazove, P, Kelley, SA.: The Effect of Simulation-based Training on Medical Students' Perceptions, Knowledge, and Skill at Baseline and 6-month Follow-up. *International Journal of Innovation Education and Research*. 4: 151-165, 2016.
4. **Denay, KL**: Traumatic Knee Effusion? *Med Sci Sports Exer* 48(5): S135, 2016.
5. **Denay KL**: Stress Fractures *Curr Sports Med Rep* 16(1): 7-8, 2017. 28067732
6. Shampain K, Gaetke-Udager K, Leschied JR, Meyer NB, Hammer MR, **Denay KL**, Yablon CM.: Injuries of the pediatric girl athlete: a review of imaging findings. *Skeletal Radiology* 48: 77-88, 2018. 30123946
7. Anacker M and **Denay KL**: Chest Pain in a Football Strength Coach. *Med Sci Sports Exer* 51(6): 451, 2019.
8. **Denay KL**: A Typically Female Hip Issue in a Male Basketball Coach *Med Sci Sports Exer* 51(6): 180, 2019.
9. **Denay, KL**, Ballantine-Talmadge S, Miskovsky S.: Training as Treatment *Clin J Sport Med*. 30(2): e40-41, 2020.
10. **Denay, KL**.: Meaningful Knee Mass? *Med Sci Sports Exer*. 52(5): S403, 2020.
11. Hilgefert JP, Murphy C, Miller, A, **Denay KL**: Diarrhea (Infectious Disease)-Swimming and Diving *Med Sci Sports Exer*. 52(5): S518, 2020.
12. 4. Sweeney, EA, Wilson JC, Potter MN, Dahab KS, **Denay KL**, Howell DR: Profiles and postural control after concussion in female artistic athletes *Brain Injury* 00(00): 1-6, 2020.

Book Chapters

1. **Denay, KL** and Martin ER: Concussion Diagnostic Imaging Options. *Concussion Management for Primary Care: Evidence Based Answers to Cases and Questions*, Patel, Deepak S. Springer, 2020. 7

Other Media

Original contribution

1. **Denay KL**.: A Clinician's Thoughts about Self Care and Physical Activity during COVID., American College of Sports Medicine Exercise Is Medicine® website invited blog post [Internet]. Available from: https://www.exerciseismedicine.org/support_page.php/stories/, 2020.

Provider educational material

1. **Denay KL**, Housner JA, Sabb BJ: Case Study: An Unusual Cause of Anterolateral Knee Symptoms, American Medical Society for Sports Medicine; Leawood, KS [Internet]. 2011. Available from: <http://www.amssm.org/an-unusual-cause-of-anter-csa-65.html?StartPos=10&Part=1>., American Medical Society for Sports Medicine, 2011.
2. **Denay KL**: Case Study: A Mystery Foot Mass, Available from: http://www.amssm.org/a_mystery_foot_mass-csa-177.html?StartPos=10&Part=, American Medical Society for Sports Medicine, 2013.