

# Aaron Joseph Provance MD, FAAP, CAQSM

Sports Medicine Center  
Orthopedic Institute  
Children's Hospital Colorado  
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- Education** West Virginia University 1995-1999  
BA Chemistry  
*Magna cum laude*
- Medical Education** West Virginia University School of Medicine 1999-2003  
MD degree
- Residency** Pediatrics 2003-2006  
West Virginia University Hospitals  
Morgantown, WV
- Fellowship** Pediatric Sports Medicine 2006-2007  
University of Colorado/Children's Hospital Colorado  
Denver, CO
- Faculty** Children's Hospital Colorado 2007-present  
Department of Orthopedics, Associate Professor  
Medical Director, Sports Medicine Center 2010-present  
Primary Care Medical Director, Pediatric Orthopedics,  
2019-present  
Medical Director of Athletics, Adams 12 Five Star School  
District 2010-present  
Medical Director of Athletics, Douglas County School  
District 2015-2016  
Co-Director, Concussion Program 2009-2013  
Assistant Director, Pediatric Sports Medicine Fellowship  
2010-2012
- Children's Hospital Colorado 2007-2008  
Department of Pediatrics, Senior Instructor  
Urgent Care Physician  
Denver, CO
- Honors and Awards** "Best of POSNA 2020" *Journal of Pediatric Orthopaedics*  
Podcast, Top Research Papers in Sports SubSpecialty Day,  
POSNA Annual Meeting 2020 (virtual)

“Hank Chambers Award for Best Scientific Paper” PRISM Annual Meeting, co-author 2019  
“Patient-Family Experience Award” CHCO 2017  
Colorado Athletic Directors Association “Distinguished Service Award” 2015  
Named “Top Doc” in 2014 by 5280 Magazine  
National Athletic Trainers' Association - Safe Sports School Awards at all Adams 12 Five Star High Schools - Medical Director for Athletics 2013  
Pillar Award-Concussion Program 2012  
Continuous Process Improvement Team-Project Champion for Sports Medicine Pilot Clinic Efficiency 2012  
Jackson Healthcare Award-Concussion Program 2012  
Fellow American Academy of Pediatrics 2010  
Continuous Process Improvement Team-Project Champion for Orthopedic Scheduling 2009-2010  
Continuous Process Improvement Team-Project Champion for Orthopedic Workroom 2008-2009  
Pediatric Education Committee ACGME Resident Representative 2005-2006  
Outstanding Resident in Ambulatory Pediatrics 2004-2005  
President Wilderness Medical Society at WVU 2002  
First Place in Biological Platform Presentation at the 16<sup>th</sup> Annual Symposium on Advances in Microscopy 1998

**Professional Memberships** International Society for Skiing Safety 2017-present  
Pediatric Research in Sports Medicine 2015-present  
Pediatric Orthopaedic Society of North America 2012-present  
Colorado Orthopaedic Society 2012-present  
American College of Sports Medicine 2007-present  
American Medical Society Sports Medicine 2005-present  
American Academy of Pediatrics 2003-2006, 2010-2014, 2016-present  
AAP Council on Sports Medicine and Fitness 2010-2014, 2016-present  
Colorado Special Interest Group on Youth Concussions 2010-2014  
American Medical Association 1999-2006  
Mountaineer Area Rescue Group 2000-2003  
Wilderness Medical Society 1999-2003

**Professional Committees** CHSAA Resocialization to Activities Task Force 2020  
Delivering on the Promise: Telemedicine at North and South Campus Task Force 2020  
Pediatric Ortho Financial COVID-19 Subcommittee 2020

CU Ortho Finance and Incentive Task Force 2019  
 CHCO Child Health Pavilion Planning Committee 2018  
 CHCO North Campus Expansion Planning Committee 2018  
 CHCO Sports Medicine Center Policy and Procedure Committee 2015-present  
 CU Sports Medicine Governance Committee 2016-present  
 Orthopedic Institute Strategy Committee, CHCO 2017-18  
 Nominating Committee, PRISM (Pediatric Research in Sports Medicine) 2016-17  
 NFHS (National Federation of State High Schools Associations) Nominee, Sports Medicine Advisory Committee 2014  
 CHCO Sports Medicine Center Policies and Procedures Committee 2014-present  
 AMSSM 2013 Annual Meeting Planning Committee and Concussion Symposium Moderator 2012-13  
 CHSAA (Colorado High School Activities Association) Sports Medicine Advisory Committee 2012-present  
 CHSAA Baseball Ad Hoc Committee 2014-2016  
 Children's Hospital Colorado North Coaches Clinic Conference Committee Chair 2012, 2013, 2014, 2015  
 TCH Coaches Clinic Conference Committee 2011  
 TCH Coaches Clinic Conference Committee Chair 2010  
 MSI Operations Committee 2010-present  
 Continuous Process Improvement Committee 2008-present  
 Operational/Process Improvement Committee 2009-2011  
 Interdepartmental Relations Committee 2009-2010  
 Maccabi Games Medical Committee 2009-2010  
 TCH Sports Medicine Symposium Committee 2008, 2009, 2010, 2011

**Licensure and Certification**

Board Certified - Sports Medicine  
 Board Certified - General Pediatrics  
 CO Medical License  
 PALS certified

**Presentations/Moderator/Teaching**

**Local**

**Pediatric Overuse and Traumatic Injuries-** University of Colorado Sports Medicine Fellowship Didactics 2020  
**Sleep in Young Athletes-** FC St. Vrain Soccer Club 2020  
**Reactivation of Sports and PPEs during COVID-19-** Children's Hospital Colorado PCP Town Hall 2020

**Pediatric Musculoskeletal and Head Injuries in Snow Sports-** Winter Park Ski Patrol 2020

**EMS Training - Five Star Stadium-** Adams 12 Five Star Schools 2019

**EMS Training - North Stadium-** Adams 12 Five Star Schools 2019

**Concussion Training and Certification-** Adams 12 Five Star Schools 2019

**Initial Management of C-spine Injuries-** CHCO Advanced Care of the Young Athlete Symposium 2019

**Growth Plate Injuries and Pediatric Pitfalls-** CU Sports Medicine and Performance Center PT In-service Training 2019

**Concussion Training-** Adams 12 Five Star Schools 2019

**Sports Trauma Session Moderator-** Advanced Care of the Young Athlete Symposium 2019

**Initial Management of C-spine Injuries Workshop-** Advanced Care of the Young Athlete Symposium 2019

**Overuse and Traumatic Growth Plate Injuries and Pediatric Pitfalls-** In-service to PTs at CUSMPC 2019

**Prevention of Injuries in Youth Climbing-** Boulder/Denver Rock Climbing Coaches 2019

**Managing Sports Specialization in Youth Sports-** CU Orthopedic Residency Core Curriculum 2019

**Sports Medicine Center Vision-** given to OI Leadership 2018

**Concussion in the Young Athlete-** Orthopedic Residency Core Curriculum 2018

**Shoulder and Elbow Physical Examination Workshop-** CHCO 5<sup>th</sup> Annual Advanced Care for the Young Athlete Symposium 2018

**Shoulder Anatomy, Physical Examination and Sports Specialization-** CHCO 5<sup>th</sup> Annual Advanced Care for the Young Athlete Symposium 2018

**New Updates and Research on Concussion in the Young Athlete-** CME at UC Health Longmont Clinic 2018

**Pediatric Injuries-** On The Field Management Symposium, DU 2018

**Concussion Training-** Adams 12 Coaches Clinic 2018

**Head, Heat and Heart-** Denver Broncos Coaches Safety Clinic 2018

**Finger Injuries in Elite Youth Rock Climbers-** CHCO Annual Ortho Day Conference 2018

**CHCO Sports Medicine Program Report-** OI Business Meeting 2018

**CHCO 4th Annual Advanced Care for the Young Athlete Symposium- Moderator 2017**  
**New Updates and Research on Concussion in the Young Athlete- CME at Boulder Community Health 2017**  
**Sandlot Baseball Training Facility- Concussion Training 2017**  
**AMSSM Fellows Research Conference- Hands-on MSK Ultrasound Examination of Knee, Shoulder and Ankle 2017**  
**AMSSM Fellows Research Conference- Face, Eye, Dental, Skin 2017**  
**Concussion Training and Updates on Recent Literature- CHSCA Multisport Coaches Clinic 2017**  
**Head, Heat and Heart- Denver Broncos Coaches Safety Clinic 2017**  
**Role of the Pediatric Sports Medicine Physician- Henry World Legacy School 2017**  
**Orthopedics and Sports Medicine- Mountain View Preschool 2017**  
**Sports Specialization and Overuse Injuries- University of Denver Masters Students, Professional School of Psychology 2017**  
**Physical Examination MSK Course- University of Colorado Medical Students 2016**  
**CHCO 3rd Annual Advanced Care for the Young Athlete Symposium- Moderator 2016**  
**Case Studies in Injuries of the Foot and Ankle Workshop- 3rd Annual Advanced Care for the Young Athlete Symposium 2016**  
**Heat and Hydration- Broncos Mom's Safety Clinic 2016**  
**Injury Prevention- Broncos Mom's Safety Clinic 2016**  
**Heat Illness Prevention in Young Athletes- CHSAA All Schools Summit 2016**  
**Overuse and Traumatic Lower Extremity Injuries- CME at Horse and Dragon Brewery 2016**  
**Overuse and Traumatic Lower Extremity Injuries- CME at The Pediatric Center 2016**  
**Overuse Elbow Injuries in the Young Athlete- CU Sports Medicine Symposium 2016**  
**Concussion Evaluation and Management- Denver Broncos Coaches Safety Clinic 2016**  
**Concussion Management- CME at Arvada Pediatric Associates North 2016**  
**CHCO 2nd Annual Advanced Care for the Young Athlete Symposium- Moderator 2015**

**Common Skin Conditions in Wrestling-** DCSD Athletic Trainers 2015

**Fuel for Optimal Performance and Recovery-** Denver Broncos Health and Wellness Expo 2015

**Heat Illness: Preparation, Recognition, and Management-** CHCO AT Education Series 2015

**Concussion Management-** On The Field Management Symposium, DU 2015

**Concussion Training-** Children's Hospital Colorado North Mini Coaches Clinic 2015

**Overuse Injuries and Sports Specialization-** AF Williams Family Medicine Residents 2015

**Overuse and Traumatic Injuries of the Upper and Lower Extremities-** CME at Pediatrics West 2015

**Concussions: Epidemiology and Current Guidelines-** CME at Boulder Community Health 2014

**Managing Overuse Injuries and Sports Specialization-** 1<sup>st</sup> Annual Advanced Care for the Young Athlete Symposium 2014

**Facial and Dental Injuries-** On The Field Management Symposium, DU 2014

**Moderator-** Children's Hospital Colorado North Coaches Clinic 2014

**Common Sports Medicine Overuse and Traumatic Injuries in Pediatrics-** 1st year medical students at the University of Colorado 2014

**Sports Specialization and Overuse Injuries-** Orthopedic Residents University of Colorado 2014

**Return to Play after Concussion: Consensus Statement on Concussion in Sport-** Colorado Pediatric Trauma Conference 2013

**Hand and Wrist Injuries in Young Athletes-** Pediatric Orthopedics for the Primary Care Provider Conference 2013

**SafeKids Sports Safety Presentation-** Boys and Girls Club of Metro Denver 2013

**Concussions in Student Athletes-** Horizon High School Teaching Staff 2013

**Common Sports Medicine Overuse and Traumatic Injuries in Pediatrics-** 1st year medical students at the University of Colorado 2013

**Sports CPI Pilot Team-** Children's Hospital Colorado Quality Improvement Meeting 2012

**Young Athletes: How to help your child play their best and Concussion Training-** Adams 12 Parents/Coaches 2012

**Sports CPI Pilot Team-** OI Provider Business Meeting 2012

**Facial and Dental Injuries-** On The Field Management Symposium, DU 2012

**Sports Specialization and Overuse Injuries-** Children's Hospital Colorado Pediatric Residents 2012

**Sports CPI Pilot Team-** Children's Hospital Colorado Physician Relations Advisory Committee 2012

**Sports CPI Pilot Control Phase Tollgate-** Children's Hospital Colorado OI team 2012

**Common Sports Medicine Overuse and Traumatic Injuries in Pediatrics-** 1st year medical students at the University of Colorado 2012

**Concussion Management for Coaches-** Children's Hospital North Coaches Clinic 2012

**Youth Sports Concussion and Winter Sports Safety-** Apex Recreational Facility, Arvada, CO 2012

**Evaluation and Management of Concussion-** CU Sports Medicine Weekly Sports Conference 2011

**School Accommodations after Concussion-** Adams 12 Nurses 2011

**Upper and Lower Extremity Sports Medicine Injuries-** CME at Coal Creek Family Medicine 2011

**Legislative Town Hall Concussion Educational Talk-** Brighton, CO 2011

**Sideline Management of Youth Concussions-** Children's Hospital Colorado Sports Medicine Coaches Clinic 2011

**Football Injuries Workshop-** Children's Hospital Colorado Sports Medicine Coaches Clinic 2011

**Concussion in the Youth-** PAs and NPs at Children's Hospital Colorado 2011

**Common Ankle and Knee Sprains/Strains-** Grand Rounds Denver Health 2011

**Concussions in the Young Athlete and Senate Bill 40-** Update on Concussion Management Conference 2011

**Anterior Knee Pain in Adolescents-Pilot Study-** Ortho Day 2011

**Common Sports Medicine Overuse and Traumatic Injuries in Pediatrics-** 1st year medical students at the University of Colorado 2011

**Orthopedic Exam of the Pediatric Patient-** The Children's Hospital Pediatric Residents 2011

**Medical Management of Youth Concussion-** CME at Premier Pediatrics 2010

**Medical Management of Youth Concussion-** CME at Centennial Valley Pediatrics 2010

**Sideline and Medical Management of Concussion-** TCH Annual Trauma Conference 2010

**Sprains and Strains-** Pediatric Orthopaedics for the Primary Care Provider Conference 2010

**Knee Exam Workshop-** Pediatric Orthopaedics for the Primary Care Provider Conference 2010

**Sideline Management of Youth Concussion-** Jefferson County Certified Athletic Trainers 2010

**Little League Shoulder-** The Children's Hospital Sports Medicine Symposium 2010

**Sideline and Medical Management of Concussion-** Sports Medicine Coaches Clinic 2010

**Overuse Injuries in Young Athletes-** The Children's Hospital Pediatric Residents 2010

**Sports Injuries in Children and Adolescents-** TCH Community and School Health Pediatric Conference 2010

**Back Pain Educational PowerPoint-** Educational tool for sports medicine patients seen in clinics 2009

**Pediatric Lower Extremity Injuries-** CME given at Lutheran Medical Center Hospital 2009

**Apophysitis-** The Children's Hospital Sports Medicine Symposium 2009

**Lower Extremity Clinical Case Workshop-** The Children's Hospital Sports Medicine Symposium 2009

**Sideline Management of Concussion-** On the Field Management of the Injured Athlete Symposium 2009

**Common Pediatric Extremity Injuries-** University of Colorado Family Medicine Residents 2009

**Concussion Educational PowerPoint-** Educational tool for sports medicine patients seen in clinics 2009

**Healthy Ways to Building Lean Body Mass-** Cherry Creek High School Athletes 2009

**Foundations of Doctoring Course-** Mentor for MS 1 student 2008-present

**Management of Concussion in Young Athletes-** Pediatric Orthopaedics for the Primary Care Provider Conference 2008

**Concussions in the Young Athlete-** The Children's Hospital Sports Medicine Symposium 2008

**Pediatric Injuries-** University of Colorado Family Medicine Residents 2008

**Pediatric Knee Exam Workshop Instructor-** Office-Based Sports Medicine for the Primary Care Provider Symposium 2008, 2010

**Concussions in the Young Athlete-** CME given at Lutheran Medical Center Hospital 2008



**Concussions in the Young Athlete-** Littleton Adventist Hospital CME 2008  
**When to MRI a Knee-** Pediatric Orthopaedics for the Primary Care Provider Conference 2008  
**Sports Concussion in the Young Athlete-** On the Field Management of the Injured Athlete Symposium 2008  
**Shoulder Exam Workshop Instructor-** Office-Based Sports Medicine for the Primary Care Provider Symposium 2008  
**Concussion in Sports-** Athletic Training high school students in Cherry Creek County, CO 2007, 2008  
**Concussion in Young Athletes-** School Aids and Nurses in Douglas County, CO 2007  
**Pediatric Overuse Injuries-** University of Colorado Family Medicine and Rehab Medicine Residents 2007  
**Brown Bag Sports Medicine Lectures-** Family Medicine Residents at Rose Family Medicine Center 2006-2007  
**Acute Concussion Management-** Urgent Care Physicians in the Denver Metro Area 2006  
**Casting and Splinting Workshop Instructor-** University of Colorado Medical Students 2006

## **Regional**

**Cyclocross Injuries and Current Literature-** Children's Mercy Youth Athlete Conference 2019  
**Injuries in Youth Rock Climbers-** Children's Mercy Youth Athlete Conference 2019  
**Pediatric and Adolescent Skiing Injuries and Mortality Rates-** Children's Mercy Youth Athlete Conference 2019  
**Upper Extremity Injury in the Young Athlete-** Cheyenne Regional Medical Center 2017  
**Concussion in the Young/Adolescent Athlete-** Aspen Junior Hockey Association 2015  
**Concussion in the Young/Adolescent Athlete-** Aspen Parks and Recreation 2015  
**Dazed and Confused – Youth Concussions-** Air Force Academy Summer Camps 2013  
**Energy Drinks and Supplements Fueling our Colorado Athletes: More Harm than Good-** Colorado Athletic Directors Conference 2013  
**Sport-Related Concussions in Young Athletes-** School District, Cheyenne, WY 2013  
**Coaches Concussion Training-** Platte Valley High School 2012  
**Concussion Management and SB40-** CME at Salud Health Care Center, Longmont, CO 2012

**Headaches over Concussions: Implementing the Jake Snakenberg Act-** Colorado Athletic Directors Association Annual Conference 2012

**SB 40 Colorado Concussion Bill-** Annual Colorado AAP Conference 2012

**Concussion Management for the PCP-** CME at Cheyenne Regional Medical Center 2012

**Concussion in Young Athletes-** Wyoming Medical Society Annual Conference 2011

**Knee and Ankle Sprains and Strains/Physical Examination Workshop-** Colorado AAP Annual Chapter Conference 2011

**Pediatric Lower Extremity Injuries-** CME given at Longmont United Hospital 2010

**Pediatric Lower Extremity Injuries-** CME given to community pediatricians in Greeley, CO 2009

**Pediatric Ski/Snowboard Injuries-** Eldora Ski Patrol Continuing Education Monthly Meeting 2008

## **National**

**Athlete Burnout is Associated with Perceived Likelihood of Future Injury Among Healthy Adolescent Athletes-** POSNA Annual Meeting, May 2020 & AMSSM Annual Meeting, April 2020

**Finger Stress Fractures in Elite Youth Rock Climbers-** PRISM Annual Meeting 2019

**Isometric Cervical Muscular Strength in Pediatric Athletes with Multiple Concussions-** AMSSM Annual Meeting 2016

**Laws, Rules and Their Effects on Concussions-** Pediatric Research in Sports Medicine Annual Meeting 2015

**Identifying and Treating Concussions-** The Advanced Practice Nurses of the Upper Ohio Valley Annual Meeting, Wheeling, WV 2013

**Special Symposium on Sport-Related Concussion Moderator-** AMSSM Annual Meeting 2013

**Head Injury in Soccer Player-** ACSM annual meeting 2007

## **International**

**Head Injury and Wilderness Medicine Session Moderator-** International Extreme Sports Medicine Congress 2018

**Adolescent Adventure and Extreme Sports Session Moderator-** International Extreme Sports Medicine Congress 2018

**Concussion in Extreme and Adventure Sports-**  
International Extreme Sports Medicine Congress 2018  
**Fatalities in Skiing-** International Extreme Sports  
Medicine Congress 2018  
**Pediatric and Adolescent Injuries in Skiing-**  
International Extreme Sports Medicine Congress 2018  
**Cyclocross – An Hour in the Pain Cave-** International  
Extreme Sports Medicine Congress 2018  
**Concussion in Adventure Athletes - Epidemiology and  
Current Guidelines-** International Extreme Sports  
Medicine Congress 2016  
**Fatalities in Skiing and Snowboarding - From  
Avalanche to Objects Collision-** International Extreme  
Sports Medicine Congress 2016  
**The Adolescent Athlete Moderator-** International  
Extreme Sports Medicine Congress 2016  
**How to Prepare for Backcountry Skiing Workshop-**  
International Extreme Sports Medicine Congress 2014  
**Concussion – Epidemiology and Current Guidelines-**  
International Extreme Sports Medicine Congress 2014  
**Head Injury and Wilderness Medicine Moderator-**  
International Extreme Sports Medicine Congress 2014

## Current Research

**Telemark Ski Injuries in Adolescents** – study  
development

## Publications

### Peer Reviewed Abstracts

#### Local

Morgan N. Potter, David R. Howell, Katherine S. Dahab,  
Emily A. Sweeney, Jay C. Albright, and **Aaron J.  
Provance**. The Association Between Sleep Quality On  
Quality Of Life Among Healthy High School Athletes.  
University of Colorado’s Inaugural Orthopedic Research  
Symposium, May 2019, Poster Presentation

Meyers, R, Hobbs, S, Potter, M, **Provance, A**. Perceptions  
Regarding Injury & Training in Elite Adolescent Rock  
Climbers. Children’s Hospital Colorado Winter Poster  
Session, Feb 2018.

Wilson J, **Provance A**, Murray J, Kirkwood M, Grubenhoff  
J, Johnson B, Golembeski J, Prokop J, Clarke M, May L,

Kanallakan A, Wilson P, Gordon S. Concussion Clinical Care Guideline. Children's Hospital Colorado 2016.

Glenn Engelman, Julie Wilson, Ada Sochanska, **Aaron Provance**. Isometric Cervical Muscular Strength in Pediatric Athletes with Multiple Concussions. Children's Hospital Colorado Spring Poster Session, May 2015, Poster Presentation

Danielle Magrini, Morteza Khodaei, Inigo San Millan, Tamara Hew-Butler, Ada Sochanska, **Aaron Provance**. Creatine Kinase Elevations in Ultra-Endurance Runners at Altitude. Children's Hospital Colorado Spring Poster Session, May 2015, Poster Presentation

Kirkwood M, Grubenhoff J, **Provance A**, Wilson P. Concussion Clinical Care Guideline. Children's Hospital Colorado 2011.

### **Regional**

Attwood G, et al. Youth Sports Concussions: Recommendations for Enhancing Athlete Safety. The Brain Injury Association of Colorado 2010; Sept 7.

### **National/International**

Corrine Seehusen, David Howell, Morgan Potter, Greg Walker, **Aaron Provance**. Athlete Burnout is Associated with Perceived Likelihood of Future Injury Among Healthy Adolescent Athletes. POSNA Annual Meeting, May 2020, Podium Presentation (virtual meeting format due to COVID-19 Pandemic)

Meyers R, Howell DR, **Provance AJ**. Finger Growth Plate Injuries in Elite, Adolescent Rock Climbers. APTA Combined Sections Meeting, Feb 2020, Podium Presentation

Corrine Seehusen, David Howell, Morgan Potter, Greg Walker, **Aaron Provance**. Athlete Burnout Is Associated With Perceived Likelihood of Future Injury Among Healthy Adolescent Athletes. American Medical Society for Sports Medicine Annual Meeting, April 2020, Podium Presentation (virtual meeting format due to COVID-19 pandemic)

Wilson JC, Brenner LA, Khodae M, **Provance AJ**, Spittler J, Howell DR. History of Concussion Does Not Influence Sleep Quality In Adolescent Athletes. American Medical Society for Sports Medicine Annual Meeting, April 2020, Poster Presentation (virtual meeting format due to COVID-19 pandemic)

Altenburger A, Schein L, Reinking S, **Provance A**, Walker G, Howell D. Effects of Sports Specialization on Performance of Functional Tasks in Adolescent Athletes. APTA Combined Sections Meeting, Feb 2020, Poster Presentation

Gray M, Wilson JC, Potter MN, **Provance AJ**, Howell DR. Females Exhibit Greater Oculomotor and Vestibular Dysfunction than Males Following Pediatric Concussion. APTA Combined Sections Meeting, Feb 2020, Poster Presentation

Wilson J, Wilson P, Kirkwood M, **Provance A**, Walker G, Howell D. Adolescents Report Sleep Quality Impairments Post-Concussion. Pediatric Research in Sports Medicine Annual Meeting, Jan 2020, Poster Presentation

Gregory Walker, Aubrey Armento, Katherine Dahab, **Aaron Provance**, Julie Wilson, David Howell. Family Affluence Relationship to Sports Specialization in Youth Athletes. Pediatric Research in Sports Medicine Annual Meeting, Jan 2020, Poster Presentation

May O, Armento A, Seehusen C, Dahab K, **Provance A**, Howell D. Psychosocial Characteristics of High-School Endurance Athletes Compared to Team Sport Athletes. National Athletic Trainer's Association Annual Meeting, April 2020, Poster Presentation (virtual meeting format due to COVID-19 pandemic)

Morgan N. Potter, David R. Howell, Katherine S. Dahab, Emily A. Sweeney, Jay C. Albright, and **Aaron J. Provance.** The Association Between Sleep Quality On Quality Of Life Among Healthy High School Athletes. American College of Sports Medicine Annual Meeting, May 2019, Poster Presentation

Tatiana Patsimas, David R. Howell, Morgan N. Potter, **Aaron J. Provance**, Michael W. Kirkwood, Julie C. Wilson. Patient-Parent Agreement on the Health and Behavior Inventory after Pediatric Concussion. American College of Sports Medicine Annual Meeting, May 2019, Poster Presentation

David R. Howell, Morgan N. Potter, **Aaron J. Provance**, Pamela E. Wilson, Michael W. Kirkwood, Julie C. Wilson. Sleep problems after concussion among youth athletes. American Medical Society for Sports Medicine Annual Meeting, April 2019, Poster Presentation

Emily A. Sweeney, David R. Howell, Morgan N. Potter, Alexia G. Gagliardi, Jay C. Albright, **Aaron J. Provance**. Patient Outcomes Following Pediatric Fracture. American Medical Society for Sports Medicine Annual Meeting, April 2019, Poster Presentation

Armento, A and **Provance, A**. Unilateral Ptosis in a Football Player. American Medical Society for Sports Medicine Annual Meeting, April 2019, Poster Presentation

Wilson, J., Potter, M., Kirkwood, M., Wilson, P., **Provance, A.**, Howell, D. The Association Between Early Exercise and Clinical Characteristics Following Pediatric Sport-Related Concussion. Pediatric Research in Sports Medicine Annual Meeting, Jan 2019, Poster Presentation

Sweeney, E., Howell, D., Potter, M., Gagliardi, A., Albright, J., **Provance, A**. Assessing Patient Outcomes Following A Fracture. Pediatric Research in Sports Medicine Annual Meeting, Jan 2019, Poster Presentation

Howell, D., Potter, M., **Provance, A.**, Wilson, J. Clinical Predictors of Symptom Resolution for Children and Adolescents with Sport-Related Concussion. Pediatric Research in Sports Medicine Annual Meeting, Jan 2019, Podium Presentation

**Provance, A.**, Meyers, R., Hobbs, S., Howell, D. Finger Stress Fractures in Elite Youth Rock Climbers. Pediatric Research in Sports Medicine Annual Meeting, Jan 2019, Podium Presentation

Meyers, R., Hobbs, S., Potter, M., **Provance, A**. Perceptions Regarding Injury & Training in Elite,

Adolescent Rock Climbers. ACSM Annual Meeting, May 2018, Poster Presentation

M. Brewer, B. Younger, A. Sochanska, A.K. Lepon, **A. Provance**. Athletic Training in Secondary Schools: Current US Model. Rocky Mountain Athletic Trainers Association Annual Meeting, April 2016, Podium Presentation

Glenn Engelman, Julie Wilson, Ada Sochanska, **Aaron Provance**. Isometric Cervical Muscular Strength in Pediatric Athletes with Multiple Concussions. AMSSM Annual Meeting, April 2016, Podium Presentation

Julie Wilson, Ada Sochanska, Melissa Randall, Mathew Brewer, Katelyn Brooks, Gregg Brueck, Megan Ramsey, Ariel Kiyomi Lepon, **Aaron Provance**. Cervical Strengthening in Adolescent Athletes: A Pilot Study. ACSM Annual Meeting, June 2016, Poster Presentation

Danielle Magrini, Morteza Khodae, Inigo San Millan, Tamara Hew-Butler, Ada Sochanska, **Aaron Provance**. Creatine Kinase Elevations in Ultra-Endurance Runners at Altitude. ACSM Annual Meeting, May 2015, Poster Presentation

Mark F. Riederer, **Aaron Provance** and Eduardo Novais. Right Hip Pain - A Case of Extra-articular Impingement. AMSSM Annual Meeting, April 2014, Poster Presentation

Mark F. Riederer, **Aaron Provance** and Jason Rhodes. Knee Swelling in a Football Player - Acute Injury or Inflammatory Process? AMSSM Annual Meeting, April 2014, Poster Presentation

**Aaron Provance** and David Soma. Acute on Chronic Knee Injury in Young Football Player. AMSSM Annual Meeting, April 2013, Poster Presentation

**Aaron Provance** and Mohammed Mortazavi. Thirteen-Year-Old Quarterback with Hip Pain and Inability to Walk After Being Sacked. AMSSM Annual Meeting, April 2012, Poster Presentation

Mark Erickson, **Aaron Provance**, Rachel Coel, Quynh Hoang, Brian Perry, Michael Kimbel, Norine Hemphill, Michael Keller and Kathryn Johansen. Why am I Waiting?

Improving Outpatient Clinic Efficiency. Children's Hospital Association Annual Leadership Conference, October 2012, "Best In Show", Poster Presentation

Shayne Fehr and **Aaron Provance**. Buck Buck: Acute Knee Pain and Swelling in an Adolescent Male. AMSSM Annual Meeting, April 2011, Poster Presentation

### **Non-Peer Reviewed Articles**

Rachel N. Meyers, **Aaron J. Provance**, Are Adolescent Climbers Aware of the Most Common Youth Climbing Injury and Safe Training Practices: A Summary, The Climbing Doctor 2020

Rachel N. Meyers, **Aaron J. Provance**, Rock Climbing Tip Sheet, AOSSM's StopSportsInjuries.org 2020

Dennis J. Caine & **Aaron J. Provance**, Epidemiology of Youth Injury in Adventure and Extreme Sports, Editorial - Pediatric and adolescent injury in adventure and extreme sports. *Research in Sports Medicine: An International Journal*. 2018 Apr 25.

**Provance A**. Youth Sports Injuries on the Rise, Interview for ConsumerReports.org-Babies & Kids Blog 2010

**Provance A**. Muscle Strains in Children, Shine Article for The Children's Hospital 2009

### **Book Chapters**

**A Provance**, The 5-Minute Sports Medicine Consult, Fracture, Patella. April 2019

J Grubenhoff, **A Provance**, Mild Traumatic Brain Injury in Children and Adolescents, Epidemiology and the Importance of the Physical and Neurological Exam. February 2012

**A Provance**, The 5-Minute Sports Medicine Consult, Fracture, Patella. January 2011

### **Educational Videos**

CHSAA Educational Videos, Head, Heart, Heat and Emergency Action Plans, CHSAA SMAC Committee, March 2018



CHSAA Educational Series, Preventing Arm Overuse Injuries in Youth and High School Baseball, Leading Physician in Video, CHSAA Baseball Ad Hoc Committee, January 2016

### **Published Peer Reviewed Abstracts**

Wilson J, Sochanska A, Randall M, Brewer M, Brooks K, Brueck G, Ramsey M, Lepon AK, **Provance A**. Cervical Strengthening in Adolescent Athletes: A Pilot Study. *Medicine & Science in Sports & Exercise* 2016; May;48(5S):925.

Glenn Engelman, Julie Wilson, Ada Sochanska, **Aaron Provance**. Isometric Cervical Muscular Strength in Pediatric Athletes with Multiple Concussions. *Clinical Journal of Sports Medicine* 2016; March;26(2):e58.

Gustafson, K, **Provance, A**. Knee Injury - Football. *Medicine and Science in Sports and Exercise* 2013;45(5, S265): Supplement 527.

David Soma, Elizabeth Terhune, **Aaron Provance**, Katherine Dahab, Quynh Hoang, Patrick Carry, and Rachel A. Coel. Relationship Between Body Dimensions and Pediatric Patients with Concussions. *Clinical Journal of Sport Medicine* 2013;23(2): Supplement 146.

Matthew Leiszler, **Aaron Provance**. Not a Simple Nusremaid's Elbow. *Medicine and Science in Sports and Exercise* 2012;44(5): Supplement 60.

**Aaron Provance**, Patrick Carry, Susan Kanai, Kate Worster, John Polousky, and David James. Results of a Hip Strengthening Intervention Among Adolescent Females With Idiopathic Patellofemoral Pain. *Clinical Journal of Sport Medicine* 2012;22(2): Supplement 196.

Quynh Hoang, Glenn Engelman, Bryan McNair, Rachel Coel, and **Aaron Provance**. Analysis of Patient Flow and the Utilization of Certified Athletic Trainers in an Outpatient Sports Medicine Clinic. *Clinical Journal of Sport Medicine* 2012;22(2): Supplement 195-6.

Mohammed Mortazavi, Glenn Engelman, Patrick Carry,

Anthony McCanta, Christopher Rausch, and **Aaron Provance**. Prevalence and Predictors of Athlete's Heart Among Adolescent Athletes. *Clinical Journal of Sport Medicine* 2012;22(2): Supplement 172-3.

Shayne D. Fehr, **Aaron J. Provance**. "Pop" Warner Football. *Medicine and Science in Sports and Exercise* 2011;43(5): Supplement 146.

**Provance A**, Coel R, Younger B. A Model of Care for Young Athletes in the Secondary School Setting. *Clinical Journal of Sports Medicine* 2011;21(2): Supplement.

R. Coel, **A. Provance**, and B. Younger. Clinical Care of Young Athletes in the Secondary School Setting: A Novel Model. *Medicine & Science in Sports & Exercise* 2011;43(5): Supplement 375.

**Provance A**, Pengel K. Head Injury-Soccer. *Medicine & Science in Sports & Exercise* 2007;39(5):Supplement 109-110.

**Provance A**, Khan A. Euryblepharon. *Consultant For Pediatrics* 2005;45:1218.

Khan A, **Provance A**. Asymmetric Crying Facies Syndrome. *Consultant For Pediatrics* 2005;4:288-289.

### Peer Reviewed Manuscripts

Gray M, Wilson JC, Potter M, **Provance AJ**, Howell DR. Female adolescents demonstrate greater oculomotor and vestibular dysfunction than male adolescents following concussion. *Phys Ther Sport*. 2020;42:68-74.

**Provance AJ**, Brewer MK, Seehusen CN, Younger BT, Howell DR. Athletic trainer employment, physician access and care delivery in secondary schools. *Phys Sportsmed*. 2020;1-5.

Meyers RN, Hobbs SL, Howell DR, **Provance AJ**. Are Adolescent Climbers Aware of the Most Common Youth Climbing Injury and Safe Training Practices? *Int J Environ Res Public Health*. 2020

**Provance AJ**, Howell DR, Potter MN, Wilson PE, D'Lauro AM, Wilson JC. Presence of Neck or Shoulder Pain

Following Sport-Related Concussion Negatively Influences Recovery. *J Child Neurol*. 2020

Sweeney EA, Howell DR, Potter MN, Gagliardi AG, Albright JC, **Provance AJ**. Comparison of pediatric sports fracture outcomes based on provider type. *Phys Sportsmed*. 2020

Patsimas T, Howell DR, Potter MN, **Provance AJ**, Kirkwood MW, Wilson JC. Concussion-Symptom Rating Correlation Between Pediatric Patients and Their Parents. *J Athl Train*. 2020

Potter MN, Howell DR, Dahab KS, Sweeney EA, Albright JC, **Provance AJ**. Sleep Quality and Quality of Life Among Healthy High School Athletes. *Clin Pediatr (Phila)*. 2019

Dahab K, Potter MN, **Provance A**, Albright J, Howell DR. Sport Specialization, Club Sport Participation, Quality of Life, and Injury History Among High School Athletes. *J Athl Train*. 2019 Oct;54(10):1061-1066.

Howell DR, Potter MN, Kirkwood MW, Wilson PE, **Provance AJ**, Wilson JC. Clinical predictors of symptom resolution for children and adolescents with sport-related concussion. *Journal of Neurosurgery: Pediatrics*. 2019 Apr 16:1-8.

Wilson JC, Levek C, Daoud AK, Brewer M, Brooks K, Sochanska A, Randall M, **Provance AJ**. Web-Based Exercise Program Increases Cervical Strength in Adolescent Athletes. *Journal of Strength and Conditioning Research*. 2018 Oct 17.

Engelman G, Carry P, Sochanska A, Daoud AK, Wilson J, **Provance A**. Isometric Cervical Muscular Strength in Pediatric Athletes With Multiple Concussions. *Clinical Journal of Sport Medicine*. 2018 Oct 19.

Sweeney EA, Howell DR, James DA, Potter MN, **Provance AJ**. Returning to Sport After Gymnastics Injuries. *Current Sports Medicine Reports*. 2018 Nov;17(11):376-390.

**Aaron J. Provance**, Ariel K. Daoud, Alex Tagawa & Jason Rhodes, Epidemiology of Youth Injury in Adventure and Extreme Sports, Pediatric and adolescent injury in skiing. *Research in Sports Medicine: An International Journal*. 2018 Apr 25.

Dennis J. Caine, Kasey Young & **Aaron J. Provance**, Epidemiology of Youth Injury in Adventure and Extreme Sports, Pediatric and adolescent injury in mountain biking. *Research in Sports Medicine: An International Journal*. 2018 Apr 25.

David R Howell, Michael W Kirkwood, **Aaron Provance**, Grant L Iverson, William P Meehan III. Using Concurrent Gait and Cognitive Assessments to Identify Impairments after Concussion: A Narrative Review. *Concussion*. 2018 Jan 19.

Novais EN, Riederer MF, **Provance AJ**. Anterior Inferior Iliac Spine Deformity as a Cause for Extra-articular Hip Impingement in Young Athletes After an Avulsion Fracture: A Case Report. *Sports Health*. 2017 Dec 1.

Natalie Ronshaugen, **Aaron Provance**. Pott's Puffy Tumor. *AAP Council on Sports Medicine and Fitness – Case of the Month*. 2017 Oct 6.

Carry PM, Gala R, Worster K, Kanai S, Miller NH, James D, **Provance AJ**, Carollo JJ. Postural Stability and Kinetic Change in Subjects with Patellofemoral Pain After a Nin-Week Hip and Core Strengthening Intervention. *Int J Sports Phys Ther*. 2017 Jun;12(3):314-323.

Magrini D, Khodae M, San-Millan I, Hew-Butler T, **Provance AJ**. Serum Creatine Kinase Elevations in Ultramarathon Runners at High Altitude. *The Physician and Sportsmedicine* 2017; Jan:1-5.

Khodae M, Volkmer B, **Provance A**. Distal Clavicle Torus Fracture in a 15-Year-Old Snowboarder. *Journal of Pediatrics* 2016; Sept:30.

Engelman G, Koutures C, **Provance A**. The Current State of Pediatric Sports Medicine: A Workforce Analysis. *The Physician and Sportsmedicine* 2016; Feb;19:1-7.

**Provance AJ**, Engelman GH, Terhune EB, Coel RA.

Management of Sport-Related Concussion in the Pediatric and Adolescent Population. *Orthopedics* 2016; Jan;39(1):24-30.

**Provance AJ**, James D, Carry PM, Kanai S, Miller N, Worster K, Polousky JD, Carollo JJ. Functional, Kinematic, and Isokinetic Strength outcomes of a Hip Strengthening Program among Adolescent Females with Idiopathic Patellofemoral Pain: A Pilot Study. *Journal of Athletic Enhancement* 2014;3:6

**Aaron J. Provance**, E. Bailey Terhune, Christine Cooley, Patrick M. Carry, Amy K. Connery, Glenn H. Engelman, and Michael W. Kirkwood. The Relationship Between Initial Physical Examination Findings and Failure on Objective Validity Testing During Neuropsychological Evaluation After Pediatric Mild TBI. *Sports Health: A Multidisciplinary Approach* 2014; Aug;6:410.

David Soma, **Aaron Provance**. Bilateral Wrist Pain. *AAP Council on Sports Medicine and Fitness – Case of the Month.* 2013 July.

**Provance AJ**, Engelman GH, Carry PM. Implications of Parental Influence on Child/Adolescent Helmet Use in Snow Sports. *Clinical Journal of Sport Medicine* 2012; May;22(3):240-3.

**Provance AJ**, Polousky JD. Isolated avulsion fracture of the subscapularis tendon with medial dislocation and tear of biceps tendon in a skeletally immature athlete: a case report. *Current Opinion in Pediatrics* 2010; Feb 24.

**Provance AJ**, Cain JJ. Not Just a Bump on the Head. Kids Corner, *Colorado Academy of Family Physicians Quarterly Journal* 2010.

**Provance A**, Ferrari ND 3rd, Nield LS. Chronic cough. *Clinical Pediatrics* 2006;45(9):871-3.

R. Gary Kirk, Michael E. Gates, **Aaron J. Provance**, and Ping Lee. Quantitative X-ray Images Calculated on the Basis of Mass and Volume. *Journal of Microscopy and Microanalysis* 1997;3:512-519.

**Editorial Duties**

Guest Co-Editor for Special Theme Issue: Epidemiology of Youth Injury in Adventure and Extreme Sports. *Research in Sports Medicine: An International Journal*. April 2018

**Legislation****Senate Bill 40: Jake Snakenberg Youth Concussion Act**

Contributing Author

Signed on March 29, 2011

Effective on January 1, 2012

**Colorado Athletic Trainer Licensure**

Testimony given in support of ATs licensure 2019

**Grants**

Co-Author, **Impact of Cervical Strengthening Program on Concussion Incidence in Adolescent Athletes**, American Medical Society for Sports Medicine, \$5,000

Primary Investigator, **Isometric Cervical Muscular Strength in Pediatric Athletes with Multiple Concussions**, American Medical Society for Sports Medicine, \$2,500

Primary Investigator, **Anterior Knee Pain Study in Adolescents Evaluating Changes in Pain and Biomechanics After Hip Strengthening Program**, The Children's Hospital Institute, \$30,000

**Grant/Manuscript/Book Reviewer**

Injury prevention: freestylers' awareness of FIS Code of Conduct for Snow Parks, *International Journal of Environmental Research and Public Health* 2019

The NICA Injury Surveillance System: A Prospective, Controlled Injury Prevention Intervention for High School Mountain Bike Teams, External Grant Reviewer, University of Utah 2018

Pediatric and Adolescent Sports Medicine Injuries: Prevention and Treatment, Book Chapter, *Orthopedics* 2017

Injury Patterns and Usefulness of the Y Balance Test in Predicting Injury in Women's Collegiate Softball, *Sports Health* 2016

American Medical Society for Sports Medicine, Young Investigators Grant 2014

Family Medicine Residents' Perceived Level of Comfort in Treating Common Sports Injuries across Residency Programs in the United States, *Open Access Journal of Sports Medicine* 2014

**Conference Organization** Children's Hospital Colorado Advanced Care of the Young Athlete Symposium, Co-chair 2014, 2015, 2016, 2017, 2018, 2019  
International Extreme Sports Medicine Congress, Co-director 2014, 2016, 2018, 2020 (delayed until 2021)

**Leadership Coaching/Trainings**

Executive Leadership Coaching, Resnik Partners, July-Dec 2018  
Peer Support and Coaching Training, CHCO 2020

**Research Mentorships** Rachel Meyers, CU Honors Student, Integrative Physiology Department, Finger Stress Fractures in Elite Youth Rock Climbers 2016-present

**Community Activities** The Delores Project 2011, 2012  
Denver Nuggets Team Fit Program – Adams 12 Athletes 2011  
Colorado Avalanche Mini Mites Program 2011  
High School Football and Wrestling Coverage-Horizon High School 2008-present  
Weekly-Biweekly Training Room-Horizon High School 2008-present  
Sports Physicals for Local High Schools 2006-present  
Volunteer for National Sports Center for the Disabled, Winter Park, CO 2007-2008  
Underserved Medicine, Akhiok, Alaska 2005  
International Medicine, San Lucas, Guatemala 2002  
Refugee Medical Clinics for Hurricane Katrina Victims, Kingwood, WV 2001  
Sex Education, WV High Schools 2000-2001  
Tar Wars Anti-Smoking Campaign, WV Schools 1999-2001

**Sports Medicine Experience**

**High School Football Coverage**  
CHSAA State High School Wrestling Championships – 2018  
Team Physician Horizon High School 2008-present  
Team Physician Grandview High School 2006-2008

Team Physician Clay-Battelle High School 2005  
Stow High School, two games 2004  
Hoban High School, one game 2004

### **High School Wrestling Coverage**

Team Physician Horizon High School 2008-present  
Team Physician Grandview High School 2006-2008

### **College Football Coverage**

West Virginia University, one game 2005  
West Virginia University, one game 2004  
University of Akron, one game 2004

### **College Athletics**

DU Women's Basketball Game 2010  
DU Invitational Ski Tournament 2007  
DU Women's Lacrosse 2007  
DU Volleyball and Soccer 2006  
CU Volleyball 2006  
WVU Women's Gymnastics Meet 2005  
WVU Open Wrestling Tournament 2004

### **Professional Athletics**

Colorado Rockies and San Francisco Giants Game  
with Dr. Poddar 2007

### **Mass Participant Events**

Bear Chase Ultra-marathon 2011, 2015, 2016, 2017, 2018  
Leadville 50 Mountain Bike Race 2012  
REAL Cup 2011, 2012, 2013, 2014, 2015, 2016, 2017,  
2018, 2019  
3d Lacrosse Annual Tournament 2013, 2014, 2015, 2016,  
2017, 2018, 2019  
Ed McCaffrey Football Camp 2007  
Leadville 100 Mountain Bike Race 2006, 2007

### **Clinic Educational Experience**

CU and DU Training Room Coverage 2006-2007  
High School Training Room Coverage 2006-2007  
One month at WVU Hospitals 2005  
One month at WVU Hospitals 2004  
One month at Akron Children's Hospital 2004

### **Conference Attendance**

AMSSM Annual Meeting 2020 (virtual)  
POSNA Annual Meeting 2020 (virtual)



Vail Injury Prevention Conference 2020 (virtual)  
6th Annual Advanced Care for the Young Athlete  
Symposium 2019  
Society of Pediatric Radiology MSK Imaging Course 2019  
International Congress on Snow Sports Trauma and Safety  
2019  
CU Sports Medicine Symposium 2019  
University of Colorado's Inaugural Orthopedic Research  
Symposium 2019  
ACSM Annual Meeting 2019  
Ortho Day, Children's Hospital Colorado, 2019  
Pediatric Research in Sports Medicine 2019  
5th Annual Advanced Care for the Young Athlete  
Symposium 2018  
On The Field Management Symposium 2018  
CU Sports Medicine Symposium 2018  
International Extreme Sports Medicine Congress 2018  
ACSM Annual Meeting 2018  
AMSSM Annual Meeting 2018  
Ortho Day, Children's Hospital Colorado 2018  
4th Annual Advanced Care of the Young Athlete  
Symposium 2017  
CU Sports Medicine Symposium 2017  
EPOSNA 2017  
Ortho Day, Children's Hospital Colorado 2017  
Pediatric Research in Sports Medicine 2017  
3rd Annual Advanced Care of the Young Athlete  
Symposium 2016  
AAP Council on Sports Medicine and Fitness 2016  
CU Sports Medicine Symposium 2016  
Ortho Day, Children's Hospital Colorado 2016  
International Extreme Sports Medicine Congress 2016  
AMSSM Annual Meeting 2016  
Pediatric Research in Sports Medicine 2016  
Inaugural Clinical Research Symposium 2015  
AMSSM Annual Meeting 2015  
2nd Annual Advanced Care of the Young Athlete  
Symposium 2015  
Ortho Day, Children's Hospital Colorado 2015  
CU Sports Medicine Symposium 2015  
On the Field Management of the Injured Athlete  
Symposium 2015  
Children's Hospital Colorado Sports Medicine Mini  
Coaches Clinic 2015  
Pediatric Research in Sports Medicine 2015

1<sup>st</sup> Annual Advanced Care of the Young Athlete  
Symposium 2014  
CU Sports Medicine Symposium 2014  
International Extreme Sports Medicine Congress 2014  
On the Field Management of the Injured Athlete  
Symposium 2014  
Children's Hospital Colorado Sports Medicine Coaches  
Clinic 2014  
Ortho Day, Children's Hospital Colorado 2014  
Pediatric Orthopedics for the Primary Care Provider 2013  
Colorado Pediatric Trauma Conference 2013  
CU Sports Medicine Fall Symposium 2013  
AMSSM Annual Meeting 2013  
The Advanced Practice Nurses of the Upper Ohio Valley  
Annual Meeting 2013  
On the Field Management of the Injured Athlete  
Symposium 2012  
Ortho Day, Children's Hospital Colorado 2012  
Colorado AAP Annual Meeting 2012  
AMSSM Annual Meeting 2012  
ACSM Annual Meeting 2012  
CU Sports Medicine Symposium 2012  
Children's Hospital Colorado Sports Medicine Coaches  
Clinic 2012  
Children's Hospital Colorado Sports Medicine Coaches  
Clinic 2011  
CU Sports Medicine Symposium 2011  
ACSM Annual Conference 2011  
AMSSM Annual Conference 2011  
Colorado AAP Annual Chapter Conference 2011  
Annual Wilderness Medicine Conference 2011  
CU Sports Medicine Symposium 2010  
Wyoming Medical Society Annual Conference 2010  
AAP Annual Conference 2010  
The Children's Hospital Sports Medicine Symposium 2010  
The Children's Hospital Coaches Clinic 2010  
Office-Based Sports Medicine for the Primary Care  
Provider Symposium 2010  
Ortho Day, The Children's Hospital 2010  
AMSSM Annual Conference 2010  
The Children's Hospital Sports Medicine Symposium 2009  
On the Field Management of the Injured Athlete  
Symposium 2009  
Ortho Day, The Children's Hospital 2009  
AMSSM Annual Conference 2009  
AOSSM Annual Conference 2009

Ortho Day, The Children's Hospital 2008  
Office-Based Sports Medicine for the Primary Care  
Provider Symposium 2008  
CU Sports Medicine Shoulder and Knee Symposium 2008  
The Children's Hospital Sports Medicine Symposium 2008  
Rocky Mountain Regional ACSM Conference 2007  
Ortho Day, The Children's Hospital 2007  
ACSM Annual Conference 2007  
AMSSM Annual Conference 2007  
Office-Based Sports Medicine for the Primary Care  
Provider Symposium 2007  
Pediatric Orthopaedics for the Primary Care Provider  
2007  
On the Field Management of the Injured Athlete  
Symposium 2007  
CU Sports Medicine Shoulder and Knee Symposium 2006  
AMSSM Fellows Research Conference 2006  
Advanced Team Physician Course, American Orthopedic  
Sports Medicine Conference 2004

**Pre-Participation Physicals**

Rock Canyon High School Physicals 2015  
Ponderosa High School Physicals 2014  
CAPS Adams 12 Five Star Schools 2010, 2011, 2012,  
2013, 2014, 2015, 2016, 2017, 2018, 2019  
Cherry Creek County 2007, 2008, 2009  
Douglas County 2007, 2008, 2009, 2014  
Aurora Public Schools 2007, 2008, 2012, 2018  
Cherry Creek County 2007, 2008  
Regis University 2006-2007  
University of Denver 2006, 2010, 2011, 2012, 2014, 2015,  
2017, 2018  
Junior High, Senior High, and WVU Athletes 2004-2005