

FULL CURRICULUM VITAE

I. NAME: Mitchell John Dale Rauh

II. EDUCATION

<u>Institution</u>	<u>Years Attended</u>	<u>Degree</u>	<u>Major Field</u>
University of Washington	1990-1998	Ph.D.	Epidemiology
University of Washington	1992-1994	B.S.P.T.	Physical Therapy
San Diego State University	1988-1990	M.P.H.	Health Promotion
University of Nevada-Reno	1980-1985	B.S.	Health Sciences

B. Title of Dissertation

An epidemiological investigation of injuries among high school cross country runners.

III. TEACHING POSITIONS AND RANKS HELD

<u>Institution</u>	<u>Rank</u>	<u>Date(s)</u>	<u>Major Subject</u>
San Diego State University	Professor (<i>Tenured</i>)	08/11- Pres	DPT 881 Seminar in Selected Topics in Physical Therapy: Principles of Evidence Based Practice I DPT 822 Interventions in Musculoskeletal Therapeutics DPT 830 Cardiopulmonary Therapeutics Lab DPT 897 Doctoral Research DPT 889 Doctoral Project ENS 499 Special Study ENS 798 Special Study
Rocky Mountain University of Health Professions Provo, UT	Professor	1/10-07/11	CC 640 Research Methods I (PhD) CC 711 Research Methods II (PhD) AT 715 Epidemiology of Athletic Injuries (PhD) DPT 505 Critical Inquiry I (DPT)
Rocky Mountain University of Health Professions Provo, UT	Associate Professor	07/04-12/09	CC 630 Research Methods I CC 711 Research Methods II AT 715 Epidemiology of Athletic Injuries
Rocky Mountain University of Health Professions Provo, UT	Assistant Professor	07/01-06/04	CC 630 Research Methods I CC 711 Research Methods II AT 715 Epidemiology of Athletic Injuries
San Diego State University School of Exercise & Nutritional Sciences	Lecturer	08/00-05/01	ENS 305 Measurement & Evaluation in Kinesiology PH 607 Research Methods and Proposal Writing PH 668 Seminar in Health Promotion Research
Graduate School of Public Health (Health Promotion)			

San Diego State University
Graduate School of Public Health
(Health Promotion)

Teaching Assistant 01/90-05/90

PH 607 Research Methods and
Proposal Writing

IV. TEACHING EFFECTIVENESS

A. Curriculum Development & Teaching Innovations

1. Doctoral of Physical Therapy (DPT) program, San Diego State University
 - a. 2011-2014: Development of overall curriculum for DPT program
2. Rocky Mountain University of Health Professions
 - a. 2001-2011: Revised curriculum for dissertation process
 - b. 2001-2011: Revised dissertation manuscript format and procedures
 - c. Developed syllabi for following courses:
 - CC 640 Research Methods I (DSc/PhD program)
 - CC 711 Research Methods III (DSc/PhD program)
 - AT 715 Epidemiology of Athletic Injuries (PhD program)
 - PT 505 Critical Inquiry I (Research Methods/Evidence Based Practice] DPT entry level program)
 - MS 607 Critical Inquiry I (Master's program)
 - CC 899.2 Dissertation (DSc/PhD program)

B. Teaching Awards

2014 Faculty and Staff Award, Mortar Board –San Diego State University Jane K. Smith Cap and Gown Chapter (*Student Alison Carrozzi*).

2011 Excellence in Education Award, Sports Physical Therapy Section – American Physical Therapy Association (*Excellence in academic teaching in sports physical therapy education*).

C. Service on Master's Thesis or Dissertation Committees

1. San Diego State University

a. Doctoral Dissertation Committees

In Progress

Kristi Robusto (GSPH)

Published
Papers Abstracts

b. Doctoral Project Committees

In Progress

Rebecca Durant, Thomas Henson, Erin Menefee, Natalie Ruffe, Samantha Sorce, Bradley Whitley, Amber Winkler (DPT) *Chairperson*, Changes in core and lower extremity asymmetry and musculoskeletal injuries in interscholastic cross-country.
Garrett Cabral, Kaycee Gunion, Brook Israel, Michelle Kunde, Bridie McCarey, Katie Reis, Sarah Villar (DPT) *Chairperson*, Associations between upper and lower Y-balance Excursion Tests and musculoskeletal injuries in interscholastic cross-country.

Andrew Adamian, Darren Blair, Jason Hooper, Jack McKnight (DPT) *Chairperson*, Injury rates among high school baseball players by position; Injury incidence among interscholastic baseball players.

Megan Hill, Lindsay Miller, Kara Wickeraad (DPT) *Chairperson*, Selected functional and static outcome measures usefulness in predicting low back injury in women's intercollegiate rowers.

Blair Arceo, Andrea Csaszi, Nicole Daher, Eva Sahatdjian (DPT) *Chairperson*, Selected upper and lower extremity functional and static anatomic outcome measures predict injury in female softball players.

Andy Bhatia, Devon Ehrlichman, Leslie Thompson, Paula Whiting (DPT) *Chairperson*, Injuries in high school interscholastic cross-country: Predicting injuries using selected lower extremity functional and static anatomic measures.

Published
Papers Abstracts

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c. Master's Thesis CommitteesIn Progress

Chanel Nakanishi (GSPH [Epidemiology], MPH, 2015). Risk factors for microbial contamination of musculoskeletal allografts.

Completed

	Published Papers	Abstracts
Emily Schmied (GSPH [Health Promotion], MPH, 2008) Validity of self-reported physical fitness and aerobic fitness test in Marine Corps recruits.		1
Courtney Cowan (ENS, MS, 2007) The relationship between energy balance and bone mineral density in high school female athletes.		1
Kylie Edwards (ENS, MS, 2006) Are female high school runners facing health risks? Associations of menstrual function, bone mineral density and performance.		1
Michelle T. Barrack (ENS, MS, 2006) The prevalence of the female athlete triad in high school cross country runners.	2	2
Julie Steele (GSPH [Epidemiology], MPH, 2005) Risk factors of knee injury in female MCRD recruits.		1
Heidi Graham (ENS, MS, 2004) The relationship between dominant and non-dominant leg bone mineral density levels among high school female soccer players.		1
Shoshi Barkai (ENS, MS, 2004) The influence of sports participation and menarche on bone mineral density among high school female athletes.	1	
Mary Hoskinson (GSPH [Epidemiology], MPH, 2004) The relationship between parent's education level and disordered eating among high school female athletes.		
Yael Pernick (ENS, MS, 2004) Ethnic comparisons of disordered eating behaviors in female high school female athletes.	1	
Mandra J. Lawson (ENS, MS, 2003) An epidemiological investigation of the female athlete triad among girls high school track and field athletes.		1
Dave Mack (GSPH [Health Promotion], MPH, 2002) The promotion of active lifestyles for seniors: A behavioral coaching approach.		
<u>Completed</u>		
Katie Thralls (ENS, MS, 2015). <i>Chairperson</i> . Body mass-related predictors of the Female Athlete Triad among adolescent athletes.		1
Emily Schmied (GSPH [Health Promotion], MPH, 2008) Validity of self-reported physical fitness and aerobic fitness test in Marine Corps recruits.		1
Courtney Cowan (ENS, MS, 2007) The relationship between energy balance and bone mineral density in high school female athletes.		1
Kylie Edwards (ENS, MS, 2006) Are female high school runners facing health risks? Associations of menstrual function, bone mineral density and performance.		1
Michelle T. Barrack (ENS, MS, 2006) The prevalence of the female athlete triad in high school cross country runners.	2	2
Julie Steele (GSPH [Epidemiology], MPH, 2005) Risk factors of knee injury in female MCRD recruits.		1
Heidi Graham (ENS, MS, 2004) The relationship between dominant and non-dominant leg bone mineral density levels among high school female soccer players.		1
Shoshi Barkai (ENS, MS, 2004) The influence of sports participation and menarche on bone mineral density among high school female athletes.	1	
Mary Hoskinson (GSPH [Epidemiology], MPH, 2004) The relationship between parent's education level and disordered eating among high school female athletes.		
Yael Pernick (ENS, MS, 2004) Ethnic comparisons of disordered eating behaviors in female high school female athletes.	1	
Mandra J. Lawson (ENS, MS, 2003) An epidemiological investigation of the female athlete triad among girls high school track and field athletes.		1
Dave Mack (GSPH [Health Promotion], MPH, 2002) The promotion of active lifestyles for seniors: A behavioral coaching approach.		

d. Special Study Projects (ENS 499)In Progress

Rachel Roesgen (2015): Injury proneness among interscholastic cross-country runners.
Emily Tayour (2015): Stress fracture and the Female Athlete Triad: A case report.

**Published
Papers Abstracts**

- Amy Schultz (2015): Injury rates among high school track & field athletes: An event analysis.
- Ali Carrozzi (2014): Interscholastic track and field injuries: A 25-year longitudinal study
- Samantha Source (2014): Interscholastic volleyball injuries: A 20-year longitudinal study
- Maddy Porter (2014): Interscholastic cross-country injuries: A 25-year longitudinal study

2. Rocky Mountain University of Health Professions

Dissertation Committees

In Progress

- Lace Luedke (Orthopaedic & Sports Science, PhD) *Chairperson*, Relationship between step-rate, quadriceps/hamstring ratio and knee and shin pain among high school cross country runners – Incidence and association with step rate.
- Stephen Laslovich (Health Promotion & Wellness, PhD) Increase physical activity among patients with peripheral artery disease (PAD).
- Robert Baker (Orthopaedic & Sports Science, PhD) Analysis of EMG activation levels in the TFL, GMED, GMAX upper fibers in runners with pain.
- Greer Evans Christopher (Orthopaedic & Sports Science, PhD) Relationship between Functional Movement Screen™ scores, Y Balance Test™ scores, and injury occurrence in male soldiers undergoing Special Forces training.
- Sinead FitzGibbons (Orthopaedic & Sports Science, PhD) Relationship between Q-angle and cycling injury.

Completed

- | | <u>Published
Papers</u> | <u>Abstracts</u> |
|---|-----------------------------|------------------|
| Deborah Doerfler (Orthopaedic & Sports Science, PhD, 2013). High-velocity exercises compared to slow-velocity exercises following total knee arthroplasty. | | |
| Cindy Miles (Pediatrics, PhD, 2013) <i>Chairperson</i> , Potential risk factors related to diagnosis of developmental torticollis. | 1 | |
| Ethan Kreiswirth (Athletic Training, PhD) <i>Chairperson</i> , Incidence of musculoskeletal injuries among submission wrestlers: An epidemiological study | 1 | 2 |
| Peter Hoyt (Athletic Training, PhD, 2012) Associations between strength, power, agility, flexibility, the Functional Movement Screen, and the Y Balance test and injury in Division III football players. | | |
| Lisa Lewis (Health Promotion & Wellness, PhD, 2012) <i>Chairperson</i> , Physiological and behavioral characteristics and player profiles in Major League Baseball. | | 1 |
| Jason Brumitt (Orthopaedic & Sports Science, PhD, 2011) <i>Chairperson</i> , Can functional testing identify Division III collegiate athletes who are risk for a lower extremity or low back injury? | 2 | 2 |
| Jason Bennett (Orthopaedic & Sports Science, PhD, 2011) Relationship between isokinetic ankle strength and navicular drop in a cohort of collegiate distance runners with and without exercise related leg pain (ERLP). | 1 | 1 |
| Sarah (Kiernan) Butz (Pediatric Science, PhD, 2011) Relationship between age and dynamic balance in children 5 to12 years. | 1 | |
| Ellen Shanley (Orthopaedic & Sports Science, PhD, 2011) <i>Chairperson</i> ; An epidemiological investigation of injury among high school windmill softball and baseball players. | 3 | 5 |
| Mark V. Paterno (Orthopaedic & Sports Science, PhD, 2010) Relationship between dynamic lower extremity biomechanics and single leg postural stability and a second anterior cruciate ligament injury in a population of athletes returning to sport after unilateral anterior cruciate ligament reconstruction. | 4 | 2 |
| Gregory D. Myer (Athletic Training, PhD, 2010) Development and validation of a clinic-based ACL injury risk prediction algorithm for use in targeted neuromuscular injury prevention training. | 3 | 1 |
| Jill M. Thein-Nissenbaum (Orthopaedic & Sports Physical Therapy, DSc, 2009), <i>Chairperson</i> , The prevalence of disordered eating and menstrual dysfunction in girls' high school sports. | 2 | 2 |

Virginia N. Christensen (Orthopaedics, DSc, 2009) Effects of two different types of ankle bracing on knee joint valgus moment and movements during repeated hop testing in high school aged girls.		
Duane A. Williams (Orthopaedics; DSc, 2008) Alternative methods for measuring scapular protraction and retraction maximal isometric forces.	1	1
Pat Garlock (Sports, DSc, 2008) <i>Chairperson</i> ; Incidence of injury between FieldTurf and natural grass in high school football and soccer athletes.		1
Stephen Black (Sports, DSc, 2008) <i>Chairperson</i> , Nutrition knowledge modification following a brief educational intervention on middle school students.		
Robbin A. Hickman, (Pediatrics, DSc, 2007) Linking family and community ecology with child developmental outcomes among Nevada Early Head Start (UNR-EHS) enrollees.	1	4
Kevin Kemp-Smith (Orthopaedics, DSc, 2006) Comparison of lower extremity injury rates of kiteboarders wearing open or closed foot bindings.		
Melody S. Plisky (Orthopaedics, DSc, 2005) <i>Chairperson</i> ; Relative risk of developing medial tibial stress syndrome associated with navicular drop in high school cross country runners.	1	2
Phillip J. Plisky (Orthopaedics, DSc, 2005) <i>Chairperson</i> ; Relationship between risk of lower extremity injury and postural stability in male and female high school basketball players.	1	2

V. RESEARCH POSITIONS

<u>Institution</u>	<u>Position</u>	<u>Date(s)</u>
Naval Health Research Center/SAIC San Diego, CA	Research Senior Scientist	09/03-Pres
Project SPIRIT (Sports Injury Research in Teens) San Diego, CA	Co-Director	01/03-Pres
Center for Behavioral Epidemiology & Community Research San Diego, CA	Research Associate	08/00-08/02
San Diego State University Graduate School of Public Health School of Exercise & Nutritional Sciences	Adjunct Faculty	09/01-07/14 09/01-07/11
Athletic Health Care System Seattle, WA	Research Associate	09/95-12/98
Harborview Injury Prevention & Research Center Seattle, WA	Research Associate	10/91-04/95
University of Washington Cardiovascular Study Seattle, WA	Research Associate	09/90-09/91
San Diego Health & Exercise Project San Diego, CA	Research Assistant	08/88-08/90

VI. CLINICAL POSITIONS

<u>Institution</u>	<u>Position</u>	<u>Date(s)</u>
SHARP Hospital (<i>Per Diem</i>) San Diego, CA	Staff Physical Therapist	04/01-12/14
Physiotherapy Associates (<i>Per Diem</i>) San Diego, CA	Staff Physical Therapist	04/06-12/07

Inniss Physical Therapy San Diego, CA	Staff Physical Therapist	09/00-07/01
Group Health Cooperative Redmond, WA	Staff Physical Therapist	07/98-08/00
First Hill Care Center Seattle, WA	Staff Physical Therapist Student Clinical instructor:	09/94-10/99
	<ul style="list-style-type: none"> • University of Washington • Northeastern University 	

Physical Therapist Licensure

State of California: Physical therapist licensure #25747 (12/00-Pres)

State of Washington: Physical therapist licensure #6718 (*nonrewed* 12/00)

VII. PROFESSIONAL GROWTH

A. Articles in Refereed Journals

1. **Brumitt J**, Heiderscheid BC, Manske R, **Rauh MJ***. The Lower Extremity Functional Test (LEFT): Normative and epidemiologic data in a D III athlete population, *in press, J Sports Rehab (accepted, 04/27/15)*.
2. Shrier I, Steele RJ, Zhao M, Naimi A, Verhagen E, Stovitz SD, **Rauh MJ**, Hewett TE. A multi-state framework for the analysis of subsequent injury (M-FASIS). *Scand J Med Sci Sports, in press (accepted, 04/23/15)*.
3. Shanley E, Kissenberth MJ, Thigpen CA, Bailey LB, Hawkins RJ, Michener LA, Tokish JM, **Rauh MJ**. Shoulder ROM screening as a predictor of injury among youth and adolescent baseball pitchers. *J Shoulder Elbow Surg, in press (accepted, 03/07/15)*.
4. **Butz SM**, Sweeney JK, Roberts P, **Rauh MJ***. Relationships among age, gender, anthropometric characteristics, and dynamic balance in children 5 to 12 years of age. *Pedtr Phys Ther* 2015;27(2):126-133.
5. **Rauh MJ**, Barrack MT, Nichols JF. Associations between the female athlete triad and injury among high school runners. *Intl J Sports Phys Ther* 2014;9(6):948-958.
6. **Rauh MJ**. Summer training factors and risk of musculoskeletal injury among high school cross-country runners. *J Orthop Sports Phys Ther* 2014;44(10):793-804.
7. Beachy G, **Rauh M**. Middle school injuries: A 20-year multi-sport evaluation at Punahou school. *J Athl Train*. 2014;49(4):493-506.
8. **Brumitt J**, Heiderscheid BC, Manske RC, Niemuth PE, **Rauh MJ***. Off-season training habits and preseason functional test measures of Division III collegiate athletes: A descriptive report. *Intl J Sport Phys Ther* 2014;9(4):447-455.
9. Taylor MK, Stone M, Laurent HK, **Rauh MJ**, Granger DA. Neuroprotective-neurotrophic effect of endogenous dehydroepiandrosterone sulfate during intense stress exposure. *Steroids* 2014;87C:54-58.
10. Paterno MV, **Rauh MJ**, Schmitt LC, Ford KR, Hewett TE. Incidence of second anterior cruciate ligament (ACL) injury 2 years after primary ACL reconstruction and return to sport. *Am J Sports Med* 2014;42(7):1567-1574. [*appeared in summer 2014*]
11. Myer GD, Ford KR, Barber Foss KD, **Rauh MJ**, Paterno MV, Hewett TE. A predictive model to estimate knee abduction moment: Development of a clinical prediction tool to identify athletes at risk for development of patellofemoral pain. *J Athl Train* 2014;49(3):389-398.
12. Macera CA, Aralis HJ, McRoy R, **Rauh MJ**. Posttraumatic stress disorder after combat zone deployment in Navy and Marine Corps men and women. *J Womens Health* 2014;23(6):499-505.
13. Barrack MT, Gibbs J, De Souza MJ, Williams N, Nichols J, **Rauh MJ**, Nattiv A. Bone stress injury and relationships between single and combined Female Athlete Triad risk factors. *Am J Sports Med* 2014;42(4):949-958.
14. Taylor MK, Laurent HK, Larson GE, **Rauh MJ**, Hiller-Lauby MD, Granger DA. Salivary nerve growth factor response to intense stress: Effect of sex and body mass index. *Psychoneuroendocrinology* 2014; 43(5):90-94.
15. Aralis HA, Macera CA, **Rauh MJ**, MacGregor AJ. Traumatic brain injury and PTSD screening efforts evaluated using latent class analysis. *Rehab Psychol* 2014;59(1):68-78.

16. Kreiswirth EM, Myer GD, **Rauh MJ**. Incidence of injury among male Brazilian Jiu Jitsu Fighters at the 2009 Worlds No-Gi Championships. *J Athl Train* 2014;49(1):89-94.
17. Gibbs JC, Nattiv A, Barrack MT, Williams NI, **Rauh MJ**, Nichols JF, De Souza MJ. Low bone density risk is higher in exercising women with multiple Female Athlete Triad risk factors. *Med Sci Sports Exerc* 2014;46(1):167-176.
18. **Brumitt J**, Heiderscheid BC, Manske R, Niemuth P, **Rauh MJ***. Lower extremity functional tests and risk of injury in Division III collegiate athletes. *Int J Sports Phys Ther* 2013;8(3):216-227.
19. **Paterno MV**, Schmitt LC, Ford KR, **Rauh MJ**, Hewett TE. Altered postural sway persists after anterior cruciate ligament reconstruction and return to sport. *Gait Posture* 2013;38(1):136-140.
20. **Rauh MJ**, Aralis HJ, Melcer T, Macera CA, Sessoms P, Bartlett J, Galarneau MR. Effect of TBI among US servicemembers with traumatic amputation. *J Rehabil Res Dev* 2013;50(2):161-172.
21. Macera CA, Aralis HJ, MacGregor AJ, **Rauh MJ**. Do sleep problems mediate the relationship between traumatic brain injury and development of mental health symptoms after deployment? *Sleep* 2013;36(1):83-90.
22. **Shanley E**, Michener LA, Ellenbecker TS, **Rauh MJ***. Shoulder range of motion, pitch count and injuries among interscholastic girls' softball pitchers. *Int J Sport Phys Ther* 2012;(7)5:548-557.
23. Macera CA, Aralis HJ, MacGregor A, **Rauh MJ**, Galarneau MR. Post-deployment symptom changes for Navy/Marine Corps personnel with blast-related traumatic brain injury and/or posttraumatic stress disorder. *J Rehabil Res Dev* 2012;49(8):1197-1208.
24. **Bennett JE**, Reinking MF, **Rauh MJ***. The relationship between isotonic plantar flexor endurance, navicular drop, and exercise-related pain in a cohort of collegiate cross-country runners. *Int J Sport Phys Ther* 2012;7(3):267-278.
25. MacGregor AJ, Dougherty AL, Mayo JA, **Rauh MJ**, Galarneau MR. Occupational correlates of low back pain among U.S. Marines following combat deployment. *Mil Med* 2012;177(7):845-849.
26. Gorman PP, Butler RJ, **Rauh MJ**, Kiesel K, Plisky PJ. Differences in lower quarter Y-Balance Test scores in one sport versus multiple sport high school athletes. *Int J Sport Phys Ther* 2012;7(2):148-153.
27. **Paterno MV**, **Rauh MJ**,* Schmitt LC, Ford KR, Hewett TE. Incidence of contralateral and ipsilateral anterior cruciate ligament (ACL) injury after ACL reconstruction and return to sport. *Clin J Sport Med* 2012;22(2):116-121.
28. **Thein-Nissenbaum JM**, **Rauh MJ**,* Carr KE, Loud KJ, McGuine TA. Prevalence of and relationship between menstrual irregularity and musculoskeletal injury in female high school athletes. *J Athl Train* 2012;47(1):74-82.
29. Macera CA, Aralis H, MacGregor AJ, **Rauh MJ**, Han P, Galarneau MR. Cigarette smoking, body mass index, and physical fitness changes among male Navy personnel. *Nicotine Tob Res* 2011;13(10):965-971.
30. **Shanley E**, **Rauh MJ**,* Michener LA, Ellenbecker TS. Incidence of injuries in high school softball and baseball players. *J Athl Train* 2011;46(6):648-654.
31. **Shanley E**, **Rauh MJ**,* Michener LA, Ellenbecker TS. Relationship between shoulder range of motion measures and shoulder and elbow injury among high school softball and baseball players. *Am J Sports Med* 2011;39(9):1997-2006.
32. **Paterno MV**, Schmitt LC, Ford KR, **Rauh MJ**, Myer GD, Hewett TE. Effects of sex on compensatory landing strategies upon return to sport after anterior cruciate ligament reconstruction. *J Orthop Sports Phys Ther* 2011;41(8):553-559.
33. **Barrack MT**, Van Loan MD, **Rauh MJ**, Nichols JF. Body mass, training, menses, and bone in adolescent runners: A three-year follow-up. *Med Sci Sports Exerc* 2011;43(6):959-966.
34. Macera CA, Aralis H, MacGregor AJ, **Rauh MJ**, Heltmenes K, Galarneau MR. Weight changes among male Navy personnel deployed to Iraq or Kuwait in 2005–2008. *Mil Med* 2011;176(5):500-506.
35. Nichols JF, **Rauh MJ**. Longitudinal changes in bone mineral density in male master cyclists and non-athletes. *J Strength Cond Res* 2011;25(3):727-734.
36. **Thein-Nissenbaum JM**, **Rauh MJ**,* Carr KE, Loud KJ, McGuine TA. Associations between disordered eating, menstrual dysfunction and musculoskeletal injury among female high school athletes. *J Orthop Sports Phys Ther* 2011;41(2):60-69.
37. **Hickman RA**, McCoy SW, Long TM, **Rauh MJ**.* Applying contemporary developmental and movement science theories and evidence to early intervention practice. *Infants Young Child* 2011;24(1):29-41.
38. Nichols JF, Aralis H, Merino SG, Barrack MT, Stalker-Fader L, **Rauh MJ**.[†] Utility of the Actiheart accelerometer for estimating exercise energy expenditure in female adolescent runners. *Int J Sport Nutr Exerc Metab* 2010;20(6):487-495.

39. Paterno MV, Schmitt LC, Ford KR, **Rauh MJ**, Myer GD, Huang B, Hewett TE. Biomechanical measures during landing and postural stability predict second anterior cruciate ligament injury after ACL reconstruction and return to sport. *Am J Sports Med* 2010;38(10):1968-1978.
40. Barrack MT, **Rauh MJ**, Nichols JF. Cross-sectional evidence of suppressed bone mineral accrual among female adolescent runners. *J Bone Min Res* 2010;25(8):1850-1857.
41. Myer GD, Ford KR, Barber-Foss KD, Goodman AG, Ceasar A, **Rauh MJ**, Divine JG, Hewett TE. The incidence and potential pathomechanics of patellofemoral pain in female athletes. *Clin Biomech* 2010;25(7):700-707.
42. Barrack MT, Van Loan MD, **Rauh MJ**, Nichols JF. Physiologic and behavioral indicators of an energy deficiency in female adolescent runners with elevated bone turnover. *Am J Clin Nutr* 2010;92(3):652-659.
43. **Rauh MJ**, Macera CA, Trone DW, Reis JP, Shaffer RA. Static anatomic measures predict selected lower extremity overuse injuries in female military recruits. *Mil Med* 2010;175(5):329-335.
44. **Rauh MJ**, Nichols JF, Barrack MT. Relationship between injury and disordered eating, menstrual irregularity, and low BMD among high school athletes. *J Athl Train* 2010;45(3):243-252.
45. Williams DA, Roush JR, Davies GJ, Ellenbecker TS, **Rauh MJ**.* Alternative methods for measuring scapular muscles protraction and retraction maximal isometric forces. *N Am J Sport Phys Ther* 2009;4(4):200-209.
46. Barrack MT, **Rauh MJ**, Nichols JF. Prevalence of and traits associated with low bone mineral density in female adolescent endurance runners. *Med Sci Sports Exerc* 2008;40(12):2015-2021.
47. Barrack MT, **Rauh MJ**, Barkai HS, Nichols JF. Dietary restraint and low bone mass in female adolescent endurance runners. *Am J Clin Nutr* 2008;87(1):36-43.
48. **Rauh MJ**, Koepsell TD, Rivara FP, Rice SG, Margherita AJ. Quadriceps angle and risk of injury among high school cross-country runners. *J Orthop Sports Phys Ther* 2007;37(12):725-733.
49. Reis JP, Trone DW, Macera CA, **Rauh MJ**. Factors associated with discharge during marine corps basic training. *Mil Med* 2007;172(9):936-941.
50. **Rauh MJ**, Macera CA, Ji M, Wiksten DL. Subsequent injury patterns in girls' high school sports. *J Athl Train* 2007;42(4):486-494.
51. Nichols JF, **Rauh MJ**,[†] Barrack MT, Barkai HS, Pernick Y. Disordered eating and menstrual irregularity in high school athletes: Comparisons among individual and team sports. *Intl J Sport Nutr Exerc Metab* 2007;17(4):364-377.
52. Nichols JF, **Rauh MJ**,[†] Barrack MT, Barkai HS. Bone mineral density in female high school athletes: Interactions and type of mechanical loading. *Bone* 2007;41(3):371-377.
53. Barkai HS, Nichols JF, **Rauh MJ**, Barrack MT, Lawson MJ, Levy SS. Influence of sports participation and menarche on bone mineral density of female high school athletes. *J Sci Med Sport* 2007;10(3):170-179.
54. Plisky MS, **Rauh MJ**,* Heiderscheit B, Underwood FB, Tank RT. An epidemiological investigation of medial tibial stress syndrome among high school cross-country runners. *J Orthop Sports Phys Ther* 2007;37(2):40-47.
55. Plisky PJ, **Rauh MJ**.* Kaminski TW, Underwood FB. Star Excursion Balance Test as a predictor of lower extremity injury in boys and girls high school basketball players. *J Orthop Sports Phys Ther* 2006;36(12):911-919.
56. **Rauh MJ**, Macera CA, Trone DW, Shaffer RA, Brodine SK. Epidemiology of stress fracture and overuse injury in women recruits. *Med Sci Sports Exerc* 2006;38(9):1571-1577.
57. Pernick Y, Nichols JF, **Rauh MJ**, Kern M, Ji M, Lawson MJ, Wilfley D. Disordered eating among a multi-racial/ethnic sample of female high school athletes. *J Adol Health* 2006;38(6):689-695.
58. Nichols JF, **Rauh MJ**,[†] Lawson M, Ji M, Barkai HS. Prevalence of the female athlete triad syndrome among high school athletes. *Arch Pediatr Adolesc Med* 2006;160(2):137-142.
59. **Rauh MJ**, Koepsell TD, Rivara FP, Margherita AJ, Rice SG. Epidemiology of musculoskeletal injuries among high school cross-country runners. *Am J Epidemiol* 2006;163(2):151-159.
60. Shaffer RA, **Rauh MJ**, Trone DW, Brodine SK, Macera CA. Predictors of stress fracture susceptibility in young women recruits. *Am J Sports Med* 2006;34(1):108-115.
61. **Rauh MJ**, Margherita AJ, Koepsell TD, Rice SG, Rivara FP. High school cross country running injuries: A longitudinal study. *Clin J Sports Med* 2000;10(2):110-116.
62. McGuire V, **Rauh MJ**, Mueller BA, Hickok D. The risk of diabetes in a subsequent pregnancy associated with prior history of gestational diabetes or macrosomic infant. *Paediatr Perinat Epidemiol* 1996;10(1):64-72.
63. Grossman DC, **Rauh MJ**, Rivara FP. The prevalence of corporal punishment among students in Washington State schools. *Arch Pediatr Adolesc Med* 1995;149(5):529-532.

64. **Rauh MJD**, Hovell MF, Hofstetter CR, Sallis JF, Gleghorn A. Reliability and validity of self-reported physical activity in Latinos. *Int J Epidemiol* 1992;21(5):966-971.
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B. Manuscripts Under Review in Refereed Journals

1. Doerfler D, Andrews R, Burke B, Mermier C, **Rauh MJ***. High-velocity exercises compared to slow-velocity exercises following total knee arthroplasty, *in review*, *J Geriatric Phys Ther*.
2. Taylor MK, Carpenter J, Stone M, Hernandez L, **Rauh MJ**, Laurent HK, Granger DA. Genetic and environmental modulation of neurotrophic and anabolic stress response, *in review*, *Physiology and Behavior*.
3. Barrack MT, Nichols JF, **Rauh MJ**, Van Loan MD. Dietary restraint and a novel eating perceptions scale predict energy deficiency in female adolescent runners, *in review*, *Intl J Sport Nutr Exerc Metab*.
4. Thralls K, Nichols JF, Barrack MT, Kern M, **Rauh MJ***. Body mass-related predictors of the Female Athlete Triad among adolescent athletes *in review*, *Intl J Sport Nutr Exerc Metab*.

Graduate Student, *Anchor author for supervised student dissertations or master's theses.

C. Manuscripts in preparation

1. Beachy G, Akau C, Taylor MK, **Rauh MJ**. Gender comparison of high school wrestlers: 1999-2013 (*in preparation for Am J Sports Med*).
2. Kemp-Smith K, **Rauh MJ***. An epidemiological investigation of kiteboarding injuries (*in preparation for Athl Train Sports Health Care*).
3. Kreiswirth EM, Plisky PJ, Chu D, Myer GD, Grandi RK, **Rauh MJ***. Incidence of injury among Brazilian Jiu-Jitsu fighters at the 2011 World Jiu-Jitsu Championships (*in preparation for Sports Health*).
4. Miles C, Sweeney JK, Ganley K, **Rauh MJ***. Potential risk factors related to diagnosis of torticollis (*in preparation for Phys Ther*).
5. **Rauh MJ**, Larson GE, Schmied EA, Padilla GA, Taylor MK. Sex differences in neuroendocrine hormones in a SERE population (*in preparation for Stress*).
6. **Rauh MJ**. The relationship between leg-length discrepancy and risk of injury among high school runners (*in preparation for Int J Sports Phys Ther*).
7. **Rauh MJ**, Beachy G. Secondary school cross-country injuries over a 25 year period (*Phys Ther in Sport @ same time*).
8. **Rauh MJ**, Beachy G. Secondary school track & field injuries over a 25 year period (*Phys Ther in Sport @ same time*).
9. **Rauh MJ**. Review paper for gender differences in interscholastic cross-country and track & field injuries, (*Phys Ther in Sport @ same time*).
10. Luedke L, Heiderscheid BC, Williams DS, Rauh MJ. Step Rate as risk factor for running injuries in high school cross-country runners. (*in preparation for Med Sci Sport Exerc*).
11. **Rauh MJ**, Barrack MT, Nichols JF. Associations between BMD, DE, MD, and subsequent injury among high school runners: Are these athletes really ready to return to sport? (*submitted to Med Sci Sports Exerc?*)
12. **Rauh MJ**, Butler RJ, Kiesel KB, Plisky PJ. Dynamic balance among runners with and without prior injury.
13. **Rauh MJ**, Heiderscheid BC. Training error, seasonal and anatomic factors in relationship to injury among high school runners.
14. **Rauh MJ**, Roesgen R, Beachy G. Injury proneness in interscholastic runners over a 25 year period (*in preparation for Sports Health*).
15. **Rauh MJ**, Rodriguez I, Paterno MV, Beachy G. Anterior cruciate ligament injuries among competitive interscholastic high school and middle school athletes over a 24-year period (*in preparation for Am J Sports Med*).

Graduate Student, *Anchor author for supervised student dissertations or master's theses.

D. Letters to the Editor

1. De Souza MJ, Williams NI, Nattiv A, Joy E, Misra M, Loucks AB, Matheson G, Olmsted MP, Barrack M, Mallinson RJ, Gibbs JC, Goolsby M, Nichols JF, Drinkwater B, Sanborn C, Agostini R, Otis CL, Johnson, MD, Hoch AZ, Alleyne JMK, Wadsworth LT, Koehler K, VanHeest J, Harvey P, Weiss Kelly AK, Fredericson M, Brooks GA, O'Donnell E, Callahan LR, Putukian M, Costello L, Hecht S, **Rauh MJ**, McComb J. Misunderstanding the female athlete triad: Refuting the IOC Consensus Statement, Beyond the female athlete triad-Relative Energy Deficiency in Sport (RED-S). *Br J Sport Med* 2014 48(20):1461-1465.
2. McHugh MP, Shanley E, Tyler TF, **Rauh MJ**, Michener LA, Ellenbecker TS, Garrison JC, Thigpen CA. Shoulder and elbow injuries in high school softball and baseball players: letter to the editor/Response. *Am J Sports Med* 2012;40(9):NP21.

E. Chapters in Refereed Books

1. Marshall SW, Rauh MJ. *Epidemiology*. IN Musculoskeletal and Sports Medicine: Essentials for the Primary Care Provider (4th ed), Birrer RB, O'Connor FF (editors). CRC Press, Inc. NY, New York, *in press* (2015).
2. **Rauh MJ**, Macera CA, Marshall SW. Applied Sports Injury Epidemiology. IN *Athletic and Sports Issues in Musculoskeletal Rehabilitation*, Magee DJ, Manske RC, Zachazewski JE, Quillen WS (editors), Elsevier/Saunders, St. Louis, MO, 2011; ISBN: 978-1-4160-2264-0.
3. **Rauh MJ**, Macera CA. Athletics. IN *Epidemiology of Injury in Olympic Sports*, Caine DJ, Harmer PA, Schiff MA (editors). The Encyclopedia of Sports Medicine – An IOC Medical Commission Publication; Blackwell Publishing Ltd., Oxford, UK, 2010; ISBN: 978-1-4051-7364.

E. Abstracts/Presentations in Refereed Proceedings (PL=platform [n=55], PO=poster [n=62])

1. Luedke L, Heiderscheid BC, Williams DS, Rauh MJ. Step Rate and Risk of Anterior Knee Pain and Shin Injury in High School Cross Country Runners. *Submitted to 2016 Combined Sections Meeting, American Physical Therapy Association, Anaheim, CA*
2. O'Toole, AR, Ithurburn MP, Rauh MJ, Hewett TE, Paterno MV, Schmitt LC. Rates of Meeting Recommended Return-to-Sport Criteria Cutoffs in Young Athletes after Anterior Cruciate Ligament Reconstruction Previously Cleared for Return to High-Level Activity. *Submitted to Ohio State University Sportsmedicine Research Day Meeting.*
3. Thralls KL, Nichols JF, Barrack MT, Kern M, Rauh MJ*. Anthropometric predictors of the female athlete Triad components among adolescent athletes. *Accepted, 2015 American College of Sports Medicine Meeting, San Diego, CA (PO).*
4. Miles C, Sweeney J, Ganley K, Rauh M*. Potential risk factors related to the diagnosis of muscular torticollis in infants less than 24 months of age. *Accepted, 2015 World Congress for Physical Therapy, Singapore, May 1-5, 2015 (PO).*
5. Brumitt J, Heiderscheid BC, Manske RC, Niemuth PE, **Rauh MJ***. The Lower Extremity Functional Test (LEFT): Normative and epidemiologic data in a collegiate female athlete population. *J Orthop Sports Phys Ther* 2015;45(1):A165. 2015 Combined Sections Meeting, American Physical Therapy Association, Indianapolis, IN. (PO)
6. Paterno MV, Schmitt LC, Huang B, Ford KR, **Rauh MJ**, Hewett TE. Hip moment during landing, hip strength and self-reported quality of life predict contralateral anterior cruciate ligament (ACL) injury after ACL reconstruction and return to sport. *J Orthop Sports Phys Ther* 2015;45(1):A73-74. 2015 Combined Sections Meeting, American Physical Therapy Association, Indianapolis, IN. (PL)
7. **Rauh MJ**, Carrozzi A, Beachy G. Interscholastic track and field injuries: A 25-year longitudinal study. *J Orthop Sports Phys Ther* 2015;45(1):A61. 2015 Combined Sections Meeting, American Physical Therapy Association, Indianapolis, IN. (PL)
8. Doerfler D, Andrews R, Burke B, **Rauh M**, Mermier C. High velocity quadriceps exercises compared to slow velocity quadriceps exercises following total knee arthroplasty. *Gerontologist* 2014;54:(Suppl 2):p.90; NP doi:10.1093/geront/gnu106. 67th Annual Scientific Meeting, Washington, DC Nov 5-9, 2014. (PO)
9. Taylor MK, Laurent HK, Larson GE, Rauh MJ, Hiller Lauby MD, Granger DA (2014, Aug). Salivary nerve growth factor response to intense stress: effect of sex and body mass index. 2014 Military Health Services Research Symposium, *MHSRS-857, p.38*, Orlando, FL. (PO)
10. Shanley E, Bailey LB, **Rauh M**, Kissenberth MJ, Noonan TJ, Hawkins RJ, Thigpen CA. Influence of a prevention program on arm injury risk: An RCT in adolescent pitchers. Final Program, p. 33, <http://www.sportsmed.org/Education/Meetings/Annual Meeting 2014/2014 Annual Meeting/> &

- <http://www.sportsmed.org/tabs/education/archives.aspx>. 2014 American Orthopedic Society for Sports Medicine Meeting, Seattle, WA (PO).
11. Shanley E, Bailey LB, Rauh MJ, Kissenberth MJ, Noonan TJ, Hawkins RJ, Thigpen CA. Influence of a prevention program on arm injury risk: A randomized control trial in adolescent pitchers. *J Athl Train* 2014;49(3):S-105. 2014 National Athletic Trainers Association Meeting, Indianapolis, IN (PL).
 12. **Rauh MJ**, Padilla G, Schmied EA, Hiller-Lauby MD, Taylor MK. Sex differences in catabolic and anabolic hormone responses in military survival trainees. *Med Sci Sports Exerc* 2014;45(5):S705. 2014 ACSM Annual Meeting and World Congress on Exercise is Medicine, Orlando, FL (PO).
 13. Taylor MF, Padilla GA, Schmied EA, Hiller-Lauby MD, **Rauh MJ**. SNGF responses in military survival trainees. *Med Sci Sports Exerc* 2014;45(5):S705. 2014 ACSM Annual Meeting and World Congress on Exercise is Medicine, Orlando, FL (PO).
 14. Barrack M, Nichols J, **Rauh M**, Van Loan M. Evidence of energy deficiency, using doubly-labeled water, among adolescent endurance runners [14-LB-11522-EB]. 2014 Experimental Biology Conference, San Diego, CA, p13, www.experimentalbiology.org. (PO).
 15. Whiting PM, Beachy G, Bhatia RA, Thompson LA, Ehrlichman DJ, **Rauh MJ***. Interscholastic cross-country running injuries: A 24-year longitudinal study. *J Orthop Sports Phys Ther* 2014;44(1):A178. 2014 Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV. (PO)
 16. Miller LK, Beachy G, Hill ME, Wickeraad KM, Nichols JF, **Rauh MJ***. Incidence of injury in interscholastic outrigger canoe-paddling: A 25-year longitudinal study. *J Orthop Sports Phys Ther* 2014;44(1):A178. 2014 Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV. (PO)
 17. Rodriguez I, Beachy G, Paterno MV, **Rauh MJ***. Anterior cruciate ligament injuries in a secondary school over a 24-year period. *J Orthop Sports Phys Ther* 2014;44(1):A171. 2014 Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV. (PO)
 18. McKnight JS, Beachy G, Adamian A, Blair DM, Hooper JK, Rosenthal MD, Goble DJ, **Rauh MJ***. Injury incidence among interscholastic baseball players. *J Orthop Sports Phys Ther* 2014;44(1):A171-172. 2014 Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV. (PO)
 19. Sahatdjian EM, Beachy G, Villar SR, Arceo BS, Crooks KA, Shanley E, **Rauh MJ***. Injury rates among high school girls' softball players by position. *J Orthop Sports Phys Ther* 2014;44(1):A161-170. 2014 Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV. (PO)
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 23. Miles C, Sweeney JK, Ganley K, Rauh MJ*. Positional risk factors related to diagnosis of developmental torticollis. *Pediatr Phys Ther.* 2014;26(1):105. 2014 Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV. (PL).
 24. Paterno MV, **Rauh M**, Schmitt LC, Ford KR, Hewett TE. Incidence of second anterior cruciate ligament (ACL) injury 2 years after primary ACL reconstruction and return to sport, 2013 *American Orthopedic Society for Sports Medicine Meeting, Chicago, IL.* www.sportsmed.org/Education/Meeting_2013/13_Annual_Meeting/. (PL)
 25. Gibbs JC, Nattiv A, Barrack MT, Williams NI, Wagstaff DA, **Rauh MJ**, Nichols JF, De Souza MJ. Evaluation of female athlete triad-related factors to identify low bone mineral density in exercising women. American College of Sports Medicine 60th Annual & 4th World Congress Meeting, Indianapolis, IN. *Med Sci Sports Exerc* 2013;45(5):S546-S547. (PO)
 26. Nichols J, **Rauh M**, Barrack M, Van Loan M. Anthropometric, bone, and hormonal characteristics of amenorrheic, oligomenorrheic, and eumenorrheic adolescent runners. American College of Sports Medicine 60th Annual & 4th World Congress Meeting, Indianapolis, IN. *Med Sci Sports Exerc* 2013;45(5):S61. (PO)
 27. Barrack MT, Gibbs J, De Souza MJ, Williams N, Nichols J, **Rauh M**, Nattiv A. Bone stress injury and relationships between single and combined female athlete triad risk factors. American College of Sports Medicine 60th Annual & 4th World Congress Meeting, Indianapolis, IN. *Med Sci Sports Exerc*

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28. **Rauh MJ**, Barrack MT, Van Loan MD, Nichols JF. Prevalence of menstrual dysfunction, low BMD among high school cross-country runners with normal eating behaviors. American College of Sports Medicine 60th Annual & 4th World Congress Meeting, Indianapolis, IN. *Med Sci Sports Exerc* 2013;45(5):S61 (PO)
 29. **Brumitt RJ**, Heiderscheid BC, Manske R, Niemuth P, **Rauh MJ***. Functional testing and prediction of lower extremity or low back injury among Division III collegiate athletes. 2013 Combined Sections Meeting, American Physical Therapy Association, San Diego, CA. *J Orthop Sports Phys Ther* 2013;43(1):A61. (PL)
 30. **Rauh MJ**, Barrack MT, Nichols JF. Relationships between female athlete triad conditions and subsequent musculoskeletal injury among competitive female high school distance runners. 2013 Combined Sections Meeting, American Physical Therapy Association, San Diego, CA. *J Orthop Sports Phys Ther* 2013;43(1):A52-A53. (PL)
 31. Paterno MV, Schmitt LC, Ford KR, **Rauh MJ**, Thomas S, Hewett TE. Hip abduction strength predicts second anterior cruciate ligament (ACL) injury after ACL reconstruction and return to sport. 2013 Combined Sections Meeting, American Physical Therapy Association, San Diego, CA. *J Orthop Sports Phys Ther* 2013;43(1):A43-A44. (PL)
 32. Shanley E, Kissenberth MJ, Thigpen CA, Bailey L, Hawkins RJ, Michener LA, **Rauh MJ***. Preseason ROM screening as a predictor of injury among youth, adolescent and adult baseball pitchers. 2013 Combined Sections Meeting, American Physical Therapy Association, San Diego, CA. *J Orthop Sports Phys Ther* 2013;43(1):A43. (PL)
 33. **Williams DA**, Roush JR, Davies GJ, Ellenbecker TS, **Rauh MJ***. Clinical alternatives to measuring scapular muscle strength. 2012 International Federation of Orthopaedic Manipulative Physical Therapists Meeting. (PO) Quebec City, Quebec; Sept 30-Oct 5, 2012. (PO)
 34. **Rauh MJ**, Aralis HJ, Macera CA, Bartlett J, MacGregor AJ, Han PP, Galarneau MR. Gender comparisons of sports/recreation- and training-related injuries among U.S. service members in Operation Iraqi Freedom, American College of Sports Medicine 59th Annual & 3rd World Congress Meeting, San Francisco, CA. *Med Sci Sports Exerc* 2012;44(5):S628-629. (PO)
 35. Macera CA, Aralis HJ, **Rauh MJ**. Do sleep problems mediate development of mental health symptoms after deployment? American College of Sports Medicine 59th Annual & 3rd World Congress Meeting, San Francisco, CA. *Med Sci Sports Exerc* 2012;44(5):S508. (PO).
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 37. **Rauh MJ**, Aralis HJ, Macera CA, Bartlett JL, Boswell LL, Sessoms PH, MacGregor AJ, Han PP, Galarneau MR. Non-battle knee-related injuries among U.S. service members in OIF. 2012 Combined Sections Meeting, American Physical Therapy Association, Chicago, IL. *J Orthop Sports Phys Ther* 2012;42(1):A121. (PO)
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 39. **Bennett JE**, Reinking MF, **Rauh MJ***. The relationship between isotonic plantar flexor endurance, navicular drop, and exercise-related pain in a cohort of collegiate cross-country runners. 2012 Combined Sections Meeting, American Physical Therapy Association, Chicago, IL. *J Orthop Sports Phys Ther* 2012;42(1):A54. (PL)
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 42. **Kreiswirth EM**, Myer GD, **Rauh MJ***. Injury incidence in submission wrestling fighters during the 2009 Worlds No-Gi Championships. 2011 National Athletic Trainers Association Meeting, New Orleans, LA. *J Athl Train* 2011;46(3):S85. (PL)
 43. Barrack MT, Van Loan MD, **Rauh MJ**, Nichols JF. The Eating Disorder Examination Questionnaire and future menstrual function, bone mass change in adolescent runners. 2011 Annual American College of Sports Medicine Meeting, Denver, CO. *Med Sci Sports Exerc* 2011;43(5):S576. (PO)

44. **Rauh MJ**, Nichols JF, Barrack MT, Van Loan MD. Attitudes and beliefs regarding menstrual cycles, caloric needs and performance in high school cross-country runners. 2011 Annual American College of Sports Medicine Meeting, Denver, CO. *Med Sci Sports Exerc* 2011;43(5):S373. (PO)
45. Shanley E, **Rauh MJ***, Michener LA, Ellenbecker TS. Pitch count and risk of shoulder and elbow injuries in interscholastic softball and baseball players. 2011 Annual American College of Sports Medicine Meeting, Denver, CO. *Med Sci Sports Exerc* 2011;43(5):S245. (PO)
46. Macera CA, Aralis HJ, **Rauh MJ**, MacGregor A. Postdeployment symptom reporting for blast-related traumatic brain injury and/or Posttraumatic stress syndrome. 2011 Annual American College of Sports Medicine Meeting, Denver, CO. *Med Sci Sports Exerc* 2011;43(5):S243. (PO)
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49. **Rauh MJ**, Koepsell TD. Pre-season training habits and risk of injury among interscholastic cross-country runners. 2011 Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA. *J Orthop Sports Phys Ther*, 2011;41(1):A50-A51. (PL)
50. Shanley E, **Rauh MJ***, Michener LA, Ellenbecker TS, Garrison JC, Thigpen CA. Relationship between risk of shoulder and elbow injuries and shoulder range of motion measures in high school softball and baseball players. 2011 Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA. *J Orthop Sports Phys Ther* 2011;41(1):A46. (PL)
51. Paterno MV, Schmitt LC, Ford KR, **Rauh MJ**, Myer GD, Hewett TE. Biomechanical limb asymmetries in landing at the time of return to sport after anterior cruciate ligament reconstruction. 2011 Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA. *J Orthop Sports Phys Ther* 2011;41(1):A43. (PL)
52. Heltemes KJ, Aralis H, Macera CA, MacGregor AJ, Dougherty AL, **Rauh MJ**, Han PP, Galarneau MR. Examining deployment-related correlates of physical readiness among U.S. Navy personnel. 2010 13th Annual Force Health Protection Conference, Phoenix, AZ. (PO)
53. Kreiswirth EM, Myer GD, **Rauh MJ***. The relationship of belt rank level and reported injury in submission wrestling at the 2009 World's No-GI championship. 2010 National Strength and Conditioning Association Conference, Orlando, FL. <http://www.nasca-lift.org/NatCon2010/>. (PL)
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56. Gorman PP, Butler RJ, Plisky PJ, Kiesel KB, **Rauh MJ**. Performance differences across competition levels in the performance of the Y Balance Test in soccer. 2010 Annual American College of Sports Medicine Meeting, Baltimore, MD. *Med Sci Sports Exerc* 2010;42(5):S525. (PO)
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 75. Hickman RA, McCoy SW, **Rauh MJ**, Long T, Schuerman S. Linking family and community ecology with child developmental outcomes among Nevada Early Head Start enrollees. 2009 Combined Sections meeting, American Physical Therapy Association, Las Vegas, NV. *Pediatr Phys Ther* 2009;21(1):113-114. (PO)
 76. Hickman RA, McCoy SW, **Rauh MJ**, Long T, Landers M. Experience as the link between contemporary ecologic theories and movement science in early intervention. 2009 Combined Sections meeting, American Physical Therapy Association, Las Vegas, NV. *Pediatr Phys Ther* 2009;21(1):113. (PO)
 77. Plisky P, Kiesel K, Gorman PP, **Rauh MJ**. Comparison of performance on the Star Excursion Balance Test by sport, competition level, and gender. 2009 Combined Sections meeting, American Physical Therapy Association, Las Vegas, NV. *J Orthop Sports Phys Ther* 2009;39(1):A111. (PL)

78. **Rauh MJ**, Beachy G. High school girls' cross-country running injuries: A 20-year longitudinal study. 2009 Combined Sections meeting, American Physical Therapy Association, Las Vegas, NV. *J Orthop Sports Phys Ther* 2009;39(1):A110-A111. (PL)
79. **Rauh MJ**, Nichols JF, Barrack MT. Associations of lower extremity injury with disordered eating, menstrual dysfunction, and low bone mineral density among female high school track & field and cross-country runners. 2009 Combined Sections meeting, American Physical Therapy Association, Las Vegas, NV. *J Orthop Sports Phys Ther* 2009;39(1):A110. (PL)
80. Thein-Nissenbaum JM, **Rauh MJ***, Carr KC, McGuine TA, Loud K. Prevalence and relationship of menstrual dysfunction and musculoskeletal injury in female high school athletes. 2009 Combined Sections meeting, American Physical Therapy Association, Las Vegas, NV. *J Orthop Sports Phys Ther* 2009;39(1):A109-A110. (PL)
81. Schmied E, Macera CA, **Rauh MJ**, Han PP, Trone DW, Shaffer RA, Nichols JF, Talavera G. Use of self-perceived fitness level to measure objective fitness in male and female marine recruits. 2008 Southwest Chapter, American College of Sports Medicine Meeting, San Diego, CA. *Southwest Chapter Amer Col Sports Med Meet Proceed* 2008;p25. (PO)
82. Nichols JF, **Rauh MJ**, Barrack MT. Associations of sport injury with disordered eating, menstrual dysfunction, and low bone mineral density among female high school athletes. 2008 Second International Congress on the Science of Physical Activity and Sport, Universidad de Europa de Madrid, Spain. *Proceed Second Intl Congress Sci Phys Activ Sport* 2008. (PL)
83. Thein-Nissenbaum JM, **Rauh MJ***, Carr KC, McGuine TA, Loud K. The prevalence of disordered eating, menstrual dysfunction and musculoskeletal injury in female high school athletes. 2008 National Athletic Trainers Association Meeting, St. Louis, MO. *J Athl Train* 2008;43(2):S98-S99. (PO)
84. **Rauh MJ**, Macera CA, Schmied EA, Han P, Trone DW, Shaffer RA. Prevalence and correlates of menstrual irregularity among female Marine Corps recruits 2008 American College Sports Medicine Meeting, Indianapolis, IN. *Med Sci Sports Exerc* 2008;40(5):S232. (PO)
85. Cowan C, Nichols JF, **Rauh MJ**. Estimates of energy availability in female high school distance runners. 2007 Southwest Chapter, American College of Sports Medicine Meeting, San Diego, CA. *Southwest Chapter Amer Col Sports Med Meet Proceed* 2007;p22. (PO)
86. **Rauh MJ**, Macera CA, Trone DW, Shaffer RA, Thompson KR. Risk factors for training-related shin splint injuries in female recruits. 2008 Combined Sections meeting, American Physical Therapy Association, Nashville, TN. *J Orthop Sports Phys Ther* 2008;38(1):A75-A76. (PL)
87. Hickman R, **Rauh MJ***, Westcott-McCoy S, Long TM. Concurrence of parent and parent-completed screening tools with professionally-administered tests of motor developmental skill and function in 2 and 3 year-old early Head Start enrollees. 2008 Combined Sections meeting, American Physical Therapy Association, Nashville, TN. *Pediatr Phys Ther* 2008;20(1):93. (PL)
88. Barrack MT, **Rauh MJ**, Nichols JF. Menstrual irregularity and low BMD in female adolescent long-distance runners by BMI status. 2007 American College Sports Medicine Meeting, New Orleans, LA. *Med Sci Sports Exerc* 2007;39(5):S2. (PL)
89. **Rauh MJ**, Macera CA, Trone DW, Reis JP, Villasenor A. Associations between selected lower extremity anatomic measures and common overuse injuries in female recruits. 2007 American College Sports Medicine Meeting, New Orleans, LA. *Med Sci Sports Exerc* 2007;39(5):S392. (PO)
90. Hickman R, Westcott SL, **Rauh MJ**, Long TM. Linking family and community ecology with child developmental outcome among Nevada Early Head Start (NEHS) enrollees. 2007 Combined Sections Meeting, American Physical Therapy Association, Boston, MA. *Pediatr Phys Ther* 2007;19(1):79-80. (PL)
91. Graham HD, **Rauh MJ**, Barkai H, Nichols JF. Bone mineral density in high school female soccer players: Dominant vs. non-dominant legs. 2007 Combined Sections Meeting, American Physical Therapy Association, Boston, MA. *J Orthop Sports Phys Ther* 2007;37(1):A77-A78. (PL)
92. **Rauh MJ**, Graham HD, Nichols JF. Injury patterns in girls' high school soccer. 2006 Southwest Chapter, American College of Sports Medicine Meeting, San Diego, CA. *Southwest Chapter Amer Col Sports Med Meet Proceed* 2006;p25. (PO)
93. Edwards K, Nichols J, Barrack M, **Rauh M**. Are female high school runners facing health risks? Associations of menstrual function, bone mineral density, and performance. 2006 Southwest Chapter, American College of Sports Medicine Meeting, San Diego, CA. *Southwest Chapter Amer Col Sports Med Meet Proceed* 2006;p22. (PO)
94. **Rauh MJ**, Nichols JF, Barrack MT. Injury patterns in girl's interscholastic sports. 2006 American College Sports Medicine Meeting, Denver, CO. *Med Sci Sports Exerc* 2006;38(5):S50-S51. (PL)

95. Nichols JF, **Rauh MJ**, Barrack MT. Relationships between the Eating Disorder Examination Questionnaire subscales, bone mineral density and menstrual irregularity in female high school cross-country runners. 2006 American College Sports Medicine Meeting, Denver, CO. *Med Sci Sports Exerc* 2006;38(5):S109. (PL)
96. **Barrack MT**, **Rauh MJ**, Nichols JF. Lower BMD Z-scores in older vs. younger female high school cross-country runners. 2006 American College Sports Medicine Meeting, Denver, CO. *Med Sci Sports Exerc* 2006;38(5):S49. (PL)
97. Macera CA, **Rauh MJ**, Trone DW. Rates and risk factors for overuse injury among female recruits. 2006 American College Sports Medicine Meeting, Denver, CO. *Med Sci Sports Exerc* 2006;38(5):S348. (PO)
98. **Plisky P**, **Rauh MJ***, Kaminski T, Underwood F. Star Excursion Balance Test predicts lower extremity injury in boys and girls high school basketball players. 2006 Combined Sections Meeting, American Physical Therapy Association, San Diego, CA. *J Orthop Sports Phys Ther* 2006;36(1):A81-82. (PL)
99. **Plisky MS**, **Rauh MJ***, Heiderscheit B, Underwood FB, Tank RT. Risk factors of medial tibial stress syndrome among high school cross country runners. 2006 Combined Sections Meeting, American Physical Therapy Association, San Diego, CA. *J Orthop Sports Phys Ther* 2006;36(1):A81. (PO)
100. **Plisky PJ**, **Rauh MJ***, Kaminski TW, Underwood F. Incidence of injury in boys and girls who are high school basketball players. 2006 Combined Sections Meeting, American Physical Therapy Association, San Diego, CA. *J Orthop Sports Phys Ther* 2006;36(1):A81. (PO)
101. **Plisky MS**, **Rauh MJ***, Heiderscheit B, Underwood FB, Tank RT. Incidence and risk of lower extremity injury among high school cross country runners. 2006 Combined Sections Meeting, American Physical Therapy Association, San Diego, CA. *J Orthop Sports Phys Ther* 2006;36(1):A81. (PO)
102. **Rauh MJ**, Steele JM, Trone DW, Macera CA. Anthropometric risk factors for training-related overuse injuries in female recruits. 2006 Combined Sections Meeting, American Physical Therapy Association, San Diego, CA. *J Orthop Sports Phys Ther* 2006;36(1):A74-75. (PL)
103. **Barrack M**, **Rauh M**, Edwards K, Barkai HS, Nichols J. Relationship between age and components of the Female Athlete Triad Syndrome in female high school runners. 2005 Southwest American College of Sports Medicine Meeting, Las Vegas, NV. (PO)
104. **Barrack M**, Nichols J, **Rauh M**, Edwards K. Menstrual irregularity and low bone mineral density in female high school runners. 2005 American Society for Bone and Mineral Research Meeting, Nashville, TN. *J Bone Miner Res* 2005;20:S271. (PO)
105. Nichols JF, **Rauh MJ**, Barkai, H, Ji M, Barrack M. The relationship between disordered eating, menstrual irregularity, low bone mass and sports injury among female high school athletes. 2005 National Athletic Trainer's Association Annual Meeting, Indianapolis, IN. *J Athl Train* 2005;40(2):S71. (PL)
106. **Rauh MJ**, Pernick Y, Nichols JF, Kern M, Ji M, Lawson M, Levy SS. Disordered eating among a multi-racial/ethnic sample of female high school athletes. 2005 American Physical Therapy Association Meeting, Boston, MA. *Phys Ther* 2005; www.ptjournal.org/abstracts: PL-RR-172-SA. (PL)
107. **Rauh MJ**, Trone DW, Macera CA, Steele JM. Pretraining and menstrual factors associated with stress fracture in recruits. 2005 American College of Sports Medicine Annual Meeting, Nashville, TN. *Med Sci Sports Exerc* 2005;37(5):S32. (PO)
108. Macera CA, Trone DW, Sandwell J, **Rauh MJ**. Running shoe type and attrition during Marine Corps basic training. 2005 American College of Sports Medicine Annual Meeting, Nashville, TN. *Med Sci Sports Exerc* 2005;37(5):S31. (PO)
109. **Rauh MJ**, Shaffer RA, Brodine SK, Trone DW, Macera CA. Predictors of stress fracture susceptibility in women recruits. 2005 Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA. *J Orthop Sports Phys Ther* 2005;35(1):A73. (PL)
110. Nichols JF, **Rauh MJ**, Barkai SH. Bone health in female athletes: Relationship to the female athlete triad. 2004 Southwest Chapter, American College of Sports Medicine Meeting, Las Vegas, NV. (PO)
111. **Rauh MJ**, Macera CA, Ji M. High school sports injury patterns among girl athletes. 2004 National Athletic Trainer's Association Annual Meeting, Baltimore, MD. *J Athl Train* 2004;39(2):S66. (PL)
112. Nichols JF, **Rauh MJ**, Lawson MJ, Pernick Y, Hoskinson MY, Link J. Prevalence of the female athlete triad syndrome among high school athletes from multiple sports. 2004 National Athletic Trainer's Association Annual Meeting, Baltimore, MD. *J Athl Train* 2004;39(2):S45. (PL)
113. **Rauh MJ**, Koepsell TD, Nichols JF, Macera CA. The relationship between amenorrhea and injury among female high school cross country runners. 2004 Annual American College of Sports Medicine Meeting, Indianapolis, IN. *Med Sci Sports Exerc* 2004;36(5):S37. (PL)

114. Nichols JF, **Rauh MJ**, Lawson M, Pernick Y, Hoskinson M. The prevalence of disordered eating among adolescent female athletes in four high school sports. 2004 Annual American College of Sports Medicine Meeting, Indianapolis, IN. *Med Sci Sports Exerc* 2004;36(5):S36. (PL)
115. Lawson M, Nichols J, Barkai HS, **Rauh M**, Levy S, Barrack M. Influence of sport on bone mineral density of female high school athletes. 2004 Annual American College of Sports Medicine Meeting, Indianapolis, IN. *Med Sci Sports Exerc* 2004;36(5):S37. (PL)
116. **Rauh MJ**, Margherita AJ, Koepsell TD, Rice SG, Rivara FP. Injuries among high school cross country runners: An epidemiologic study. 2000 Annual American College of Sports Medicine Meeting, Indianapolis, IN. *Med Sci Sports Exerc* 2000;32(5):S5. (PL)
117. Margherita A, **Rauh M**, Rice S, Zision E. Soccer injuries in high school athletes: A 15 year injury surveillance study. 1999 American Academy of Physical Medicine & Rehabilitation (61st Annual Assembly), Seattle, WA. *Arch Phys Med Rehabil* 1999; 80:S1164. (PO)
118. McGuire V, **Rauh MJ**, Mueller BA. The risk of diabetes in a subsequent pregnancy associated with prior history of gestational diabetes or macrosomic infant. Second Annual Washington State Epidemiological Data Users Conference, 1991, Seattle, WA. (PO)
119. Hovell MF, Barrington E, Hofstetter R, Sallis J, **Rauh M**, Black DR. Correlates of physical activity in overweight and not overweight persons: and assessment. 1991 American Dietetic Association Meeting. *J Am Diet Assoc* 1991;90(9):1260. (PO)

Graduate Student, *Anchor author for supervised student dissertations, †Anchor author for Project SPIRIT.

F. Invited Professional Meeting Presentations

1. Rauh MJ, Paterno MV, Shanley E, Thigpen C. Symposium. Epidemiology and Prevention of Subsequent Injury When Returning to Sport after Athletic Injury: Durability in Sport, *Submitted, 2016 Combined Sections Meeting, American Physical Therapy Association, Anaheim, CA.*
 - Rauh MJ: Epidemiology of Subsequent Injury in Youth and Professional Sports
2. Rauh MJ, Taylor-Haas J, Paterno MV, Zwolski C. Symposium. Early Sport Specialization in the Youth Athlete: Risks, Benefits, and the Latest Evidence-Based Care Recommendations, *Submitted, 2016 Combined Sections Meeting, American Physical Therapy Association, Anaheim, CA.*
 - Rauh MJ: Early Sport Specialization in the Youth Athlete: An Epidemiological Understanding of Injury Risk
3. Rauh MJ, Taylor-Haas, Lucas, Williams B. Symposium. When is it safe to return to running after an injury? *Submitted, 2016 Combined Sections Meeting, American Physical Therapy Association, Anaheim, CA.*
 - Risk Factors for initial & subsequent running injury: An epidemiological analysis of the literature
4. Heiderscheid BC, **Rauh MJ**, Williams DS. Symposium. Running Platform Hybrid Point/Counter point. *Accepted, 2016 Combined Sections Meeting, American Physical Therapy Association, Anaheim, CA.*
5. **Rauh MJ**, Warren M. Conversational Forum-Student Affairs. Setting yourself apart – What are PT Programs looking for? 2015 American College Sports Medicine Meeting, San Diego, CA.
6. Taylor MK, Rauh MJ. Colloquium: Optimizing readiness and performance in military operations. *Accepted, 2015 American College Sports Medicine Meeting, San Diego, CA.*
7. Shrier I, **Rauh MJ**, Verhagen E, Stovitz S, Hewett TE. Symposium: Controversies and challenges in clinical and basic science sport injury research. *Accepted, 2015 American College Sports Medicine Meeting, San Diego, CA.*
8. **Rauh MJ**, Lucas KC, Williams DS, Taylor-Haas-JA. Preconference Course: Males are from Mars, females are from Venus: The effect of gender on running biomechanics, neuromuscular control, injury incidence, and rehabilitation. 2015 Combined Sections Meeting, American Physical Therapy Association, Indianapolis, IN.
 - **Rauh MJ**: Epidemiology of the effect of gender on injury incidence: pediatric injuries, adolescent injuries, adult injuries & the Female Athlete Triad.
9. **Rauh MJ**. Demystifying the Female athlete Triad: Identifying and finding balance for healthy bone and safe sports participation in adolescent athletes. 2014 Annual California Physical Therapy Association Meeting, Oakland, CA.
10. **Rauh MJ**, Hickey KC, Reinking MF, Taylor-Haas-JA. Symposium: Pediatric, high school & collegiate running injuries: Evidence-based evaluation, differential diagnosis, and treatment. 2014 Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV.
 - **Rauh MJ**: Epidemiology of running-related injuries in pediatric and adolescent running populations.

11. **Rauh MJ**, Paterno MV, Shanley E. Symposium: Epidemiology and prevention of subsequent injury when returning to sport after athletic injury: Durability in sport. 2014 Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV.
 - **Rauh MJ**: *Epidemiology of subsequent injury in youth and professional sports.*
 - **Rauh MJ**: *Risk factors and prevention of subsequent overuse injury in running populations.*
12. **Rauh MJ**, Ferkovic C, Paterno MV, Shanley E. Symposium: The adolescent female athlete. 2013 Combined Sections Meeting, American Physical Therapy Association, San Diego, CA.
 - **Rauh MJ**: *The injury problem in female youth sports.*
13. **Rauh MJ**, Williams DS, Brown K, Heiderscheid B, Chumanov E, Thein-Nissenbaum J, Brody LA. Preconference Course: The female runner throughout the lifespan. 2013 Combined Sections Meeting, American Physical Therapy Association, San Diego, CA.
 - **Rauh MJ**: *The adolescent female runner.*
14. **Rauh MJ** [**Moderator/Discussant**], Shrier I; Verhagen E. Colloquium: Solving challenges in subsequent injury analyses and interpretations. 2012 American College of Sports Medicine Meeting, San Francisco, CA.
 - Rauh MJ. Introduction to the subsequent injury problem.
15. **Rauh MJ**, Butler RJ, Davies G. Symposium. The anterior cruciate ligament enigma: A 2012 update on prevention, management, and return to sport, Part 1. 2012 Combined Sections Meeting, American Physical Therapy Association, Chicago, IL.
 - **Rauh MJ**: *Epidemiology of ACL injury in the active individual.*
16. Meira EP (Moderator), **Rauh MJ**, Davis IM, Bolgla L, Paterno MV, Reiman M. Symposium: Selected lower extremity injuries and the female athlete: The role of the hip and other epidemiological, screening and treatment issues. 2010 Combined Sections Meeting, American Physical Therapy Association, San Diego, CA.
 - **Rauh MJ**: *Epidemiology of lower extremity injuries in female athletes – are female athletes getting a bad rap?*
 - **Rauh MJ**: *The relationship between the hip and stress reaction injury occurrence in female athletes - identification and rehabilitation issues.*
17. Nichols JF, **Rauh MJ**, Beals KA. Concurrent Symposia: The role of energy availability in bone health and sports injury. 2009 Southwest Chapter American College of Sports Medicine Annual Meeting, San Diego, CA.
 - **Rauh MJ**: *Low EA, bone health, and injury.*
18. Nichols JF (Moderator), Nattiv A, Barrack MT, **Rauh MJ**. Symposium: Female athlete triad revisited. 2008 Southwest Chapter American College of Sports Medicine Annual Meeting, San Diego, CA.
 - **Rauh MJ**: *Relationship between musculoskeletal injury and disordered eating, menstrual dysfunction, low bone mass in female athlete and military populations.*
19. **Rauh MJ** [**Moderator/Discussant**], Hoogenboom B, Thein-Nissenbaum JM. **Rauh MJ**, Bonci L, Paterno MV. Preconference course: Building the female athlete: Issues for health, performance and wellness. 2008 Combined Sections Meeting, American Physical Therapy Association, Nashville, TN.
 - **Rauh MJ**: *Bone and stress fracture issues in the female athlete.*
20. **Rauh MJ** [**Moderator/Discussant**], Hoogenboom B, Thein-Nissenbaum J, **Rauh MJ**, Schuemann T, Pantano K. Symposium: Female athlete triad – Issues and prevention strategies. 2007 Combined Sections Meeting, American Physical Therapy Association, Boston, MA.
 - **Rauh MJ**: *Bone and stress fracture issues in the female athlete.*
21. Hootman JM, **Rauh MJ**, Nemeth BA. Mini-Symposium: Youth sports injuries – epidemiology, prevention strategies and clinical perspectives. 2003 Annual American College of Sports Medicine Meeting, San Francisco, CA.
 - **Rauh MJ**: *Epidemiological methods for studying athletic injury patterns in high school sports.*
22. **Rauh MJ** [**Moderator/Discussant**]: **Rauh MJ**, Gilchrist JR, Queale WS. Mini-Symposium: Study designs and methodology in sports research. 2002 Annual American College of Sports Medicine Meeting, St. Louis, MO.
 - **Rauh MJ**: *Prospective cohort (observational) designs.*
23. **Rauh MJ** [**Moderator/Discussant**], Powell JW, Mueller FO, **Rauh MJ**, Marshall SW, Queale WS. Major Symposium: Sports injury epidemiology among high school athletes: Past, present, and future perspectives. 2001 Annual American College of Sports Medicine Meeting, Baltimore, MD.
 - **Rauh MJ**: *Injury studies of the high school female athlete: Vast horizons for sports injury epidemiology.*

24. Queale WS, **Rauh MJ**, Marshall SW, Gilchrist J. Conversational Forum: Developing standard definitions for sports injury surveillance/epidemiology. 2001 Annual American College of Sports Medicine Meeting, Baltimore, MD.

G. Other Invited Talks

1. Panel member. Dream Career Day. CHHS, SDSU; April 17, 2015.

H. Scholarly Awards and Honors

- 2014 Faculty Research Publication Award, California Physical Therapy Association.
*Paterno MV, **Rauh MJ**,* Schmitt LC, Ford KR, Hewett TE. Incidence of contralateral and ipsilateral anterior cruciate ligament (ACL) injury after ACL reconstruction and return to sport.*
- 2014 Finalist, Excellence in Research Award, Sports Physical Therapy Section – American Physical Therapy Association.
***Rauh MJ**, Rodriguez I, Paterno MV, Beachy G. Initial and secondary rates of anterior cruciate ligament injury in a high school population.*
- 2013 Faculty Research Publication Award, California Physical Therapy Association.
***Rauh MJ**, Aralis HJ, Melcer T, Macera CA, Sessoms P, Bartlett J, Galarneau MR. Effect of TBI among US servicemembers with traumatic amputation.*
- 2013 Excellence in Research Award, Sports Physical Therapy Section – American Physical Therapy Association.
*Shanley E, Kissenberth MJ, Thigpen CA, Bailey L, Hawkins RJ, Michener LA, **Rauh MJ***. Preseason ROM screening as a predictor of injury among youth, adolescent and adult baseball pitchers.*
- 2010 2010 NCAA Research Award, American Orthopaedic Society for Sports Medicine.
*Paterno MV, Schmitt LC, Ford KR, **Rauh MJ**, Myer GD, Huang B, Hewett TE. Biomechanical measures during landing and postural stability predict second anterior cruciate ligament injury after ACL reconstruction and return to sport.*
- 2010 Excellence in Research Award, Sports Physical Therapy Section – American Physical Therapy Association.
***Rauh MJ**, Nichols JF, Barrack MT. Prevalence and relationships between disordered eating, menstrual dysfunction and musculoskeletal injury among competitive female interscholastic runners.*
- 2009 Student Research Podium Presentation Award, National Strength and Conditioning Association.
*Myer GD, Ford KR, Barber-Foss K, Goodman A, Harrison A, **Rauh MJ**, Divine JG, Hewett TE. A pilot study to determine the incidence and potential pathomechanics of patellofemoral pain in female athletes.*
- 2008 Finalist, Excellence in Research Award, Journal of Orthopaedic Sports Physical Therapy.
***Rauh MJ**, Koepsell TD, Rivara FP, Rice SG, Margherita AJ. Quadriceps angle and risk of injury among high school cross country runners.*
- 2007 Finalist, Excellence in Research Award, Journal of Orthopaedic Sports Physical Therapy.
*Plisky PJ, **Rauh MJ**, Kaminski TW, Underwood FB. Star Excursion Balance Test as a predictor of lower extremity injury in boys and girls high school basketball players.*
- 2007 Fellowship, American College of Sports Medicine
- 1996 Post-professional Doctoral Scholarship, American Physical Therapy Association
- 1994 UW/Elks General Physical Therapy Scholarship, University of Washington
- 1993 UW/Elks General Physical Therapy Scholarship, University of Washington
- 1990 Outstanding Public Health Graduate Student Award (Health Promotion), Graduate School of Public Health, San Diego State University
- 1990 Vice-presidential "Quest for the Best" Student Service Award Nominee, San Diego State University
- Top 10 student leaders, San Diego State University, 1990
- 1983-85 Bob Davis Memorial Scholarships, University of Nevada-Reno

Graduate Student, *Anchor author for supervised student dissertations

I. Funded Research Grants

Current Support

Source: Military Operation Medicine Joint Program Committee 5 (USAMRMC MIPR6LYLR00347)
Title: *Sex differences in allostatic load*
Role: Co-Investigator; (Taylor MK, Principal Investigator, NHRC)
Dates: 10/13-10/15.
Amount: \$400,000 (over 2 years)
Description: The purposes of this study are to 1) quantify sex differences in allostatic load (AL) profiles in healthy military members, 2) examine relationships between allostatic load and acute physical and psychosocial stress reactivity in both sexes, 3) assess the role of cardiorespiratory fitness in allostatic load, physical stress reactivity, and psychosocial stress reactivity in both sexes, and 4) establish relationships between AL and mental health status in both sexes.

Pending Support

Source: Canadian Institutes of Health of Health Research
Title: *Impact of Recurrent injury*
Role: Co-Investigator; (Steele, R, Principal Investigator, McGill University, Canada)
Dates: 01/15-01/17.
Amount: \$335,000 (over 3 years)
Description: The purpose of this grant is to develop new statistical tools to address three important research questions: 1) estimation of causal effects from recurrent injury data incorporating continuous healing time; 2) implementation of competing-risk models to model the effect of injuries to different body area; and 3) correction for retrospectively measured injury history in prospectively collected injury data. These methods will be developed in close collaboration with researchers from four leading Canadian athletic organizations: the Cirque de Soleil, the Insitut National du Sport du Québec, the Canadian Olympic Committee, and the Canadian Athletic Monitoring Program as well as several other leading sports epidemiological injury researchers worldwide. The collaboration with, heterogeneity of the data sources of and the problems of interest for the four partner organizations will focus the development of statistical methods for complex real-life data sources, making our results generalizable to a community beyond just the statistical sciences. The reputation of the organizations involved will dramatically increase the impact of the study, as these organizations are amongst the leaders in injury research and injury prevention in Canada and worldwide.

Past Support

Source: Center for Health and Nutrition Research, California, Davis
Title: *Influence of energy and calcium availability on bone mineral content and turnover in adolescent runners.*
Role: Co-Investigator; (Nichols JF, Principal Investigator, ENS, SDSU)
Dates: 06/01/08-11/30/09
Amount: \$60,000
Description: The purpose of this study is to 1) validate a 7-day measure of energy and calcium/vitamin D intake using a PDA compared to the Actiheart device (acclerometry and heart rate) for a field measure of exercise energy expenditure, 2) determine calcium loss in sweat over time, and 3) measure biomarkers for bone turnover and BMD in high school female cross-country runners.

Source: SDSU University Grant Proposals, San Diego State University
Title: *Energy availability and bone turnover in female high school athletes.*
Role: Co-PI; (Nichols JF, Principal Investigator, ENS, SDSU)
Dates: 01/08-01/09
Amount: \$9,700
Description: The purpose of this study is to measure energy expenditure using a device that integrates heart rate and movement data, and to assess energy intake and biomarkers of bone turnover (formation and loss) among female high school runners.

Source: Marine Corps Grant Funding Program (USAMRMC MIPR6LYLR00347)
Title: *Physical training footwear and musculoskeletal injuries*
Role: Co-Investigator; (Shaffer RA, Principal Investigator, NHRC)
Dates: 09/06-09/08.
Amount: \$604,000
Description: The primary purpose of this current study is to determine the fitting system for assigning training footwear to incoming recruits and its relationship to musculoskeletal injuries. A secondary purpose of the study is to examine the relationship between stress fracture injury and potential risk factors such as fitness level, attitudes toward fitness, lower extremity anatomic alignment, and menstrual health.

Source: Southern California Industry of Food Technologists
Title: *Use of PDA technology in dietary assessment and sports medicine research in female high school athletes.*
Role: Co-PI; (Nichols JF, Principal Investigator; ENS, SDSU)
Dates: 09/06-09/07
Amount: \$5,165
Description: The purpose of this project was to determine the feasibility and acceptability of Personal Data Assistant (PDA) technology to assess dietary intake in female high school athletes. A second aim was to determine the influence of diet (total energy, macro and micronutrients) on the relationships among the three components of the Female Athlete Triad.

Source: Marine Corps Grant Funding Program (USAMRMC MIPR No. 95MM5524)
Title: *Efficacy of SMART (Sports Medicine and Reconditioning Team) Centers: Evidence-based management/Prevention system of Marine Corps musculoskeletal-related injuries*
Role: Co-Investigator; (Macera CA & Trone DW, Principal Investigators, NHRC)
Dates: 09/04-09/06
Amount: \$235,500
Description: The purpose of this study was to evaluate the efficacy of SMART Centers as compared to traditional Marine Corps/Navy health care delivery for orthopedic-type injuries.

Source: General NATA Research & Education Foundation Grant Funding Program, National Athletic Trainers Association [902GG005]
Title: *An epidemiological investigation of the female athlete triad in high school athletes*
Role: Co-Investigator (Nichols JF, Principal Investigator, ENS, SDSU)
Dates: 01/03-12/03
Amount: \$43,590
Description: The purpose of this prospective study is to investigate and compare the prevalence of components of the female athlete triad syndrome (disordered eating, menstrual dysfunction, low bone mineral density (BMD)) and their relationship to sports-related injuries among female high school athletes in San Diego County, CA.

Source: General NATA Research & Education Foundation Grant Funding Program, National Athletic Trainers Association [302GGP011]
Title: *High school sports injury patterns among girls: Trends and risk factors*
Role: Principal Investigator (RMUoHP/Epidemiology –SDSU)
Dates: 07/02-06/03
Amount: \$17,603
Description: The purpose of this study was to examine the effects of subsequent injuries among a cohort of over 25,000 girls participating in high school sports included in the NATA National High School Injury Surveillance database.

Source: Post-professional Doctoral Award, Foundation for Physical Therapy American Physical Therapy Association
Title: *Gender differences in the incidence and causes of sports injuries among high school Athletes*
Role: Principal Investigator (University of Washington)

Dates: 09/95-12/96

Amount: \$3,500

Description: The purposes of this study was to 1) retrospectively determine the incidence and descriptive epidemiology of sport injuries among an estimated 75,000 male and female athletes in 18 Seattle high schools between 1980-1995, and 2) to prospectively determine behavioral, anatomic and other extrinsic risk factors for lower extremity injuries in over 400 high school cross-country runners.

J. Other Funding

Current

Source: IRA. College of Health and Human Services/Associated Students, SDSU

Role: Director for DPTSA (author of funding)

Dates: 09/14-05/15

Amount: \$3,328

Description: The purpose of this proposal was to fund 5 DPT students to the 2015 California APTA Student Conclave for the DPT Academic Bowl.

Pending

Source: IRA. College of Health and Human Services/Associated Students, SDSU

Role: Director for DPTSA (author of funding)

Dates: 09/15-05/16

Amount: \$2,950

Description: The purpose of this proposal is to fund 5 DPT students to the 2016 California APTA Student Conclave for the DPT Academic Bowl, and send one student to CAPTA Legislative Board meeting.

Source: SDSU Foundation

Role: Faculty Mentor

Dates: 05/15-08/15

Amount: \$2,950

Description: The purpose of this proposal is to fund an undergraduate student for research experience for project to be presented at SDSU SRS and other peer-review entity.

K. Peer-Reviewer Activities

Editorial Board

2008-Pres Editorial Board Member, *Athletic Training and Sports Health Care: The Journal for the Practicing Clinician**

Reviewer for following Scientific Refereed Journals

2014-Pres *Clinical Orthopaedic Related Research**

2013-Pres *Journal of Strength and Conditioning Research**

2010-Pres *Journal of Rehabilitation Research & Development*

2009-Pres *Athletic Training and Sports Health Care: The Journal for the Practicing Clinician**

2008-Pres *Sports Medicine, Arthroscopy, Rehabilitation, Therapy & Technology*

2008-Pres *Sports Health*

2006-Pres *Medicine and Science for Sports and Exercise*

2006-Pres *Clinical Journal of Sports Medicine*

2006-Pres *Journal of Orthopaedic & Sports Physical Therapy**

2006-Pres *International Sports Medicine Journal*

2005-Pres *Archives & Pediatric and Adolescent Medicine*

2004-Pres *Journal of Athletic Training**

2003-Pres *Journal of Science and Medicine in Sport*

*Actively reviewed manuscript(s) since 2011.

Grant Funding Reviewer

- 2006 Reviewer, Orthopaedic Section, American Physical Therapy Association
 2002-2005 Member, Research Committee, National Athletic Trainers Association Research & Education Foundation
 2002-Pres Reviewer (external), National Athletic Trainers Association Research & Education Foundation

L. Professional Education Activities

- 2012 **Professional Study Course** (developed for continuing education credit for physical therapists) **Rauh MJ**, Heiderscheid BC (eds). *Evaluation, Treatment, and Prevention of Running Injuries*. Sports Physical Therapy Section, American Physical Therapy Association (July, 2012).
 i. **Rauh MJ**: *Chapter One: Epidemiology of Running Injuries*.

M. Professional Association Affiliations/Service

- 2010-Pres Member, Female Athlete Triad Coalition
 2003-Pres Member, Southwest Chapter, American College of Sports Medicine
 2001-Pres Member, California Physical Therapy Association
 • Research committee Special Interest Group [CRSIG](2008-2011)
 2001-Pres Member, San Diego District Chapter, California Physical Therapy Association
 2000-Pres Member, American College of Sports Medicine
 • Biomechanics Interest Group (2006-present)
 • Bone IG (Interest Group) Bone & Osteoporosis Network Exchange (2006-present)
 • Epidemiology Interest Group (2006-2012)
 1992-Pres Member, American Physical Therapy Association
 • Section on Education (2011-present)
 • Program Growth Focus Group (2013)
 • Academic Faculty Special Interest Group (2012)
 • Section on Research (1992-present)
 • Biomechanics Special Interest Group (2010-present)
 • Section on Sports Physical Therapy (1992-present)
 • Teammates Leader (2010-present)
 • Running Special Interest Group (2010-present)
 • Shoulder Special Interest Group (2006-2012)
 • Female Athlete Special Interest Group (2005-present)
 • Knee Special Interest Group (2004-2012)
 1992-2000 Member, Washington State Physical Therapy Association (WSPTA)

N. Professional Association Meeting Attendance

- 2013-Pres Educational Leadership Conference, American Physical Therapy Association
 2006-2010 Southwest Chapter, American College of Sports Medicine Meeting
 2003, 2008, 2011-14 California Physical Therapy Association Annual Meeting
 2000-2013, 2015 American College of Sports Medicine Annual Meeting
 2000-2014 San Diego District Physical Therapy Association Meetings
 1998, 2002-2015 Combined Sections Meeting, American Physical Therapy Association
 1997, 2002, 2003, 2005 American Physical Therapy Association Annual Meeting
 1994-2000 Washington State Physical Therapy Association Meeting
 1989 American Public Health Association Meeting

O. Technical Reports (Non-refereed)

- EODCM Stump, LCDR Haywood, LT Mendenhall, CAPT Robinson, CMDCM Beville, EODCM Leppell, EODCS Decutiis, EODCS Anderson, LT Dewey, LTJG McElmoyl, Nardulli P, Padilla GA, Schmied EA, Larson GE, Hernandez LM, Stone M, Carpenter J, Dominguez J, Sessoms P, Glickman G, Beckerley SE, Kraft HS, Harris E, **Rauh MJ**, Taylor MK. EOD warrior-athlete working group: Recommendations for an evidence-based, forcewide EOD warrior-athlete program, (EOD, San Diego), June, 2014.
- Macera CA, **Rauh MJ**, Trone DW, Reis JP. Activity-related injuries among women in the military, civilian and competitive settings: Are there common risk factors? (BUMED Query, MCRD, San Diego) Nov, 2006.

3. Trone D, Macera C, **Rauh M**, Larson G, Ryan M. Subanalysis exploring the association between incident stress fractures and Depo-Provera use among U.S. Marine Corps Recruits (BUMED Query, MCRD, San Diego) Feb, 2005.

VIII. SERVICE FOR THE UNIVERSITY AND THE COMMUNITY

A. Service for University

1. San Diego State University

a. Committee Service

	<u>Date(s)</u>
1. Member, Search Committee for ENS School Director	2015-Present
2. Member, Review Committee for CHHS Assistant Dean	2015-Present
3. Member, Review Committee for CHHS Dean	2015-Present
4. Member, University Senate	2013-Present
• Committee on Committees & Elections (CHHS rep)	2014-2015
• Library Committee (CHHS rep)	2015-Present
5. Member, Search Committee for Clinical Exercise Physiology faculty, School of Exercise & Nutritional Sciences	2013-14
6. CHHS Research Committee	2013-Present
7. ENS Assessment Committee	2013-Present
8. Chair, Search Committee for Doctoral of Physical Therapy Faculty	2013-Present
9. Advisor, Doctor of Physical Therapy Student Association	2012-Present
10. Chair, Search Committee for Doctor of Physical Therapy faculty	2012-13
11. Chair, Doctor of Physical Therapy Admissions Committee	2012-13
12. Chair, Search Committee for Doctoral of Physical Therapy faculty	2011-12
13. Judge, Student Research Symposium	2009

2. Faculty Advisor

- a. 2014-17: Shelby Colwell, Wendy Dorr, Rebecca Durant, Kelsey Fitzgerald, Melissa Goff, Brianne Hatherill
- b. 2013-16: Elizabeth Delozier, Jillian Gerbracht, Ryan Gere, Kaycee Gunion, Kimberly Harter, Justin Hoblet
- c. 2012-15: Jesse Ortiz, Brittany Pogue, Imelda Rodriguez, Eva Sahatdjian, Frank St. Tomas, Marcella Scholl, Julianne Stewart, Leslie Thompson, Quang Tran, Stephen Westwood, Paula Whiting, Kara Wickeraad

3. Mesa College

a. Council Service

1. Member, Advisory Council for Physical Therapy Assistant Program 2013-14

4. Rocky Mountain University of Health Professions

a. Committee Service

1. Strategic Planning Committee	2011
2. PhD Reaccreditation Task Force Committee	2011
3. DSc to PhD Bridge Committee	2010
4. PhD Task Force Committee	2008
5. Chairperson, Annual Evidence Based Practice Symposium	2008-2011
6. Hearing and Resolutions Committee	2006-2009
7. Chairperson, Research Advisory Council	2001-2011
8. Curriculum Committee	2001-2011
9. Accreditation Task Force Committee	2001-2011
10. Academic Leadership Council	2001-2011
11. University Council	2001-2011
12. Chairperson, Institutional Review Board Committee	2001-2006
13. Admissions Committee	2001-2005

B. Service for Professional Societies

- 2013-Pres Awards Committee, Biomechanics Special Interest Group, American Physical Therapy

- Association
- 2011-Pres Member, Algorithm Study Team, Female Athlete Triad Coalition
- 2009-2010 Secretary, Research Special Interest Group, California Physical Therapy Association
- 2009-2010 Nominating Committee, Biomechanics Special Interest Group, American Physical Therapy Association
- 2009- Pres Member, Office of Museum, History & Archives Committee, American College of Sports Medicine
- 2008- 2011 Member, SHI - Youth Sports and Health Committee, American College of Sports Medicine
- 2007- 2013 Member, SHI - Women's Sport, Health and Physical Activity Committee, American College of Sports Medicine
- 2005-2012 Co-Founder/Chairperson, Female Athlete Special Interest Group, American Physical Therapy Association
- 1999-2000 Member, Outcomes research Task Force, WSPTA
- 1992-2000 Chairperson, Research Committee, Washington State Physical Therapy Association

C. Service for the Community

1. **Presentations**

- a. Prevalence of the female athlete triad and its relationship to injury in girls' high school sports: Findings from Project SPIRIT (Sports Injury Research In Teens). Harborview Injury Prevention and Research Center, Seattle, 05/2009.
- b. Are all female athletes as healthy as they appear? The female athlete triad syndrome & its relationship to injury. San Diego Chapter, American Physical Therapy Association, 05/2009.
- c. Project SPIRIT: Sports Injury Research in Teens. Bishops High School, 11/2004.

2. **Other Community Service**

- a. Medical Team, Mt. Carmel Cross-country Invitational, San Diego, CA, 09/20/14.
- b. Medical team, Footlocker National High School Cross-country Championships, San Diego, CA, 12/2013
- c. Pre-participation physicals for Sweetwater school district, *Southwest Sports Wellness Foundation*, Chula Vista, CA, 07/2013
- d. FPTO Grad Panel Event, San Diego State University, April, 2013
- e. Healthcare Pathway and Engineering Academy Career Fair, Patrick Henry High School, 03/2013
- f. SEARCH's Event: *Path to Physical Therapy*, University of California, San Diego, 02/2013
- g. *Move Forward* exhibit fair, San Diego Chapter, APTA San Diego, CA, 10/2011
- h. Prevention of falls in the elderly workshop, San Diego Chapter, APTA San Diego, CA, 10/00
- i. Coach, Pop Warner football, Reno, NV, 1981
- j. Coach, Track & Field, Archie Clayton Middle School, Reno, NV, 1980-82

IX. **CONSULTATION**

1. CSMiSolutions. Presently consulting on large sports injury surveillance and electronic medical records company for injury surveillance studies in collegiate, high school and recreational athletes, 2010.
2. American Speciality Health, San Diego, CA. Reviewed effectiveness of allied health treatment methods, 2006.
3. Vencor, Inc., Seattle, WA. Consultation and analyses of a study investigating the reliability and validity of the Functional Independence Measure (FIM) in a subacute geriatric population, 1994.

X. **ACHIEVEMENTS**

- 1990 Master's Thesis: The reliability and validity of self-reported physical activity in an adult Latino population, San Diego State University ©1990.
- 1989-1990 President, Graduate School of Public Health Student Association, San Diego State University.
- 1989-1990 Member, College of Health & Human Services Student Association, San Diego State University.

XI. OTHER

In Media

1. Study Examines Injury Rates Among Middle School Athletes. Coach and Athletic Director via Education Week.org. <http://www.coachad.com/pages/Breaking-News---Study-Examines-Injury-Rates-Among-Middle-School-Athletes.php>.
2. National Athletic Trainers' Association Advance Releases New Findings at 65th Annual Convention: Research Sheds Light on Need for Increased Physical and Mental Health Practices – “Middle School Injuries: A 2—year (1988-2008) Multi-sport Evaluation” <http://natajournals.org/doi/pdf/10.4085/1062-6050--49.4.0106/26/14>.
3. Women more prone to sports injuries. *RadioMD*. <http://radiomd.com/show/train-your-body/item/13083-women-more-prone-to-sports-injuries>, 07/23/13.
4. Female Athlete Triad: A serious problem. *RadioMD*. <http://radiomd.com/show/train-your-body/item/13084-the-female-athlete-triad-a-serious-health-problem>, 07/23/13.
5. Physiologic and behavioral indicators of an energy deficiency in female adolescent runners with elevated bone turnover *MDLinx.com*, <http://www.mdlinx.com/ortholinx/news-article.cfm/3217950>, 07/08/10.
6. Injuries among female marine corps. <http://womenmarines.wordpress.com/2010/01/25/injuries-among-female-marine-corps-recruits-eorthopod/>, 01/25/10.
7. ACSM 2009: Physicians lack knowledge of the female athlete triad, *Medscape Medical News*, <http://www.medscape.com/viewarticle/703651>, 06/01/09.
8. Female Athlete Triad - PTs should become familiar with nutritional research, *Advance for Physical Therapist and PT assistants*. <http://physical-therapy.advanceweb.com/editorial/content/editorial.aspx?cc=199052>, 05/05/09.
9. Metabolic Math: To prevent injury, girls' calorie intake should offset output. *The Doctor Will See You Now.com*: <http://www.thedoctorwillseeyounow.com/news/nutrition/0331/triadcalories.shtml>, 03/31/09.
10. Strict dieting may harm young runners' bone health; *Reuters Health*, www.reutershealth.com 01/24/08.
11. The culture of cross country, *Antelope Valley Press*, 11/22/07.
12. Fitness, conditioning may reduce leg injuries: Menstrual irregularities a risk factor in stress fractures, *Medical News Today*, www.medicalnews.com, 09/17/06.
13. Fitness, conditioning may reduce leg injuries: Menstrual irregularities a risk factor in stress fractures, *American College of Sports Medicine*, www.acsm.org. 09/14/06.
14. Triad risk starts early. *Training & Conditioning* July/August 2006, http://www.training-conditioning.com/2007/03/triad_risk_starts_early.html.
15. Sports-loving girls may sacrifice long-term health for performance, *Medical Research News for Parents*, http://teenshealth.org/research/sports_health.html; March, 2006.
16. San Diego State study finds high rates of unhealthy symptoms in teenage female athletes; *San Diego State University*, 02/27/06.
17. Interview, “Teens at risk;” *FOX news* (XETV, Channel 6), 02/23/06.
18. Triad athlete syndrome may affect teens too; *Reuters Health*, www.reutershealth.com, 02/13/06.
19. Injuries common among cross country runners; *PT Bulletin*, www.apta.com, 02/10/06.
20. Injuries common among cross country runners; *Reuters Health*, www.reutershealth.com, 01/19/06.
21. Dangerous Game: Young female athletes at risk; *San Diego State Foundation Annual Report*, 2003.