

CURRICULUM VITAE
University of Pittsburgh
School of Medicine

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EDUCATION AND TRAINING

May, 1991 **University of Southern Maine** **B.A.** Psychology and Biology
Portland, ME. (Summa Cum Laude)

May, 1995 **Michigan State University** **M.A.** Clinical Psychology/
East Lansing, MI. Clinical Neuropsychology

August, 1998 **Michigan State University** **Ph.D.** Clinical Psychology/
East Lansing, MI. Clinical Neuropsychology

July, 1997- June, 1998 (Internship/Residency)
University of Florida/Shands Hospital Clinical Psychology
Department of Clinical and Health Psychology Neuropsychology
Gainesville, FL. (APA Full Accreditation)

September, 1998-August, 2000 (Fellowship)
Henry Ford Health System Clinical Neuropsychology
Dept. of Behavioral Health
Division of Neuropsychology
Detroit, MI.

PROFESSIONAL APPOINTMENTS and POSITIONS

September, 2000-Present	UPMC Sports Medicine Concussion Program Assistant Director
October 1, 2003-Present	University of Pittsburgh Medical Center Assistant Professor of Orthopaedic Surgery (Primary Appointment) UPMC Center for Sports Medicine Department of Orthopaedic Surgery
February 2, 2009-Present	University of Pittsburgh Medical Center Assistant Professor of Neurological Surgery (Secondary Appointment)
September, 2000-September 30, 2003	University of Pittsburgh Medical Center Instructor of Orthopaedic Surgery UPMC Center for Sports Medicine Department of Orthopaedic Surgery

CURRENT ACADEMIC/CONSULTING POSITIONS (*Select List*)

2007-Present	Clinical Consultant USA Lacrosse
2007-Present	Clinical Consultant USA Rugby
2006-Present	Centers for Disease Control and Prevention Invited Expert-Concussion Tool Kit for Physicians
2005-Present	Editorial Advisory Board Brain Injury Professional
2004-Present	Editorial Board Journal of Athletic Training
2003-Present:	Scientific Consultant National Federation of High Schools
2001-Present:	Pittsburgh Steelers Football Club Medical Staff

- 2005-Present** National Football League-Europe
Advisor/Consultant
- 2001-Present:** Major League Baseball
Consultant
- 2000-Present:** Major League Baseball Umpires
Advisor/Consultant

CERTIFICATION and LICENSURE

State of Pennsylvania Licensed Psychologist (#ps009233L)

MEMBERSHIP IN PROFESSIONAL SOCIETIES

International Neuropsychological Association	Sept 1999-Present
National Academy of Neuropsychology	Sept 1999-Present
North American Brain Injury Society	Sept 2005-Present

HONORS AND AWARDS

- 2009** Listed in Marquis "Who's Who in America"-Scientist division
- 2009** Received Great Lakes Athletic Trainer's Association Honorary Membership Award
- 2007** National Academy of Neuropsychology-Annual Butters Award-Best Manuscript. "Sensitivity and Specificity of the ImPACT Test Battery in Assessing Sports Related Concussion."
- 2005** Annual Innovations in Treatment Award-North American Brain Injury Society
- 2001** Selected by Pittsburgh Magazine as "Top 40 under 40" in Pittsburgh Region
- 1991** Graduated Summa Cum Laude, University of Southern Maine
- 1989** Participated in NCAA Baseball College World Series for the University of Southern Maine, placing fourth in the nation.
- 1989** Presented New England Pepsi-Cola Scholar/Athlete Award
- 1988** Presented New England Pepsi-Cola Scholar/Athlete Award

PUBLICATIONS

REFEREED ARTICLES

Lau B, Lovell MR, **Collins MW**, Pardini J. Neurocognitive and symptom predictors of recovery in high school athletes following sports concussion. *Clinical Journal of Sport Medicine*, In Press.

Reddy CC, **Collins MW**. Sports concussion: Management and predictors of outcome. *Current Sports Medicine Reports* 2009 Jan-Feb;8(1):10-15.

Colvin A, Mullen J, Lovell MR, West R, **Collins MW**, Groh M. The role of of concussion history and gender in recovery from soccer. *American Journal of Sports Medicine*, In Press.

Peterson SE, Stull MJ, **Collins MW**, Wang H. Neurocognitive function of Emergency Department Patients with Mild Traumatic Brain Injury. *Annals of Emergency Medicine*, In Press.

Nance M, Wiebe D, **Collins MW**. Neurocognitive evaluation of Mild Traumatic Brain Injury in a hospitalized pediatric population. *Annals of Surgery*, In Press.

Gioia G, **Collins MW**, Isquith P. Improving identification and diagnosis of mild traumatic brain injury with evidence: Psychometric support for the Acute Concussion Evaluation. *Journal of Head Trauma Rehabilitation* 2008;23(4):230-242.

Camiolo C, **Collins MW**, Gioia G. Adolescent Sports Concussion. *Physical Medicine and Rehabilitation Clinics of North America* 2008;19:247-269.

Collins MW. In the midst of a paradigm shift: Data based management of sports related concussion. Guest Editor: *Brain Injury Professional*: Sports Related Concussion. May, 2008.

Majerske CW, Mihalik JP, Dianxu R, **Collins MW**, Camiolo-Reddy C, Lovell MR, Wagner AW. Concussion in sports: Concussion in Sports: Postconcussive activity levels, symptoms, and neurocognitive performance. *Journal of Athletic Training* 2008,43(3):265-274.

Fazio VC, Lovell MR, Pardini J, **Collins MW**. The relation between post-concussion symptoms and neurocognitive performance in concussed athletes. *Neurorehabilitation* 2007,22;1-10.

Lovell MR, Pardini J, , Welling J. **Collins MW**, Bakal J, Lazar N, Roush R, Eddy WF, Becker J. Functional brain abnormalities are related to clinical recovery and time to return to play in athletes. *Neurosurgery*. 2007. Aug;61(2):352-59.

Collins MW, Lovell MR, Iverson GL, Ide T, Maroon J. Examining concussion rates and return to play in high school football players wearing newer helmet technology: A three year

- prospective cohort study. Neurosurgery, 2006:58(2);275-283.
- Mihalik JP, McCaffrey MA, Rivera EM, Pardini JE, Guskiewicz KM, **Collins MW**, Lovell MR. Effectiveness of mouthguards in reducing neurocognitive deficits following sports-related concussion. Dental Traumatology, 2007:23(4), 262-3. (Response to the Letter to the Editor).
- Lovell MR, Iverson GL, **Collins MW**, Podell K, Johnston KM, Pardini D, Pardini J, Norwig J, Maroon J. Measurement of symptoms following sports-related concussion: Reliability and normative data for the Post-Concussion Symptom Scale. Applied Neuropsychology, 2006:13(3), 166-74.
- Lovell MR, **Collins MW**, Pardini J, Parodi A, Yates T. Management of cerebral concussion in the war fighter: Lessons learned from sports medicine. Operative Techniques in Sports Medicine, 2006.13;212-221.
- Van Kampen D, Lovell MR, **Collins MW**, Pardini J, Fu F. The “value added” of neurocognitive testing following sports-related concussion. American Journal of Sports Medicine, 2006:34(10);1630-35..
- Collins MW**, Iverson GL, Gaetz M, Lovell MR. Sports-related concussion. In: Zasler ND, Katz HT, Zafonte RD, editors. Neurorehabilitation of traumatic brain injury 2nd edition. New York: Demos Medical Publishing; Pages 407-423.
- Iverson GL, Brooks B, **Collins MW**, Lovell MR. Tracking neuropsychological recovery following concussion in sports. Brain Injury, 2006:20(3):245-52.
- Mihalik JP, McCaffrey MA, Rivera ER, Pardini JE, Guskiewicz K, **Collins MW**, Lovell MR. Effectiveness of mouthguards in reducing neurocognitive deficits following sports related concussion. Dental Traumatology, 23(1),14-20.
- Rohde R, **Collins MW**, Lovell MR, Pardini J, Fu F. ImPACT of sleep deprivation on symptoms and neurocognitive performance of orthopaedic residents. Proceedings of the American Academy of Orthopaedic Surgeons. In Press.
- McClincey M, Lovell MR, **Collins MW**, Pardini J. Recovery from sports concussion in high school and collegiate athletes. Brain Injury, 2006:20(1);33-39
- Shatz P, Pardini J, Lovell MR, **Collins MW**, Podell K. Sensitivity and specificity of the ImPACT test battery for concussion in athletes. Archives of Clinical Neuropsychology 2005:21;91-99.
- Iverson GL, Brooks BL, **Collins MW**, Lovell MR. No cumulative effects for one or two previous concussions. British Journal of Sports Medicine, 2006:40;72-75.

- Biasca N, Lovell MR, **Collins MW**, Jordan B, Matser E, Weber J., Slemmer JE, Piccininni P, Maxwell W, Agosti R, Wirth S., Schneider. Die unerkannte Hirnverletzung im Sport: das leichte Schadel-Hirn-Trauma und seine Folgen Teil 1 (First International Meeting on Minor Traumatic Brain Injury. Unfallchirurg (German),2006:109(2);101-111.
- Grove R, Lovell MR, **Collins MW**, Norwig J, Iso A, Maroon J. Spinal cord and cerebral concussion in a professional athlete: A case report. Journal of Athletic Training, NATA News; July, 2005 (Vol. 57).
- Mihalik J, Stump J, **Collins MW**, Lovell MR, Field M, Maroon JC. Posttraumatic migraine characteristics in athletes following sports-related concussion. Journal of Neurosurgery 2005;102:850-855.
- Iverson GL, Lovell MR, **Collins MW**. Validity of ImPACT for measuring processing speed following sports-related concussion. Journal of Clinical and Experimental Neuropsychology, 2005;27(6):683-99.
- Collins MW**, Stump JE, Lovell MR. New developments in the management of sports concussion. Current Opinion in Orthopaedics, 2004: 15:100-107.
- Lovell MR, **Collins MW**, Iverson GL, Johnston K, Bradley J. Grade 1 or “ding” concussions in high school athletes. American Journal of Sports Medicine. 2004; 32(1):47-54.
- Lovell MR, **Collins MW**, Bradley J. Return to play following sports related concussion. Clinics in Sports Medicine, July 2004;23(3);421-443.
- Iverson GL, Gaetz M, Lovell MR, **Collins MW**. Cumulative effects of concussion in amateur athletes. Brain Injury. 2004;18(4):1-5.
- Iverson GL, Gaetz M, Lovell MR, **Collins MW**. Relation between subjective foginess and neuropsychological testing following concussion. Journal of the International Neuropsychological Society. 2004;10(6);904-907.
- Kontos A, **Collins MW**, Russo S. An introduction to sports concussion for the sport psychology consultant. Journal of Applied Sport Psychology. 2004;16;220-235.
- Lovell MR, **Collins MW**, Fu F, Stump J. Athlete concussion management guidelines using Functional Magnetic Resonance Imaging. Orthopaedic Technology Review 2004;6(4).
- Lovell MR, Hagan T, **Collins MW**, Fu F. Neuropsychological recovery from concussion in male and female football athletes. International Football and Sports Medicine, Proceedings of the American Society for Sports Medicine. Jiri Dvorak and Donald Kirkendall, Editors. Pages 179-185, 2005.

Lovell MR, **Collins MW**, Stump JE, Maroon J, Bradley J, Burke C, Fu F, McClincey M, Van Kampen D. UPMC Sports Concussion Program: Progress and future directions. Pittsburgh Orthopaedic Journal, 2004;15;186-87.

Lovell MR, **Collins MW**, Fu F, Stump J. Athlete concussion management guidelines using functional magnetic resonance imaging. Orthopaedic Technology Review, 2004, 6.

Collins MW, Iverson G, Lovell MR, McKeag DB, Norwig J, Maroon J. On-field predictors of neuropsychological and symptom deficit following sports-related concussion. Clinical Journal of Sport Medicine 2003;13;222-229.

Collins MW, Field M, Lovell MR, Iverson G, Johnston KM, Maroon J, Fu FH. Headache following sports-related concussion: To Play or not to play. American Journal of Sports Medicine, 2003;31(2):168-173.

Iverson GL, Lovell MR, **Collins MW**. Interpreting change on ImpACT following sports concussion. The Clinical Neuropsychologist, 2003;17;460-467.

Field M, **Collins MW**, Lovell MR, Maroon J. Does age play a role in recovery from sports-related concussion? A comparison of high school and collegiate athletes. Journal of Pediatrics 2003;142(5);546-53.

Lovell MR, **Collins MW**, Iverson GL, Field M, Maroon JC, Cantu R, Podell K, Powell JW, Belza M, Fu F. Recovery from mild concussion in high school athletes. Journal of Neurosurgery 98:295-301;2003.

Lovell MR, **Collins MW**, Fu F. New technology and sports-related concussion. Orthopedic Technology Review 5(1):35-37, 2003.

Collins MW, Lovell MR, Iverson G, Cantu R, Maroon J, Field M. Cumulative effects of concussion in high school athletes. Neurosurgery 51:1175-181, 2002.

Collins MW, Hawn KL, Lovell MR. Sports concussion: general issues and the role of preventative dentistry. The Journal of the Southwestern Society of Pediatric Dentistry. 2002; 8 (3): 16-18.

Collins MW & Hawn KL. The Clinical Management of Sports Concussion. Current Sports Medicine Reports. 2002;1(1):12-21.

Lovell MR & **Collins MW**. New Developments in the Management of Sports Concussion. Current Sports Medicine Reports. 2002;1;287-292.

Maroon JC, Field MF, Lovell MR, **Collins MW**, Bost JB. The Evaluation of Athletes with Cerebral Concussion. Clinical Neurosurgery. 2001: 49; 319-332.

Grindel SR, Lovell MR, **Collins MW**. The Assessment of Sport-Related Concussion: The Evidence Behind Neuropsychological Testing and Management. Clinical Journal of Sport Medicine. 2001;11(3):134-143.

Lovell MR & **Collins MW**. New Developments in the Evaluation of Sports Related Concussion. The Pittsburgh Orthopaedic Journal. 2001;12:107-109.

Lovell MR, Iverson GL, **Collins MW**, McKeag DM, & Maroon JC. Does loss of consciousness predict neuropsychological decrements following concussion? Clinical Journal of Sport Medicine. 1999;9(4):193-198.

Collins MW, Lovell MR, McKeag DB. Current Issues in Managing Sports-Related Concussion. Journal of the American Medical Association. 1999;282(24):2283-2285.

Collins MW, Grindel SH, Lovell MR, Dede DE, Moser DJ, Phalin BR, Nogle S, Wasik M, Cordry D, Klotz Daughtery M, Sears SF, Nicolette G, Indelicato P, McKeag, DM. Relationship between concussion and neuropsychological performance in college football players. Journal of the American Medical Association. 1999;282(10):964-970.

Lovell, MR & **Collins, MW**. Neuropsychological assessment of the college football player. Journal of Head Trauma Rehabilitation. 1998; 13(2) 27-35.

Collins, MW & Abeles N. (1996). Subjective memory complaints and depression in the able elderly. Clinical Gerontologist, 16, 29-54.

BOOKS, BOOK CHAPTERS AND COPYRIGHTS

Collins MW, Stump J. Concussion. In Current Diagnosis and Treatment in Orthopaedics. Pat McMahon (ed). In press.

Kontos A, Elbin R, **Collins MW**. Aerobic fitness and concussion outcomes in high school football. In: Slobounov SM, Sebastianelli WJ, editors. Foundations of Sports-Related Brain Injuries. Springer Publishing, 2006.

Collins MW, Iverson GL, Gaetz M, Lovell MR. Sports-related concussion. In: Zasler ND, Katz HT, Zafonte RD, editors. Neurorehabilitation of traumatic brain injury 2nd edition. New York: Demos Medical Publishing; in press.

Lovell MR, Echemendia R, Barth JT, **Collins MW** (Eds). Traumatic Brain Injury in Sports. Lisse, the Netherlands: Swets & Zeitlinger, 2004.

Lovell MR, Hagen TJ, **Collins MW**, Fu F. Neuropsychological recovery from concussion in male and female soccer athletes. In Kirkendall D, ed. Proceeds of the first international conference on injuries in soccer. Chicago: Elsevier, Inc., In Press.

Collins MW, Stump JE. Creating a Successful Concussion Management Program at the High School Level. In Echemendia R (ed). Sports Neuropsychology: A Clinical Primer. In press.

Collins MW, Echemendia R, Lovell MR. Neuropsychological Assessment of the High School and College Athlete. In Traumatic Brain Injury in Sports. Lovell MR, Echemendia R., Barth JT, Collins MW (eds). Lisse, the Netherlands. Swets & Zeitlinger, 2004.

Lovell MR & **Collins MW**. Neuropsychological assessment of the head injured professional athlete. In J.E. Bailes and A. Day (eds). Neurological Sports Medicine: A Guide for Physicians and Athletic Trainers. 2001. Neurosurgical topics book series of the American Association of Neurological Surgeons.

Collins MW, Lovell MR, Nogle S, Monroe J. Field Evaluation of Concussion. Copyright. (1999).

Lovell MR, Maroon J, Podell K, Powell J, **Collins MW**. Immediate Post-Concussion Assessment and Cognitive Testing (ImPACT). Copyright. (1999).

PUBLISHED ABSTRACTS

Iverson GL, **Collins MW**, Roberge MC, Lovell MR. Preseason neurocognitive testing in athletes with academic problems. *Journal of the International Neuropsychological Society*, 14, S1;224, 2008.

Iverson G, **Collins MW**, Lovell MR. New Methods for Interpreting ImPACT in Concussed High School Girls. Oral Presentation. Proceedings of the National Academy for Neuropsychology. October 25, 2008.

Thomas D, Zuckerbraun N, **Collins MW**, Saladino F. Managing concussion in the Emergency Department: The use of Computerized Neurocognitive Testing. Oral Presentation. PaACEP 2008 Annual Scientific Assembly. April 7, 2008.

Stull M, Peterson S, Wang H. **Collins MW**. Neurocognitive impairment in Emergency Department concussion patients. *Academic Emergency Medicine*. May, 2008.

Thomas D, **Collins MW**, Zuckerbraun N. (Unpublished manuscript). Pittsburgh, PA. Neurocognitive assessment of concussion in the Pediatric Emergency Department using ImPACT. Poster accepted for presentation, Pediatric Academic Societies annual meeting, 2008.

Gioia GA, **Collins MW**. (2007). Improving identification and diagnosis of mild TBI with evidence: The Acute Concussion Evaluation (ACE). Invited paper at the seventh annual

Galveston Brain Injury Conference, Galveston, Tx.

Gioia G, **Collins MW**, Isquith PL, Osgood J. (2007). Validation of the Acute Concussion Evaluation (ACE) for identifying pediatric TBI. Poster presentation to the Annual Meeting of the International Society. Portland, Oregon.

Thomas D, **Collins MW**, Zuckerbraun. Neurocognitive assessment of concussion in the pediatric Emergency Department using ImPACT. Pediatric Academic Societies (poster). February 11, 2008. Honolulu, Hawaii.

Iverson GL, **Collins MW**, Lovell MR. Predicting recovery time from concussion in high school football players. Abstract presented at the annual conference of the International Neuropsychological Society, February, 2007. Portland, Oregon.

Lombard L, Zafonte R, **Collins MW**. Atomoxetine as a neurostimulant agent for the treatment of post-concussive cognitive impairment. Abstract accepted at Physical Medicine and Rehabilitation Annual Meeting, 2007.

Fazio V, Fiorillo M, Schanzenberg-Ott S, Lovell MR, Pardini J, **Collins MW**. (2006, September). Relation between acute marker presentation and recovery period in concussed amateur athletes. Poster presentation; North America Brain Injury Society, Miami, FL.

Fazio V, Pardini J, Lovell MR, **Collins MW**. A comparison of the diagnostic utility of the SCAT and ImPACT Assessment systems in sports concussion. Poster session presented at the meeting of the International Neuropsychological Society, Feb 2006, Boston, MA.

Schnakenberg-Ott S, Fazio V, Pardini J, Stovall C, Lovell MR, **Collins MW**. Relation between acute symptom presentation in concussed amateur athletes. National Academy of Neuropsychology Annual Meeting. San Antonio, Texas, 2006.

Schnakenberg-Ott, S., Fazio, V., Pardini, J., Stovall, C., Lovell, M., & **Collins, M.** (2006, October). The relation between acute symptom presentation and cognitive functioning in concussed amateur athletes. Poster presented at the 26th annual National Academy of Neuropsychology conference, San Antonio, TX.

Schnakenberg-Ott, S., Stovall, C., Lovell, M., Fazio, V., Pardini, J., & **Collins, M.** (2006, October). Relation of post concussion symptom presentation and eventual return to play in amateur athletes. Poster presented at the 26th annual National Academy of Neuropsychology conference, San Antonio, TX.

Stovall, C., Schnakenberg-Ott, S., Pardini, J., Fazio, V., Lovell, M. & **Collins, M.**

- (2006, October). The use of memory constructs as indicators of cognitive dysfunction in concussed athletes. Poster presented at the 26th annual National Academy of Neuropsychology conference, San Antonio, TX.
- Schnakenberg-Ott, S.D., Pardini, J.E., Fazio, V.C., Lovell, M.R., & **Collins, M.W.**, (2006, August). Region of injury and neuropsychological deficits in concussed athletes. Poster presented for the 114th Annual Convention of the American Psychological Association, New Orleans, LA.
- Iverson GL, **Collins MW**, Lovell MR. Predicting recovery time from concussion in high school football players. International Neuropsychological Society Annual Meeting, 2007.
- Rohde R, **Collins MW**, Lovell MR, Fu F, Gogt M. ImPACT of sleep deprivation on symptoms and neurocognitive performance of orthopaedic residents: A pilot study. Proceedings of the American Academy of Orthopaedic Surgeons. In Press.
- Collins MW**, McClincey M, Lovell MR, Stump j, Lowe A, Maroon J. Cognitive recovery patterns following sports-related concussion. *British Journal of Sports Medicine* 2004; 38:654-664.
- Majerske C, **Collins MW**, Mihalik J, Lovell MR, Wagner C. Concussion in sports: Relationship of activity level after concussion to post-concussive symptoms and neurocognitive performance. *British Journal of Sports Medicine* 2004;38:654-664.
- Lovell MR, **Collins MW**, Bradley J, Van Kampen D, Moritz K, McClincey M. Differential sensitivity of symptoms and neuropsychological testing following sports related concussion. *British Journal of Sports Medicine* 2004;38:654-664.
- Stump J, Lovell MR, Eddy W, Roush J, Welling J, Bakal J, Becker J, **Collins MW**, Lowe A. Functional neuroimaging and neurocognitive recovery after sports-related concussion. *British Journal of Sports Medicine* 2004;38:654-664.
- Pardini D, Stump J, Lovell MR, **Collins MW**, Moritz K, Fu F. The post-concussion symptom scale (PCSS): A factor analysis. *British Journal of Sports Medicine* 2004;38:654-664.
- Shatz P, Lovell MR, **Collins MW**, Moritz K, Bradley J. Sensitivity and specificity of the ImPACT test battery in athletes' concussion status. *British Journal of Sports Medicine* 2004;38:654-664.
- Mihalik J, Stump J, Lovell MR, **Collins MW**, Norwig J, Hagan T, Fu F. Sex differences in acute recovery following concussion in athletes. *British Journal of Sports Medicine* 2004;38:654-664.
- Stump J, **Collins MW**, Lovell MR, Norwig J, Lowe M, McClincey M. Symptom recovery following concussion: Implications for return to play. *British Journal of Sports Medicine*

2004;38:654-664.

Iverson GL, Lange T, Lovell MR, **Collins MW**. No cumulative effects for one or two prior concussions. *British Journal of Sports Medicine* 2004;38:654-664.

Iverson GL, **Collins MW**, Gaetz M, Lovell MR. Tracking neuropsychological recovery following concussion. *British Journal of Sports Medicine* 2004;38:654-664.

Iverson GL, Lovell MR, **Collins MW**. Validity of ImPACT for measuring attention and processing speed following sports-related concussion. *British Journal of Sports Medicine* 2004;38:654-664.

Getz G, Lovell MR, **Collins MW**, Podell K, Iverson G (2004). Self-report symptoms of concussion in male and female athletes. In *International Neuropsychological Society: 32nd Annual Meeting Program and Abstracts* (p. 167). Columbus, OH: International Neuropsychological Society.

Podell K, Lovell MR, **Collins MW**, Iverson G (2004). Gender differences during baseline and post-concussion symptom reporting and cognitive testing in high school and college athletes. In *International Neuropsychological Society: 32nd Annual Meeting Program and Abstracts* (p.157). Columbus, OH: International Neuropsychological Society.

Stump, J., Shatz, P., Lovell, M., & **Collins, MW**. (2004). Sensitivity and specificity of the ImPACT test battery in athletes' concussion status. In *International Neuropsychological Society: 32nd Annual Meeting Program and Abstracts* (p. 167). Columbus, OH: International Neuropsychological Society.

Collins MW, Field M, Maroon J, Lovell MR, Bost J. The use of ImPACT to manage sports related concussion: Validity data and implications for return to play. Proceedings of the Congress of Neurological Surgeons Annual Meeting, 2003.

Field M, **Collins MW**, Lovell MR, Bost J, Maroon J. Does brief loss of consciousness define concussion severity in athletes? Proceeding of the Annual Congress of Neurological Surgeons Meeting, 2003.

Field M, **Collins MW**, Maroon J, Lovell MR, Bost J. Important markers of sports concussion severity: Retrograde and anterograde amnesia. Proceedings of the Congress of Neurological Surgeons Annual Meeting, 2003.

Collins MW, Lovell MR, Fu F. A data-based approach to concussion management: The use of computerized neuropsychological testing. Proceedings of the American Orthopaedic Society for Sports Medicine Annual Meeting, 2003.

Lovell MR, Bradley J, **Collins MW**, Burke C. Loss of consciousness does not define concussion severity in sport: Support for the Vienna Concussion Statement. Proceedings of the

American Orthopaedic Society for Sports Medicine Annual Meeting, 2003.

Iverson GL, Lovell MR, **Collins MW**. Reliable change in ImPACT version 2.0 following sports concussion. *Archives of Clinical Neuropsychology*, 2003:18, 744.

Iverson GL, Lovell MR, Podell K, **Collins MW**. Computerized neuropsychological testing in sports-related concussion: Reliability and validity of ImPACT. *Journal of International Neuropsychological Society*, 2003:9, 156.

Iverson GL, Moseley J, **Collins MW**, Lovell MR. Outcome from concussion in amateur soccer players. *Journal of the International Neuropsychological Society*, 2003:9, 156.

Iverson G, Lovell MR, **Collins MW**, Norwig J. Tracking recovery from concussion using ImPACT: Applying reliable change methodology. *Archives of Clinical Neuropsychology* 2002:17(8);770.

Iverson G, Lovell MR, **Collins MW**. Validity of ImPACT for measuring the effects of sports-related concussion. *Archives of Clinical Neuropsychology* 2002:17(8);769.

Iverson GL, Podell K, Lovell MR, **Collins MW**. ImPACT normative data for high school and college athletes. *Archives of Clinical Neuropsychology* 2002:17, 770.

Iverson GL, Gaetz M, Lovell MR, **Collins MW**. Relation between fogginess and outcome following concussion. *Archives of Clinical Neuropsychology* 2002:17(8);769.

Iverson GL, Gaetz M, **Collins MW**, Lovell MR. Cumulative effects of concussion in amateur athletes. *Archives of Clinical Neuropsychology* 2002:17(8);769.

Lovell MR, **Collins MW**, Fu FH, Burke CJ, Maroon JC, Podell K, Powell, J. Neuropsychological testing in sports: past, present, and future. *British Journal of Sports Medicine* 2001;35:367.

Lovell MR, **Collins MW**, Maroon JC, Cantu R, Hawn K, Burke C, Fu F. Inaccuracy of symptom reporting following concussion in athletes. *Medicine and Science in Sports Exercise*, 34:5; 2002, supplement.

Collins MW, Lovell MR, Maroon JC, Cantu R, McKeag D. Memory dysfunction eight-days post injury in high school athletes. *Medicine and Science in Sports and Exercise*, 34:5; 2002, supplement.

Collins MW, Lovell MR, Hawn KL, Maroon JC, Norwig J, Grove R, White D, Grollman L. Recovery patterns following concussion: implications for return to play. *Journal of Athletic Training*, 37:2;2002 supplement.

Hawn KL, Lovell MR, **Collins MW**, Maroon JC, Norwig J, Grove R, Grollman L, White D.

Important markers of concussion severity: retrograde and anterograde amnesia. *Journal of Athletic Training*, 37:2; 2002 supplement.

Lovell MR, **Collins MW**, Hawn KL, Maroon JC, Norwig J, Grove R, Grollman L, White D. Does brief loss of consciousness define concussion severity in athletes? *Journal of Athletic Training*, 37:2; 2002 supplement.

Maroon JC, Lovell MR, **Collins MW**, Bost J. New developments in the management of sports concussion: The Pittsburgh Steelers protocol. Accepted paper abstract for the 2002 Congress of Neurological Surgeons Annual Meeting.

PEER REVIEW

Editorial Board:

Journal of Athletic Training

Brain Injury Professional

Reviewer:

Journal of Neurology and Neuropsychiatry (JNNP)

Journal of the American Medical Association

Archives of Pediatrics & Adolescent Medicine

Clinical Journal of Sport Medicine

American Journal of Sports Medicine

Journal of Science and Medicine in Sport

Neurosurgery

Journal of Pediatrics.

British Journal of Sports Medicine

Pediatrics

Grant Review:

National Operating Committee on Safety and Equipment

National Federation of High Schools (Sports Medicine Committee)

Centers for Disease Control and Prevention

PROFESSIONAL ACTIVITIES RESEARCH

ACTIVE GRANTS

Gioia GA, Collins MW, Zuckerbraun N, Thomas D. Feasibility of Acute Concussion Management in the Emergency Department.

Site Principal Investigator

Grant Agency: Centers for Disease Control and Prevention

Grant Number: 1 U49 CE001385-01

Total Costs: \$499,963

Years of Grant: 2

Funding Dates: 08/01/08-07/31/10

Percent Effort: 12.5%

Gioia GA, Lovell MR, Collins MW, Adirim T, Isquith P. Development and Validation of Measures to Assess Outcomes of Mild Traumatic Brain Injury.

Grant Agency: Centers for Disease Control and Prevention

Grant Number: CCU323352-01

Total Costs: \$1,940,360.

Years of Grant: 4

Funding Dates: 09/30/03-09/29/07

Percent Effort: 20%

Stevenson M, Collins MW, Finch C, Lee A, Lovell MR. Managing Return to Play Decisions Following Mild Traumatic Brain Injury: A Cohort Study.

Grant Agency: Centers for Disease Control and Prevention

Grant Number: CCR 323155-01

Total Costs: \$492,250

Years of Grant: 5

Funding Dates: 10/01/03-09/31/07

Percent Effort: 8%

COMPLETED GRANTS

Lovell MR, **Collins MW**, Boada F, Stenger VA, Field M, Becker J, Fu F, Maroon J, Eddy W. fMRI and Sports-Related Concussion.

Title: Co-Investigator

Grant Agency: National Institutes of Health (NINDS)

Grant Number: NS-01-007

Total Costs: \$2,856,387 for five year period; 40% Effort

Dates Inclusive: 02/01/01-10/01/07

Lovell MR, **Collins MW**, Podell K. (May, 1999). The comparison of computerized versus traditional neuropsychological testing in developing objective criteria for return to play following concussion in high school athletes.

Grant Agency: National Academy of Neuropsychology (NAN):

Funds Dispersed: \$17,960.00

Dates Inclusive: 05/99-5/00

Lovell MR, **Collins MW**, Kovan J., Nogle S. (April, 1999). Traditional and Computerized Neuropsychological Tests: A multi-sport study of concussion.

Grant Agency: National Collegiate Athletic Association (NCAA)

Funds Dispersed: \$8,000.00

Dates Inclusive: 04/99-04/00

Lewine JD, Jones GM, Petron DJ, Chong B, **Collins MW**, Grindel SH, Bigler ED. February, 1999). Magnetic source imaging analysis and neuropsychological testing in college football players: An analysis of mild head trauma.

Grant Agency: Center for Advanced Medical Technology, University of Utah

Funds Dispersed: \$15,000.00

Dates Inclusive: 02/99-02/00

Dede DE, **Collins MW**, Phalin B, Moser D, Sears S. (December, 1998). Neuropsychological testing with the University of Florida football team. Research/clinical consultant.

Grant Agency: University of Florida Golden Opportunity Program

Funds Dispersed: 3,500.00

Dates Inclusive: 12/98-12/99

Collins M.W. (August, 1997). Neuropsychological Testing in College Football Players: An Analysis of Mild Brain Trauma and Post-Concussion Syndrome. (Michigan State University)

Grant Agency: Blue Cross/Blue Shield of Michigan Foundation

Funds Dispersed: \$3,000.00

Dates Inclusive: 8/97-8/98

SEMINARS AND INVITED LECTURESHIPS RELATED TO RESEARCH

Collins MW. Management of Sports Concussion. Invited Faculty. Big Sky Sports Medicine and Athletic Training Conference. February 3, 2009. Big Sky, Montana.

Collins MW. Evidence Based management of sports concussion. Invited Faculty. Methodist Sports Medicine 2008 Orthopaedic Symposium. October 10, 2008. Lucas Oil Stadium. Indianapolis, Indiana.

Collins MW. Sports concussion management: An Overview. Invited lecturer. Fairfax County Athletic Trainers. October 1, 2008. Falls Church, Virginia.

Collins MW. New Advances in Sports Concussion Management. Keynote Speaker. 9th Annual HealthEast Brain Injury Conference. September 22, 2008. Brooklyn Park, Minnesota.

Collins MW. Evidence-Based Management of Sports Concussion. Keynote Speaker. Utah Valley Medical Center. July 20, 2008. Provo, Utah.

Collins MW. Evidence-Based Management of Sports Concussion. Keynote Speaker. Charlotte Medical Center. July 9, 2008. Charlotte, NC.

Collins MW. Management of Mild Traumatic Brain Injury in the Injured Soldier. Maine National Guard. Invited speaker. June 12, 2008. Portland, Maine.

Collins MW. Sports Related Concussion. Keynote Speaker. South Shore Hospital. June 11, 2008. South Weymouth, MA.

Collins MW. Concussion in Children and Adolescents. Health One. Sky Ridge Medical Center. May 29, 2008. Denver, Colorado.

Collins MW. Management of MTBI in the Emergency Department: the Use of ImPACT. Keynote speaker. Sky Ridge Medical Center. May 28, 2008. Denver, Colorado.

Collins MW. Concussion Discussion. Keynote Speaker. Decatur Memorial Healthcare symposium. May 17, 2007. Decatur, Illinois.

Collins MW. Concussion in the Adolescent athlete: What are we learning? Invited Speaker. The National Sports Concussion Summit. Sports Concussion Institute. April 18, 2008. Los Angeles, California.

Collins MW. Mild TBI: New insights into a controversial clinical diagnosis. The Seventh World Congress on Brain Injury. International Brain Injury Association. Invited Speaker. April 9, 2008. Lisbon, Portugal.

Collins MW. Short term neuromedical, cognitive, and behavioral phenomenology. The Seventh World Congress on Brain Injury. International Brain Injury Association. Invited Speaker. April 8, 2008. Lisbon, Portugal.

Collins MW. ImPACT Update. UPMC Sports Medicine 10th Annual: Current Issues in Athletic Training. Invited Faculty. March 8, 2008. Pittsburgh, PA.

Collins MW. Sports Related Concussion and Dizziness: What are we Learning. Advanced Vestibular Therapy Course. Invited Faculty. University of Pittsburgh Medical Center. March 8, 2008. Pittsburgh, PA.

Collins MW. Invited faculty. Winer Clinics for Cranial and Spinal Surgery. Evidence-Based management of sports-related concussion. February 26, 2008. Snowmass, Colorado.

Collins MW. Symposia Chairman: Sports Related Concussion. Annual Big Sky Sports Medicine Meeting. February 4, 2008. Big Sky, Montana.

Collins MW. Concussion in Baseball: The ImPACT program. Major League Baseball annual ATC meeting. January 4, 2007. St. Louis, Missouri.

Gioia G, **Collins MW**, Shapiro M. Pediatric Sports Concussion/MTBI: Neuropsychological Assessment and Management. 27th Annual National Academy of Neuropsychology Annual Meeting. November 15, 2007. Scottsdale, Arizona.

Collins MW. Sports Concussion in the Pediatric Athlete. Invited faculty. University of Miami-School of Medicine. Pediatric Brain and Spinal Conference. Coconut Grove, Florida. November 4, 2007.

Collins MW. Sports Concussion. American Academy of Pediatrics Annual Conference. Invited Faculty. Section on Emergency Medicine Program. October 28, 2007. San Francisco, California.

Collins MW. Sports Related Concussion. Invited Faculty. AOSSM-Sports Medicine and Baseball: A Comprehensive Approach. October 19, 2007. Hollywood, California.

Collins MW. 2007 JMA Foundation Town Hall Meeting. Veterans with Traumatic Brain Injury: Is America Meeting Their Needs: A National Debate. Invited expert and panel member. September 19, 2007. Washington D.C..

Collins MW. UPMC Sports Concussion Program Update. Children's Hospital Trauma

Conference. September 4, 2007. Pittsburgh, PA.

Collins MW. Keynote speaker. Health One-Sports Related Concussion Conference. August 7-8, 2007, Denver, Colorado.

Collins MW. Invited faculty. National Athletic Trainer's Association Meeting. Session 21: Understanding sports-related concussion: Are we headed in the right direction? June 29, 2007. Anaheim, California.

Collins MW. Return to Work Following Mild Traumatic Brain Injury. Pennsylvania Dept. of Labor and Industry. 6th Annual Worker's Compensation Conference. June 1, 2007. Hershey, Pennsylvania.

Collins MW. Case studies of Concussion Management: The use of neuropsychological testing. Fourth Annual Sports Related Concussion and Spine Conference. Invited Faculty. April 27, 2007. Fenway Park, Boston, MA.

Collins MW. The use of ImPACT for Concussion Management. Visiting Professor. Carolina Panthers Football Club. March 27, 2007. Charlotte, NC.

Collins MW. Treatment of Sports Concussion. Invited Faculty. Third Annual International Meeting on Concussion in Sports. March 12, 2007. St. Moritz, Switzerland.

Collins MW. ImPACT Training Workshop. Invited Faculty. Third Annual International Meeting on Concussion in Sports. March 12, 2007. St. Moritz, Switzerland.

Collins MW. Sports Related Concussion. Keynote Speaker-Pinky Newall lecture. Great Lakes Athletic Trainer Society Annual Meeting. March 9, 2007. Chicago, Illinois.

Collins MW. Sports Related Concussion. Keynote Speaker. Grand Rounds and Visiting Professor. Akron Children's Hospital. March 2, 2007. Akron, Ohio.

Collins MW. Concussion in Sports: The Use of Neurocognitive Testing. Invited faculty. Big Sky Sports Medicine Meeting. February 1, 2007. Big Sky, Montana.

Collins MW. Concussion in Major League Baseball: Clinical Management Protocols. Invited Faculty. Major League Baseball Winter Meetings Medical Meetin. December 3, 2006. Swan and Dolphin Resort. Orlando, Florida.

Collins MW. Current concepts in concussion management: ImPACT Discussion. Keynote Speaker. Cooper Health System CME Sports Medicine Conference. November 10, 2006. Cherry Hill, New Jersey.

Collins MW. Mild TBI: Concussion in High School Sports. Invited Faculty. Pediatric Brain and Spinal Cord Conference. University of Miami, Dept. of Pediatrics, Surgery and

Neurosurgery. November 3, 2006. Miami, Florida.

Collins MW. Psychometric Testing in the Concussed Athlete. American Academy of Pediatrics Annual Meeting. Section on Sports Medicine and Fitness. October 9, 2006. Atlanta, Georgia.

Collins MW. The ImPACT Concussion Management Program. Keynote Speaker. Providence HealthCare System. September 25, 2006. Anchorage, Alaska.

Collins MW. Section Chair. The Brain Injury Conference of the Americas-Sports Related Concussion/Mild TBI track. Plenary Talk: Management of Sports Related Concussion: Research and Clinical Application. September 14, 2006. Miami, Florida.

Collins MW. Management of Sports Concussion. Keynote Lecture. Atlantic Health Neuroscience Institute. Mild Brain Injury in Sports Conference. September 7, 2006. Whippany, New Jersey.

Collins MW. Management of Sports Concussion. Keynote Lecture. Missouri Athletic Trainers Association Annual Meeting. May 20, 2005. Cape Girardeau, Missouri.

Collins MW. Neuropsychological testing, cognitive neurorehabilitation and return to play. Sports Related Conference on Concussion and Spine Injury. Invited Faculty. May 19, 2006. Fenway Park-Boston, Massachusetts.

Collins MW. Sports related concussion: An Overview. Three Rivers Pediatric Conference. Invited Faculty. May 18, 2006. Pittsburgh, PA.

Collins MW. Concussion-When can the athlete return to the game. Annual Emergency Medicine Update: Orthopaedic and Sports Medicine Emergencies. Invited Faculty. April 21, 2006, Pittsburgh, PA.

Collins MW. Data based management of sports concussion. Invited faculty. Far West Athletic Trainers Association 2006 Annual Meeting. April 7, 2006. San Diego, California.

Collins MW. Biomechanical aspects of concussion: New Developments in helmet technology. Second International Meeting on Minor Traumatic Brain Injuries in Sports. Invited faculty. March 17, 2006. St. Moritz, Switzerland.

Collins MW. Recovery from concussion in high school and college athletes: Recovery patterns and the cumulative effects of injury. Second International Meeting on Minor Traumatic Brain Injuries in Sports. Invited faculty. March 17, 2006. St. Moritz, Switzerland.

Collins MW, Lovell MR, Guskiewicz K. Invited Faculty and Workshop Coordinator. 2nd Federal Traumatic Brain Injury Interagency Conference. Centers for Disease Control and Prevention. March 9, 2006. Bethesda, Maryland.

- Collins MW.** Sports Related Concussion and the Major League Baseball Player. Keynote lecture. Philadelphia Phillies Annual Spring Training Medical Education Program. Major League Baseball Spring Training. March 3, 2006. Tampa, Florida.
- Collins MW.** Sports related concussion outcomes. Keynote Speaker. Brain Injury Association of Arizona Concussion Conference. February 18, 2006. Tempe, Arizona.
- Collins MW.** Data based management of sports concussion: Research and clinical application. Invited faculty. 46th Annual Convention: Illinois Speech-Language-Hearing Association. February 10, 2006. Rosemont, Illinois.
- Collins MW.** Management of sports concussion: An update and use of the ImPACT Program. Major League Baseball Annual Umpires Meeting and Physicals. February 6, 2006. Scottsdale, Arizona.
- Collins MW.** Neurocognitive testing and sports concussion: An evolving science. Big Sky Athletic Training Sports Medicine Conference. Invited Faculty. January 30, 2006. Big Sky Resort, Montana.
- Collins MW.** Evaluating the Severity of Concussion in Athletes. Keynote Speaker: Sports Concussion Management Workshop. Aurora Health Care. Lambeau Field Atrium. November 30, 2005. Green Bay, Wisconsin.
- Collins MW.** Concussion and Mild Traumatic Brain Injury: Neuropsychiatric Testing. Invited faculty. American Academy of Physical Medicine and Rehabilitation. 2005 Annual Assembly. October 28, 2005. Philadelphia, PA.
- Collins MW.** Sports-related concussion: Acute management and triage. 2005 STAT MedEvac Annual Nursing Symposium. October 8, 2005. Pittsburgh, PA.
- Collins MW.** Session Chairman: North American Brain Injury Society-Sports Concussion Track. Data Driven Management of Sports Concussion: Research and Clinical Application. September 23, 2005. Ritz Carleton, Amelia Island, Florida.
- Collins MW.** Evaluation and Treatment of Concussion in Student-Athletes. St. Cloud State University Invited Lecture. June 21, 2005. St. Cloud, Minnesota.
- Collins MW.** Sports Concussion Management: Research and Clinical Application. Grand Itasca Sports Medicine Invited Community Lecture. June 21, 2005. Grand Rapids, Minnesota.
- Collins MW., Maroon JC.** Care of the athlete: Professional and non-professional weekend warrior. Invited Faculty. American Academy of Neurosurgeons National Meeting: Section on Disorders of the Spine and Peripheral Nerves. March 10, 2005. Desert Ridge

Resort. Phoenix, Arizona.

Collins MW. Concussion and longevity. Fifth Annual John M. Templeton Jr. Pediatric Trauma Symposium. Invited Faculty. March 5, 2005. Pittsburgh, PA.

Collins MW. An overview of sports concussion management and computer-based neurocognitive testing. 1st International Meeting on Mild Traumatic Brain Injury in Sports. Invited Faculty. February 28, 2005. St. Moritz, Switzerland.

Collins MW. Sports Concussion Management for Emergency Room Physicians. West Virginia Chapter College of Emergency Physicians Annual Meeting. January 30, 2005. Snowshoe Mountain Resort. Snowshoe, West Virginia.

Collins MW, Lovell MR, Moser R, Shatz P. Knock, knock: Opening the door to youth sports concussion services. National Academy of Neuropsychology annual meeting. November 18, 2004. Seattle, Washington.

Collins MW. Recent developments in the management of sports concussion. Invited faculty. 25th Annual Neurorehabilitation Conference on Traumatic Brain Injury, Stroke, and Parkinson's Disease. HealthSouth Braintree Rehabilitation Hospital. November 13, 2004. Boston, Massachusetts.

Collins MW. Is loss of consciousness significant? Invited Faculty. Second International Symposium on Concussion in Sport. Sponsored by the International Ice Hockey Federation, FIFA, and the International Olympic Committee. November 5, 2004. Prague, Czech Republic.

Collins MW. Management of sports concussion. New Developments in Sports Medicine conference. Mount Carmel Rehab and Sports Medicine, October 24, 2004. Columbus, Ohio.

Collins MW. Concussion: The ImPACT Evaluation System. 27th Annual Sports Medicine Seminar: Medical Society of New Jersey. October 6, 2004. New Brunswick, New Jersey.

Collins MW. Second Impact Syndrome and Concussion Management. National Federation of High Schools Annual Meeting/Section 7-8. September 20, 2004. Lake Tahoe, California.

Lovell MR, Maroon J, **Collins MW**, Fu F. Conference Directors: New Developments in Sports-Related Concussion. July 16-18, 2004. Pittsburgh, PA.

Collins MW. Computer-based neuropsychological testing. New Developments in Sports Related Concussion Conference. July 17, 2004. Pittsburgh, PA.

Collins MW. An overview of sports concussion management. Invited lecture. Lockport Fifth Annual Concussion Conference. July 8, 2004. Chicago, Illinois.

- Collins MW.** Interpretation and clinical use of ImPACT for concussion management. Invited Keynote lecture. New Zealand Rugby Football Union. June 29, 2004. Auckland, New Zealand.
- Collins MW.** Concussion in sport: the prevention and management. Keynote Lecture. Sports Medicine Australia and the University of South Wales. June 23, 2004. Sydney, Australia.
- Collins MW.** New developments in the management of sports concussion. Keynote Lecture. College and high school sports medicine conference. Nova Care Rehabilitation annual sports medicine meeting. June 5, 2004. Columbus, Ohio.
- Collins MW.** Data-based management of sports concussion and return to play: Evolving beyond a grading system approach. Distinguished lecture. Harvard University/Spaulding Rehabilitation Hospital. June 4, 2004. Boston, Massachusetts.
- Collins MW.** Neuropsychological testing for adolescents and adults with concussion. Faculty for the Massachusetts Medical Society's Committee on Student Health. April 6, 2004. Waltham, Massachusetts.
- Collins MW.** Contemporary management of sports concussion. Keynote Address. Springfield College Annual Reunion. March 27, 2004. Springfield, Massachusetts.
- Collins MW.** What neuropsychological testing is teaching us about concussions. Invited Faculty. Contemporary Management of Sports Concussion. Westchester University Department of Sports Medicine. March 20, 2004. Westchester, Pennsylvania.
- Collins MW.** New Helmet Technology and Sports Concussion: What are we Learning? Special Guest. NFL Equipment Manager's Meeting. March 1, 2004. Laguna Cliffs Marriot. Dana Point, California.
- Collins MW.** New Developments in Neuropsychological Testing. Invited Faculty. Neurotrauma and Sports Medicine Review. February 29, 2004. Phoenix, Arizona.
- Collins MW.** An Update on the ImPACT Concussion Management Program. Grand Rounds. Arizona State University. February 26, 2004. Tempe, Arizona.
- Collins MW.** Sports Concussion in the High School Athlete: What are we Learning? Invited faculty for featured symposia. International Neuropsychological Society 32nd Annual Meeting. February 6, 2004. Baltimore, Maryland.
- Collins MW.** Use of the ImPACT Concussion Management Program for Sports-Related Concussion. Keynote Speaker. Marshall-Browning Hospital, Southern Illinois University, and Southeastern Missouri State University. January 24-25, 2004. Carbondale, Illinois.

Collins MW. New Developments in the Management of Sports Concussion. Keynote Address. National Operating Committee on Safety and Equipment annual board meeting. January 17, 2004

Collins MW. Head injuries and liability-Sports Related Concussion. National Federation of State High School Associations. Annual Meeting. Invited Faculty. December 14, 2003. Indianapolis, Indiana.

Collins MW. Management of Sports Concussion: Best Current Practice. New Zealand Rugby Football Union' Annual Medical Meeting. Invited Faculty. December 4-5, 2003. Auckland, New Zealand.

Collins MW. Sports Related Concussion: Evaluation, Treatment and Prevention. American Academy of Physical Medicine and Rehabilitation. Annual Meeting. Invited Faculty. October 9, 2003. Chicago, Illinois.

Collins MW. The Management of Sports Concussion. University of Rochester Emergency Medicine Grand Rounds. September 11, 2003. Rochester, New York.

Collins MW, Lovell MR, Fu F. A Data-Based Approach to Concussion Management: The Use of Computerized Neuropsychological Testing. Invited Faculty. American Orthopaedic Society for Sports Medicine. 29th Annual Meeting. San Diego, California.

Collins MW. Sports-Related Concussion. Invited Faculty (two presentations) for the 5th World Congress on Brain Injury. May 23-26, 2003. Stockholm, Sweden.

Collins MW. Sports Concussion. Invited Faculty. 20th Anniversary; Primary Care Update. May 2, 2003. Spokane, Washington.

Collins MW. Sports Concussion: An Overview and Update. Keynote Speaker. The Silent Danger in Sports: Sports Concussion Conference. April 29, 2003. FleetCenter. Boston, Massachusetts.

Collins MW. Sports Concussion: An Overview and Update. Invited Faculty. "When Heads Do Not Heal." Healthsouth/Orthopaedic Associates of Portland symposium. March 29, 2003. Portland, Maine.

Collins MW. Sports Concussion: Diagnosis and Management. Invited Faculty. Far West Athletic Trainers Association Annual Meeting. March 22, 2003. Las Vegas, Nevada

Collins MW. Sports Related Concussion: Diagnosis and Management. Invited Faculty. Great Lakes Athletic Trainers Association Annual Meeting. March 13-15, 2003. Evansville, Indiana.

Collins MW. Sports-Related Concussion: Focus on High School Athletes. Symposium participant. 31st Annual International Neuropsychological Society meeting, Feb 5, 2003. Honolulu, Hawaii.

Collins MW. Concussions: Evaluation and Return to Play Criteria. American Sports Medicine Institute. 21st Annual Injuries in Baseball Course. January 23-25th, 2003. Invited Faculty. Atlanta, Georgia.

Collins MW. Concussion: Diagnosis and Management. 2002 Annual Eastern Athletic Trainers Association meeting. Invited faculty. January 5, 2003. Boston, Massachusetts

Collins MW. Concussions. Invited Faculty. 33rd National Conference of High School Athletic Directors. December 17, 2002; San Antonio, Texas.

Collins MW. Role of Neuropsychology in Managing Mild Traumatic Brain Injury. Invited Faculty. Westchester University Sports Medicine Conference. December 8, 2002. Westchester, Pennsylvania.

Collins MW. Concussion: Assessment, Diagnosis, and Use of the ImPACT software. Keynote Address. Commonwealth Sports Medicine. October 28, 2002. Reading, Pennsylvania.

Collins MW. The Use of ImPACT in Managing Sports Related Concussion. Invited keynote lectures in conjunction with the New Zealand Rugby Football Union. August , 2002; Wellington, Dunedin, and Auckland, New Zealand.

Collins MW. The Management of Sports Concussion in Pediatric Athletes. Invited Faculty. Brain Injury Association Annual Meeting. July 26, 2002. Minneapolis, Minnesota.

Collins MW. New Developments in Sports Concussion. Course Co-Director. Westin Hotel, July 19-21, 2002. Pittsburgh, PA.

Collins MW. New Techniques in Concussion Management. Invited Faculty. Illinois Athletic Trainer's Association and Lockport Township High School 3rd Annual Concussion Symposium. July 12, 2002. Chicago, Illinois

Collins MW. Concussion: Diagnosis and Management. Invited Faculty. American Orthopaedic Society for Sports Medicine Annual Meeting. July 3, 2002. Contemporary Resort, Orlando, Florida.

Collins MW. Sports Related Concussion and the Role of Preventative Dentistry. Invited Faculty. Academy for Sports Dentistry Annual Meeting. June 21, 2002. San Antonio, Texas.

Collins MW. Recovery Patterns Following Concussion: Implications for Return to Play. Research presenter. National Athletic Trainer's Association Annual Meeting. June 15,

2002. Dallas, Texas.

Collins MW. Sports Related Concussion. Invited Faculty. Pennsylvania Brain Injury Association Annual Meeting. June 2, 2002. Harrisburg, PA.

Collins MW. New Developments in the Management of Sports Concussion. Invited Faculty. Annual Meeting of the American College Health Association. June 1, 2002. Washington D.C.

Collins MW. New Developments in the Management of Sports Concussion. Invited Faculty. Far West Athletic Trainer's Association Annual Symposium. April 26, 2002. Oakland, California.

Collins MW. Management of Concussion in Athletes. Invited Faculty. Arthroscopy and Sports Medicine Meeting. Pennsylvania Orthopaedic Society. April 13, 2002. Westin Rio Mar, Puerto Rico.

Collins MW. Management of Sports Concussion Via Computerized Neuropsychological Testing. Research presenter. American Medical Society for Sports Medicine annual meeting. April 9, 2002. Orlando, Florida

Collins MW. New Developments in the Management of Sports Concussion. Invited Faculty. Pennsylvania State Athletic Director's Association annual meeting. Invited faculty. March 22, 2002. Hershey, PA.

Collins MW. Sports Related Concussion in Extreme Sports. Invited faculty. Pennsylvania Safe Kids Coalition, Action Sports Safety and Injury Prevention Training seminar. March 14, 2002. Harrisburg, PA.

Collins MW. New Development in the Management of Sports Concussion. Invited faculty. Great Lake Athletic Trainers Association Annual Meeting. March 7, 2002. Columbus, OH.

Collins MW. Sports Related Concussion: General Issues and the Role of Preventative Dentistry. Keynote Speaker. University of Pittsburgh School of Dental Medicine: Mentoring Mid-Year meeting. January 16, 2002. Pittsburgh, PA.

Collins MW. New Developments in the Management of Sports Concussion. Invited faculty. 2001 Major League Baseball Winter Meetings: Annual Medical Symposium. December 9, 2001. Boston, Massachusetts.

Collins MW. Sports Concussion in the High School Athlete. Keynote Speaker at the 3rd Annual Sports & Concussion Workshop. Sponsored by the Brain Injury Association of Maine. November 17, 2001. Brewer, Maine.

Collins MW. Complications of Concussion in the Elite and Recreational Athlete. Invited faculty. Pennsylvania Orthopaedic Society: Complications and Controversies of Common Procedures. November 8-10, 2001. Pittsburgh, PA.

Hardey TR, Echemendia RJ, **Collins MW**, Albo RJ, Chang C, Martin R & Blasquez M. Neuropsychological Screening in Professional, College, and High School Sports. Invited Faculty for the 21st Annual National Academy of Neuropsychology Conference. November 1, 2001. San Francisco, CA.

Collins MW. New Developments in the Management of Sports Concussion. Invited Faculty for the Annual Meeting of the Mid-Atlantic College Health Association. October 26, 2001. Westin Hotel, Pittsburgh, PA.

Collins MW & Lovell MR. Sports Related Concussion. Grand Rounds for the Department of Physical Medicine and Rehabilitation. University of Pittsburgh School of Medicine. September 19, 2001. Pittsburgh, PA.

Collins MW. Concussion Management in High School, College, and Professional Athletes: The ImPACT System. Keynote speaker for the "Concussion Management Workshop." Lecture and workshop to Orthopaedists and Athletic Trainers in Southern Maine. August 8, 2001. Portland, Maine.

Collins MW. New Development in the Management of Sports Concussion. Invited faculty to the 7th annual Sports Medicine Update: The Center for Orthopaedics and Sports Medicine. August 4, 2001. Indiana, PA.

Collins MW. Sports Related Concussion and Mild Head Trauma. UPMC Emergency Medicine Grand Rounds. August 2, 2001. Pittsburgh, PA.

Collins MW. Concussion Assessment in High School and College Athletes: The ImPACT System. Invited faculty to the UPMC Health System New Developments in Sports-Related Concussion conference. July 27-29, 2001. Pittsburgh, PA.

Collins MW. New Developments in the Management of Sports Related Concussion. Mercy Health System Family Practice Grand Rounds. July 17, 2001. Pittsburgh, PA.

Collins MW. Traumatic Brain Injury and Sports. Keynote Speaker for annual SAFE KIDS Coalition meeting. June 14, 2001. Harrisburg, PA.

Lovell MR & **Collins MW.** Concussion Evaluation in Athletics. Invited Faculty to the Pennsylvania Athletic Trainer's 21st Annual Meeting and Clinical Symposium. June 3, 2001. Harrisburg, Pennsylvania.

Collins MW. The Bend, Oregon Concussion Safety Program. Invited keynote lectures in conjunction with the Central Oregon Medical Society and the Orthopaedic and

Neurosurgical Center of the Cascades. May 14/15, 2001. Bend, Oregon.

Collins MW. New Developments in the Management of Sports Related Concussion. Keynote Speaker at the Annual Injury Prevention Program. Trauma Center at Theda Clark. May 7, 2001. Appleton, Wisconsin.

Collins MW. Sports Related Concussion: Pathophysiology and Management. Keynote Speaker at the Fifteenth Annual Summer Trauma Symposium. Trauma Center at Theda Clark. May 7, 2001. Appleton, Wisconsin.

Collins MW & Lovell MR. New Developments in the Management of Sports Related Concussion. Invited Faculty to the Annual Big XII Medical Conference. May 4, 2001. Dallas, Texas.

Collins MW. Head Concussion: When Can the Athlete Return to the Game? Invited Faculty to the Annual Pennsylvania Orthopaedic Society meeting. Fontainebleau Hilton Resort. April 28, 2001. Miami, Florida.

Collins MW. Sports Related Concussion. Mercy Hospital Pediatric Grand Rounds. April 10, 2001. Pittsburgh, Pennsylvania.

Collins MW. Sports-Related Concussion: Clinical Management and Return to Play Issues. Invited Faculty to the UPMC Current Issues in Athletic Training conference. April 7, 2001. Pittsburgh, Pennsylvania.

Collins MW. New Developments in the Management of Sports Related Concussion. Keynote Speaker sponsored by the Behavioral Performance Laboratory at the University of New Orleans. March 30, 2001. New Orleans, Louisiana.

Lovell MR & Collins MW. Making Sense out of Sports Related Concussion. Invited Faculty to the Annual Meeting of the Pennsylvania Athletic Director's Association. March 23, 2001. Hershey, Pennsylvania.

Collins MW. Sports Related Concussion. Invited Faculty to HealthSouth: A Concussion Symposium. March 17, 2001. Portland, Maine.

Collins MW. Sports-Related Concussion: Current Issues and New Developments in the Management of Injury. Invited Faculty to the Great Lakes Athletic Trainers' Association 2001 Annual Meeting. March 10, 2001. Milwaukee, Wisconsin

Collins MW. New Developments in the Management of Sports-Related Concussion. Guest speaker at the West Virginia Intercollegiate Athletic Conference annual meeting. March 1, 2001. Charleston, West Virginia.

Collins MW. Neuropsychological Assessment of Sports-Related Concussion. Guest speaker at

the Pennsylvania Athletic Trainers Annual Meeting. February 12, 2001. Lock Haven University. Lock Haven, PA.

Lovell MR & Collins MW. Making Sense of Sports-Related Concussion. Invited faculty for the 39th annual Pittsburgh Coach of the Year Clinic. February 10, 2001. Radisson Hotel Green Tree. Pittsburgh, PA.

Collins MW. Neuropsychological Assessment of Concussion: Experiences of College Athletes. Invited faculty member for Sports Neurology: Injuries of the Head & Spine. December 2, 2000. Hospital for Special Surgery and the Weill Medical College of Cornell University. New York, New York.

Lovell MR, Collins MW, Podell K, Maroon JC, & Powell J. The Use of Computerized Neuropsychological Testing in Sports. November 17, 2000. A presentation at the annual convention of the National Academy of Neuropsychology. Orlando, Florida

Collins MW. Concussion in Equestrian Sport. Invited Faculty. 11th Annual Meeting of the American Medical Equestrian Association. October 20, 2000. Cleveland, Ohio.

Collins MW. Sports-Related Concussion: Physiology, Epidemiology, and Return to Play Policies. The Science and Practice of Injury Control: Injury Epidemiology Seminar Series. Department of Epidemiology and Center of Injury Research and Control. University of Pittsburgh Medical Center. September 19, 2000. Pittsburgh, Pennsylvania

Collins MW. The Concussion Safety Program for College Athletics. 2 day training seminar. University of California Berkeley; University Health Services, Sports Medicine. August 7,8; 2000. Haas Pavilion. Berkeley, California.

Collins MW. Sports Related Concussion in Pediatrics. Pediatric Grand Rounds. June 28, 2000. St. Joseph/Mercy Hospital. Pontiac, Michigan.

Collins MW. Sports Related Concussion in High School Athletes: Evaluation, Prevention, and Assessment. Invited Community Presentation. June 20, 2000. Lockport Township High School. Chicago, Illinois.

Collins MW. Sports Related Concussion: Current Issues, Neuropathology, Management and a Multi-Center Project. Invited Keynote Address. 11th Annual Tri-State Sports Medicine Conference. May 19, 2000. South Portland, Maine

Collins MW. Sports-Related Concussion: Current Issues, Neuropathology, Relationship to Mild Head Injury, and a Multi-Center Project. Neuropsychology Grand Rounds. March, 2000. Barrow Neurological Institute/St. Joseph's Hospital. Phoenix, Arizona

Collins MW. The Multi-Center Concussion Safety Program for College Athletes. Sports-Medicine/Family Practice Grand Rounds. March, 2000. Arizona State University.

Tempe, Arizona.

Collins MW. Sports-Related Concussion: Recognition, Management, Current Issues, and a Multi-Center Project. Neuropsychiatry Grand Rounds. March, 2000. Henry Ford Health System. Detroit, Michigan.

Collins MW. Concussion: The Misunderstood Sports Injury Workshop. Invited keynote lectures in conjunction with the Brain Injury Association of Maine. November 17, 18, 19th, 1999. Three consecutive lectures in Bangor, Portland, and Rockland, Maine.

Collins MW. Sports-Related Concussion: An Update on Concussion Guidelines, Pathophysiology, and Neuropsychological Testing. Invited lecture at Notre Dame University. Midwestern American College of Sports Medicine meeting. September, 1999. South Bend, Indiana.

Collins MW. Sports-Related Concussion: Assessment and Clinical Management. Invited lecture to Topics in Sport Injury Colloquium. Michigan State University. October, 1999. East Lansing, Michigan.

Prigatano GP, **Collins MW**, Lovell MR, Echemendia R. Return to Play Following Mild Traumatic Brain Injury: Neuropsychology's role. Annual Convention of the American Psychological Association, Division 40 symposium. August, 1999. Boston, Massachusetts.

Collins MW. Preliminary Analysis of Neuropsychological Test Data and Magnetic Source Imaging in College Football Players. Invited lecture to the Center for Advanced Medical Technologies. August, 1999, Salt Lake City, Utah.

Collins MW. Sports-Related Concussion: Recognition, Assessment, Management. Invited lecture to 5th annual Coaches' Clinic. Memorial Healthcare Center. June, 1999. Owosso, Michigan.

Collins MW. A Multi-site College Football Project. An invited paper presented to the National Sports Related Concussion and Nervous System Injuries conference. May, 1999. Orlando, Florida

Collins MW, Dede DE, Moser DJ, Phalin B, Urizar G, Houck C, Sears S. The Neuropsychological Impact of Concussion in College Football Players: A Multi-Center Analysis. Poster presented at International Neuropsychological Society annual meeting. February, 1999. Boston, Massachusetts.

Collins MW. Sports Related Concussion. Invited lecture to the Brain Injury Association of Utah. October, 1998. The Yarrow, Park City, Utah.

Collins MW. Neuropsychological Testing in College Athletes: Multi-Site Concussion Study.

Invited lecture at the Concussion in Athletes conference. October, 1998. Southfield, Michigan.

Collins MW. Uses and Abuses of Concussion Guidelines in Sport. Invited lecture at the Concussion in Athletes conference. October, 1998. Southfield, Michigan.

Collins MW, Dede DE. The Multi-Center Concussion Project. A lecture presented at Center for Neurological Studies. January, 1998. Gainesville, Florida.

Collins MW & Grindel S. Neuropsychological Testing in a College Athlete Population: A Prospective Analysis. Invited Faculty Member for the Head Injured Athlete Symposium at the AMSSM/FIMS World Congress in Sports Medicine. June 3, 1998. Orlando, Florida.

Collins MW. Neuropsychological Testing in College Football Players: A Multi-Center Study of Sports-Related Mild Brain Trauma. Invited Paper Presentation for the National Sports-Related Concussion and Nervous System Injuries Conference. March, 1998. Orlando, Florida.

Collins MW, Abeles N, Nogle S, & Monroe J. Neuropsychological Screening in College Football Players: Preliminary Normative Data. A poster presentation at the Sports Related Concussion and Nervous System Injuries Conference. February, 1997. Orlando, Florida.

Collins MW. Baseline, Post-Concussion, and Post-Season Neuropsychological Testing in College Football Players: An Analysis of Mild Brain Trauma. Grand Rounds presentation to the Department of Family Practice at Michigan State University. February, 1997. East Lansing, Michigan.

Collins MW. Neuropsychological Evaluation of the Athlete: The Michigan State University Project. A lecture presented at the Michigan State University Athletic Trainer Symposium, Michigan State University. February, 1997. East Lansing, Michigan.

Collins MW. Post Concussion Syndrome: Fact or Fiction? Report presented to Graduate Student Seminar in Neuropsychological Topics, Michigan State University. April, 1995. East Lansing, Michigan.

Collins MW. The Role of the Frontal Lobes in Neuropsychological Functioning. Report presented to Graduate Student Seminar in Neuropsychological Topics, Michigan State University. February, 1995. East Lansing, Michigan.

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