



Where are the women?

A new report finds a “glaring absence of women” in award recognitions from medical specialty societies.

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Summer/Fall 2017 spaulding *now*

Focus on Advocacy

Diversity and Inclusion Task Force

Harvard Medical School assembled faculty, students, trainees, fellows, staff and administrators to improve diversity and inclusion across the Harvard Medical School community.

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Focus on Research

How Humans Walk with Robots

A new study in *Scientific American* examines how rehabilitation robots altering gait stability could influence future clinical robotic design.

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Focus on Education

Celebrating the 22nd Graduation

Faculty, residents, fellows, friends and families gathered to celebrate the 22nd graduating class of the Harvard Medical School Department of PM&R this past June.

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A message from Dr. Ross Zafonte



Dear Colleagues,

As the summer winds down and we look ahead to a busy season of conferences, it is a good time to take stock on several fronts. Our Department was proud to gather and celebrate our newest graduates and welcome an incoming group of talented residents this summer. This cycle is truly the life-blood of our profession and their talent, energy and thirst for discovery rejuvenates us all. We were also honored to be selected by the newest Doximity Residency Ranking Navigator as the top overall residency program as well as maintaining the distinction of having the highest research output in PM&R. This is a direct result of the hard work of our faculty, residents, fellows and alumni.

As we look ahead to the various professional conferences where we share important work and honor our colleagues, we also must pause to question whether our profession is truly harnessing the talents of all. In this issue, we spotlight some important work that Dr. Julie Silver and her collaborators have been publishing across various journals demonstrating there is much more we can do to address gender disparities. Like much of medicine, our discipline has not been as effective as possible at creating an inclusive environment for female physicians to have platforms to become part of the next generation of leaders. From a lack of visibility in awards to spots on plenary panels or keynote speaking opportunities; quite simply we need to do better. It is only with a more equitable landscape that we can expect to deliver the science and care that those who depend on us deserve.

We also present a study that shows how the merging of technology and care can create important new opportunities to examine long standing challenges. Dr. Paolo Bonato and his collaborators examined the use of robotics to explore how therapies can be designed on the very basis of how humans learn to walk to start with.

All of us at Spaulding are looking forward to the national film release of "Stronger" on September 22nd. The film details the story of Boston Marathon Bombing survivor Jeff Bauman. As Spaulding played a central role in the response, our hospital was one of the locations for the filming. Our goal for participation is to elevate the critical role that rehabilitative medicine plays in recovery for those impacted by trauma. We look forward to the awareness of our field that this film will provide to a mass audience.

Ross Zafonte, DO

Earle P. and Ida S. Charlton Professor and Chairman of Physical Medicine and Rehabilitation at Harvard Medical School; Senior Vice President of Medical Affairs, Research and Education at Spaulding Rehabilitation Network; Chief of Physical Medicine and Rehabilitation, Massachusetts General Hospital and Brigham and Women's Hospital



Harvard Medical School Task Force on diversity and inclusion formed

HARVARD MEDICAL SCHOOL Dean George Daley assembled faculty, students, trainees, fellows, staff and administrators from across the Harvard Medical School community to form the Task Force on Diversity and Inclusion in early 2017. Serving on that task force from the Department of PM&R at Spaulding is Chloe Slocum, MD, MPH. Dr. Slocum brings a focus on ensuring inclusion for persons with disabilities in the Harvard Medical School community.

“In order to effectively teach, train, and learn to serve the communities we are connected to, it is vital to represent them by having our school reflect those communities. That includes persons with disabilities who face significant issues in terms of equitable access to health care and employment. I’m proud to represent our Department and contribute to this important work,” said Dr. Slocum.

The task force began its work amid broad discussion of diversity at the school. Last year, a group of Harvard Medical School students calling itself the Racial Justice Coalition submitted a petition calling on University President Drew G. Faust to prioritize diversity during the search for the next Dean of the school.

The task force has 38 members representing students, faculty, and staff dedicated to guiding the core values of diversity in the Harvard Medical School community. The Harvard Medical School Task Force on Diversity and Inclusion will focus on four areas:

- » Developing a Harvard Medical School diversity and inclusion vision and policy that are consistent with our mission and values; foster excellence in teaching, research and service; support the multiple dimensions of diversity reflected in our community; and are responsive to regulatory requirements.
- » Identifying measures of accountability to assess the achievement of diversity and inclusion goals and expectations, including mechanisms for promoting evidence-based decision making.
- » Understanding the landscape of current Harvard Medical School, Harvard Medical School-affiliates and Harvard University diversity and inclusion resources and offerings.
- » Prioritizing and exploring areas of diversity and inclusion for deeper investigation, goal-setting and recommendations for action.

Shedding light on how humans walk *with robots*

Research on rehabilitation robots reveals that patients only modify their walking patterns if the robots interfere with gait stability, which could influence future clinical robotic design.

A GROUP OF SCIENTISTS led by Paolo Bonato, Ph.D., Associate Faculty member at the Wyss Institute for Biologically Inspired Engineering at Harvard University and Director of the Motion Analysis Laboratory at Spaulding Rehabilitation Hospital, has discovered a crucial caveat for rehabilitative exoskeletons: humans whose lower limbs are fastened to a typical clinical robot only modify their gait if the forces the robot applies threaten their walking stability.

In a study published in *Science Robotics*, the researchers measured how test subjects' gait changed in response to forces applied by a robotic exoskeleton as they walked on a treadmill. To the team's surprise, the walkers adjusted their stride in response to a change in the length, but not the height, of their step, even when step height and length were disturbed at the same time. The scientists believe that this discrepancy can be explained by the central nervous system's primary reliance on stability when determining how to adjust to a disruption in normal walking.

In fact, the brain is so willing to adapt to instability that it will expend a significant amount of the body's

energy to do so, most likely because the consequences of wobbly walking can be severe: a broken ankle, torn ligaments, or even a fall from a height. However, this prioritization of stability means that other aspects of walking, like the height of the foot off the ground or the angle of the toes, may require treatment beyond walking in a clinical exoskeleton. Most robots used in clinical settings today do not allow for customization of step height and other modifications.

The brain appears to create an internal model of the body's movement based on the environment and its normal gait, and effectively predicts each step. When reality differs from that model (i.e., when a force is applied), the brain adjusts the body's step length accordingly to compensate until the force is removed and the body recalibrates to the mental model.

"The results of our study give us insight into the way people adapt to external forces while walking in general, which is useful for clinicians when evaluating whether their patients will respond to clinical robot interventions," says Bonato, who is also an Associate Professor at Harvard Medical School.

Story by Lindsay Brownell courtesy of The Wyss Institute for Biologically Inspired Engineering at Harvard University (<http://wyss.harvard.edu>)



Focus on Education



Upcoming CME Courses

Musculoskeletal Ultrasound at the Point-of-Care: Diagnostic and Procedural Applications September 16–17, 2017, Boston, MA

Musculoskeletal ultrasound is a highly valuable skill that has been shown to expedite the diagnosis and management of a variety of musculoskeletal conditions, improve procedural accuracy and safety, improve patient outcomes, and is of significantly less cost than other advanced imaging modalities. This course, co-sponsored with Massachusetts General Hospital, is geared towards physicians and allied health professionals looking to gain expertise in musculoskeletal ultrasound as part of their practice.

Course Directors

Minna J. Kohler, MD, RhMSUS
Joanne Borg-Stein, MD, RMSK

For more information contact
ceprograms@hms.harvard.edu

Career Advancement and Leadership Skills for Women in Healthcare November 2–4, 2017, Boston, MA

This program delivers evidence-based strategies, skills development and education that help women at various stages of their healthcare careers step into and succeed in leadership positions. It also helps women—and men—effectively cultivate female managerial talent in healthcare settings by developing leadership competencies.

Course Director

Julie K. Silver, MD

Assistant Director

Saurabha Bhatnagar, MD

For more information or register at:
<https://womensleadership.hmscme.com/>

On the Cover



Where are the Women

A new report finds a “glaring absence of women” in award recognitions from medical specialty societies.

RESearchers from Spaulding, Massachusetts General and Brigham and Women’s Hospitals published a report in July in the journal *PM&R* titled “Where are the Women? The Underrepresentation of Women Physicians among Recognition Award Recipients from Medical Specialty Societies.” This report built upon their previous research and included seven medical specialties: physical medicine and rehabilitation, dermatology, neurology, anesthesiology, orthopedic surgery, head and neck surgery, and plastic surgery. Examples of the underrepresentation of women physicians at zero or near-zero levels was found in each of these specialties. The authors of this report compared the results to the proportion of women physicians that are in each of the specialties. They also used a concept from American courts called the “inexorable zero” to make the point that a glaring absence of women suggests there may be an underlying discrimination issue.

The lead author on the report, Julie K. Silver, MD, is an Associate Professor and Associate Chair in the Department of Physical Medicine and Rehabilitation at Harvard Medical School and the Associate Chair for Strategic Initiatives for the Spaulding Rehabilitation Network. Dr. Silver and other researchers from the Department of Physical Medicine and Rehabilitation at Harvard Medical School were joined in this report by Sareh Parangi, MD who is a Professor of Surgery at Harvard Medical School and an oncology surgeon at Massachusetts General Hospital as well as the vice-president of the Association of Women Surgeons, Anna Bank, MD, a neurology resident at Massachusetts General Hospital, and Amparo Villablanca, MD who is a Professor and Chair for the Department of Cardiovascular Medicine and the Director of Women in Medicine and Health Sciences at the University of California, Davis.

Dr. Silver says, “The same type of criteria that is used for recognition awards is also used for academic faculty promotion at the medical school level. Moreover, many of the resources that are needed for faculty promotion are owned or controlled by medical societies. To address promotion and pay disparities for women in

medicine, we need to better understand the role of our professional organizations. I believe that connecting these dots may also enhance efforts aimed at physician burnout and patient healthcare service disparities.”

Medical societies provide key platforms for professional advancement and major awards recognition and accompanying lectureships are important factors towards career advancement. The lack of representation creates a cycle where women are not afforded the opportunity to be considered and thus do not have the opportunities to do work that can be recognized.

The authors propose a call for action across the entire spectrum of medical societies to: 1) examine gender diversity and inclusion data through the lens of the organization’s mission, values and culture; 2) transparently report the results to members and other stakeholders including medical schools and academic medical centers; 3) investigate potential causes of less than proportionate representation of women; 4) implement strategies designed to improve inclusion; 5) track outcomes as a means to measure progress and inform future strategies; and 6) publish the results in order to engage community members in conversation about the equitable representation of women.

Dr. Ross Zafonte, Chair of the Department of Physical Medicine and Rehabilitation at Harvard Medical School and Senior Vice President of Research, Education and Medical Affairs at Spaulding, said, “Harnessing the power of our talented and diverse physician workforce is absolutely necessary in order to advance clinical care, improve research agendas and train the next generation of physician leaders. Diversity is a powerful tool to enhance problem solving and patient-centered practice. A glaring absence of recognition awards for women physicians is troubling; this work serves as a call toward systematic societal and organizational improvement. In this new report, Dr. Silver and colleagues have mapped out a metric-driven diversity inclusion plan that medical societies should consider adopting and make a top priority. We need everyone engaged and involved in order to solve the many health delivery problems we face.”

PM&R
Graduation

The Harvard Medical School Department of PM&R at Spaulding celebrated the 22nd graduation at the Harvard Club in June. As a teaching hospital for Harvard Medical School, training the next generation of physician leaders is fundamental to Spaulding's mission.

The annual Dr. J. Robert Shaughnessy PM&R Research & Education Day was held as part of the graduation weekend events. The event welcomed renowned experts on a variety of topics as well as presentations by several residents.

The David E. Storto Distinguished Lecture in PM&R was given by Kathleen Bell, MD, Professor and Kimberly Clark Distinguished Chair in Mobility Research, Department of PM&R, University of Texas Southwestern Medical Center.

The N. Ender Oruc, MD, Distinguished Lecture in PM&R was Julianne Glowacki, PhD, Professor of Orthopedic Surgery and Professor of Oral & Maxillofacial Surgery, Orthopedics Department, Brigham and Women's Hospital.

The Paul J. Corcoran, MD, Distinguished Lecture in PM&R was Amie McLain, MD, Chair and Professor Department of PM&R, University of Alabama School of Medicine.

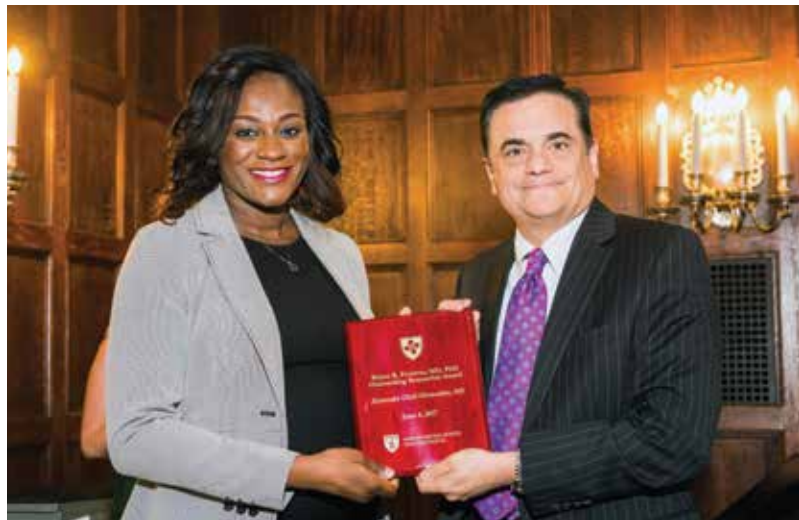
Graduating Residents

Alexander Bajorek, MD
Sara Cartwright, MD
Kate Delaney, MD
Ginger Polich, MD
Marisa Flavin, MD
Peter Wu, MD, PhD
Robert Diaz, MD

Graduating Fellows

Damon Gray, MD
David Cormier, DO
Shirley Shih, MD
Liz Adamova, DO





Accomplishments

January 2017–July 2017

*Spaulding Rehabilitation Network
Physical Medicine &
Rehabilitation Department*

American Burn Association Annual Meeting, Boston Platform Presentations

Schneider JC. Co-Moderator. *Controlling the ITCH—Prevalence, Assessment and Treatment*. American Burn Association Annual Meeting. Boston, MA. [3/23/17]

Benavides L, Parry IS, Yelvington M, Shon R, Epp J, Simko LC, McMullen KA, Gibran NS, Wiechman S, Herndon DN, Suman OE, Meyer WJ, Holavanahalli R, Ryan CM, Schneider JC. *An examination of follow up services received by vulnerable burn populations: A Burn Model System National Database Study*. American Burn Association Annual Meeting. Boston, MA. [3/22/17]

Bocell F, McMullen K, Johnson K, Wiechman S, Schneider JC, Amtmann D. *Satisfaction with life over time in people with burn injury*. *J Burn Care Res* 2017. American Burn Association Annual Meeting. Boston, MA. [3/24/17]

Chen L, Nguyen BP, Warren KN, Simko LC, Thorpe CR, Lee AF, Shapiro GD, Sheridan RL, Jeng JC, Bessey PQ, Hickerson WL, Kazis LE, Schneider JC, Ryan CM. *Assessing the compatibility of burn databases: Making the case for common data elements*. American Burn Association Annual Meeting. Boston, MA. [3/22/17]

Godleski M, Lee AF, Goverman J, Herndon DN, Suman OE, Kowalske K, Holavanahalli R, Gibran NS, Esselman P, Simko LC, Ryan CM, Schneider JC. *Contracture Severity at hospital*

discharge in adults: A Burn Model System National Database Study. American Burn Association Annual Meeting. Boston, MA. [3/24/17]

Godleski M, Lee AF, Goverman J, Parry I, Herndon DN, Suman OE, Kowalske K, Holavanahalli R, Gibran NS, Esselman P, Simko LC, Ryan CM, Schneider JC. *Contracture Severity at hospital discharge in children: A Burn Model System National Database Study*. American Burn Association Annual Meeting. Boston, MA. [3/24/17]

Kaat AJ, Chen L, Kazis LE, Lee AF, Shapiro GD, Sheridan RL, Ryan CM, Schneider JC. *Building bridges using Shriners Hospitals for Children/American Burn Association Burn Outcome Questionnaires to follow teenagers and young adults across the age spans*. American Burn Association Annual Meeting. Boston, MA. [3/24/17]

Ryan CM, Lee AF, Chen L, Schneider JC, Goverman J, Schulz JT, Chang PH, Friedstat J, Faoro NJ, Sheridan RL, Shapiro GD, Kazis LE. *Associations of adult burn outcome metrics with PROMIS-10: Do condition specific measures add important information?* American Burn Association Annual Meeting. Boston, MA. [3/23/17]

Simko LC, Espinoza LF, Kazis L, McMullen KA, Herndon DN, Suman OE, Kowalske K, Fauerbach J, Wiechman S, Ryan CM, Schneider JC. *Fatigue following burn injury: A Burn Model System National Database Study*. American Burn Association Annual Meeting. Boston, MA. [3/22/17]

Wiechman S, Carrougher G, Fauerbach J, Rosenberg-Cavazos M, Rosenberg L, Meyer W, Herndon D, Schneider JC, Gibran N. *Rates and predictors of depression at 5 and 10 years post-burn injury*. American Burn Association Annual Meeting. Boston, MA. [3/24/17]

American Burn Association Annual Meeting, Boston Poster Presentations

Amtmann D, Bocell FD, McMullen K, Carrougher GJ, Fauerbach J, Gibran NS, Holavanahalli R, Liljenquist K, Meyer W, Ryan CM, Schneider JC. Poster: *The psychometric properties of the Burn Specific Health Scale Brief*. American Burn Association Annual Meeting. Boston, MA. [3/22/17]

Dore EC, Marino M, Ni P, Ryan CM, Schneider JC, Acton A, Kazis LE. Poster: *Developing the LIBRE Profile Short Forms to measure the social impact of burn injuries*. American Burn Association Annual Meeting. Boston, MA. [3/22/17]

Other Conference Platform Presentations

Blauwet CA. *Unique Aspects of the Periodic Health Evaluation for Injury and Illness Prevention in Paralympic Athletes: A Case-Based Discussion*. IOC World Conference: Prevention of Injury & Illness in Sport. Monaco [3/18/17]

Blauwet CA. *Injury prevention in Paralympic athletics – how does impairment type and event type matter?* IOC World Conference: Prevention of Injury & Illness in Sport. Monaco [3/18/17]

Blauwet CA. Panel discussion: *Epidemiology and risk factor assessment for injury prevention in Paralympic Sport – what does the future hold?* IOC World Conference: Prevention of Injury & Illness in Sport. Monaco [3/18/17]

Borg-Stein J. Session Co-Leader. *Sports Ultrasound of Gluteal Pain*. 2017 AMSSM 26th Annual Meeting. San Diego, CA. [5/09/17]

Borg-Stein J. Session Faculty. *Sports Ultrasound of the Groin*. 2017 AMSSM 26th Annual Meeting. San Diego, CA. [5/09/17]

American Medical Society for Sports Medicine Conference 2017

Ramey L, Babu A, Eng C, Borg-Stein J, Kohler M. Poster: *Does Real-Time Ultrasound Feedback During Physical Exam Training Improve Accuracy of Structure Palpation?* 2017 AMSSM 26th Annual Meeting. San Diego, CA. [5/17]

Okafor E, Brodmerkel D, Taylor JA. Poster: *Effects of Hybrid FES Exercise Training on Anaerobic Threshold in SCI*. 2017 AMSSM 26th Annual Meeting. San Diego, CA. [5/17]

West AM, Scarborough DM, McInnis KC, Oh LS. Poster: *Softball Windmill Pitchers: Strength and Motion in the Dominant Versus Non-Dominant Upper and Lower Extremity*. 2017 AMSSM 26th Annual Meeting. San Diego, CA. [5/17]

Other Conference and Course Presentations

Blauwet CA. Poster Session Chair. *RTP & Injury Consequences*. IOC World Conference: Prevention of Injury & Illness in Sport. Monaco [3/18/17]

Bonato P. *Shedding Light on How Humans Walk...with Robots*. Wyss Institute. Boston, MA. [5/24/17]

Carter, C. Lecture: *Treating Disturbances in Behavior and Personality Following Acquired Brain Injury*. Cambridge Medical and Rehabilitation Center, Al Ain UAE/5/1/17, Cambridge Medical and Rehabilitation Center, Abu Dhabi UAE

Carter C. Presentation: *Helping Survivors to Build Their New Normal*. Neurorehabilitation 2017, [6/16/17]

Carter C. Presentation: *Marilyn Price Spivack, Meeting the Evolving Needs of the Caregiver*. Neurorehabilitation 2017, [6/16/17]

Gallegos-Kearin V. *Palliative Care in Rehabilitation Medicine*. HMS Dept of PM&R Grand Rounds. SRH Boston. Charlestown, MA. [5/05/17]

Glenn M B. *Phenol and Botulinum Toxin after Stroke and Neurodegenerative Disease*. Conference: NeuroRehabilitation 2017, Harvard Medical School, Conference Center at Waltham Woods, Waltham, MA [6/16/17]

Glenn MB. *Psychopharmacologic Approaches to Attention, Alertness, and Initiation after Brain Injury*. Conference: NeuroRehabilitation 2017, Harvard Medical School, Conference Center at Waltham Woods, Waltham, MA [6/17/17]

Glenn MB. *Psychopharmacologic Approaches to Affective Disorders and Executive Dysfunction after Brain Injury*. Conference: NeuroRehabilitation 2017, Harvard Medical School, Conference Center at Waltham Woods, Waltham, MA [6/17/17]

Glenn, MB. *Phenol and Botulinum Toxin after Stroke and Neurodegenerative Disease*, at Community Rehab Care, Watertown, MA [6/22/17]

Glenn M, Course Co-Director, NeuroRehabilitation 2017, Harvard Medical School, Conference Center at Waltham Woods, Waltham, MA, [6/15-17, 2017]

Kotler DH. Course Director, Cycling Medicine. Harvard Sports Medicine Course, Boston MA. [4/22/17]

Kotler DH. Course Faculty, Sports Medicine 2017. Harvard Medical School. Boston MA. [4/22/17]

Lee, YT, NeuroRehabilitation Conference 2017, Spatial Neglect. Harvard Medical School, Conference Center at Waltham Woods, Waltham, MA, [6/15-17, 2017]

Leskowitz E. *Integrative Medicine in Sports Performance Enhancement*. Sports, Energy and Consciousness Festival. San Rafael CA. [6/17]

Silver J. *Advancing Women in Medicine: Opportunities for Medical Societies to Lead the Way*, Invited Speaker for the Women's Caucus, American Psychiatric Association 2017 national conference, San Diego, CA

Silver J. *Women in Medicine*, Panelist, Medscape Facebook Live Event. New York, NY

Silver J. *Prehabilitation for Cancer Survivors: Concepts and Evidence for Rehabilitation*. Community. Oncology Alliance, National Harbor, MD

Silver J. *Long-term Survivorship After Cancer Treatment*. Invited Speaker, National Cancer Policy Forum (National Academies), Washington, DC

Silver J. *Cancer Prehabilitation and Continuum of Care*, Royal College Distinguished Lecture, Surgical Prehabilitation to Improve Post-Operative Outcomes. McGill University, Montreal, Canada

Zafonte R. NeuroRehabilitation 2017, Harvard Medical School, Conference Center at Waltham Woods, Waltham, MA, [6/15-17, 2017]

Publications

Bajorek AJ, Slocum C, Goldstein R, Mix J, Niewczyk P, Ryan CM, Hendricks

CT, Zafonte R, Schneider JC. *Impact of Cognition on Burn Inpatient Rehabilitation Outcomes*. PM R. 2017 Jan;9(1):1-7. doi: 10.1016/j.pmrj.2016.06.023. PubMed PMID: 27404335.

Schmidt CT, Ward RE, Suri P, Kiely DK, Pensheng N, Anderson DE, Bean JF. *The Association of Neuromuscular Attributes with Performance-based Mobility among Community-dwelling Older Adults with Symptomatic Lumbar Spinal Stenosis*. Arch Phys Med Rehabil. 2017 Apr 1. pii: S0003-9993(17)30218-6. doi: 10.1016/j.apmr.2017.02.028. [Epub ahead of print] PubMed PMID: 28377110.

Frontera WR, Bean JF, Damiano D, Ehrlich-Jones L, Fried-Oken M, Jette A, Jung R, Lieber RL, Malec JF, Mueller MJ, Ottenbacher KJ, Tansey KE, Thompson A. *Rehabilitation Research at the National Institutes of Health: Moving the Field Forward (Executive Summary)*. Arch Phys Med Rehabil. 2017 Apr;98(4):795-803. doi: 10.1016/j.apmr.2017.02.001. PubMed PMID: 28343477.

Frontera WR, Bean JF, Damiano D, Ehrlich-Jones L, Fried-Oken M, Jette A, Jung R, Lieber RL, Malec JF, Mueller MJ, Ottenbacher KJ, Tansey KE, Thompson A. *Rehabilitation Research at the National Institutes of Health*. Neurorehabil Neural Repair. 2017 Apr;31(4):304-314. doi: 10.1177/1545968317698875. PubMed PMID: 28332437.

Frontera WR, Bean JF, Damiano D, Ehrlich-Jones L, Fried-Oken M, Jette A, Jung R, Lieber RL, Malec JF, Mueller MJ, Ottenbacher KJ, Tansey KE, Thompson A. *Rehabilitation Research at the National Institutes of Health: Moving the Field Forward (Executive Summary)*. Am J Phys Med Rehabil. 2017 Apr;96(4):211-220. doi: 10.1097/PHM.0000000000000700. PubMed PMID: 28301426.

Nawai A, Leveille SG, Shmerling RH, van der Leeuw G, Bean JF. *Pain severity and pharmacologic pain management among community-living older adults: the MOBILIZE Boston study*. Aging Clin Exp Res. 2017 Feb 21. doi: 10.1007/s40520-016-0700-9. [Epub ahead of print] PubMed PMID: 28224474.

Brown LG, Ni M, Schmidt CT, Bean JF. *Evaluation of an Outpatient Rehabilitative Program to Address Mobility Limitations Among Older Adults*. Am J Phys Med Rehabil. 2017 Jan 11. doi: 10.1097/PHM.0000000000000682. [Epub ahead of print] PubMed PMID: 28079616.

Ni M, Brown LG, Lawler D, Bean JF. *Reliability, Validity, and Minimal Detectable Change of Four-Step Stair Climb Power Test in Community-Dwelling Older Adults*. Phys Ther. 2017 Apr 21. doi: 10.1093/ptj/pzx039. [Epub ahead of print] PubMed PMID: 28444350.

Silver JK, Bhatnagar S, Blauwet CA, Zafonte RD, Mazwi NL, Slocum CS, Schneider JC, Tenforde AS. *Female Physicians Are Underrepresented in Recognition Awards from the American Academy of Physical Medicine and Rehabilitation*. PM R. 2017 Mar 21. pii: S1934-1482(16)31042-5. doi: 10.1016/j.pmrj.2017.02.016. [Epub ahead of print] PubMed PMID: 28336430.

Silver JK, Bhatnagar S. *Physician Burnout in Physical Medicine and Rehabilitation (PM&R): Should We Focus More on Psychiatrists' Mission?* Am J Phys Med Rehabil. 2017 Jan 9. doi: 10.1097/PHM.0000000000000674. [Epub ahead of print] PubMed PMID: 28081027.

Blauwet CA, Brook EM, Tenforde AS, Broad E, Hu CH, Abdu-Glass E, Matzkin EG. *Low Energy Availability, Menstrual Dysfunction, and Low Bone Mineral Density in Individuals with a Disability: Implications for the Para Athlete Population*. Sports

Med. 2017 Feb 17. doi: 10.1007/s40279-017-0696-0. [Epub ahead of print] Review. PubMed PMID: 28213754.

Cruz S, Blauwet CA. *Implications of altered autonomic control on sports performance in athletes with spinal cord injury*. Auton Neurosci. 2017 Apr 4. pii: S1566-0702(17)30081-4. doi: 10.1016/j.autneu.2017.03.006. [Epub ahead of print] Review. PubMed PMID: 28457670.

Cajigas I, Koenig A, Severini G, Smith M, Bonato P. *Robot-induced perturbations of human walking reveal a selective generation of motor adaptation*. Sci Robotics. 2017 May 24;2(6):eaam7749. doi: 10.1126/scirobotics.aam7749.

Carvalho GF, Bonato P, Florencio LL, Pinheiro CF, Dach F, Bigal ME, Bevilacqua Grossi D. *Balance Impairments in Different Subgroups of Patients With Migraine*. 2017 Mar;57(3):363-374. doi: 10.1111/head.13009. PubMed PMID: 27991667.

Bowser BJ, Rose WC, McGrath R, Salerno J, Wallace J, Davis IS. *Effect of Footwear on Dynamic Stability during Single-leg Jump Landings*. Int J Sports Med. 2017 Apr 7. doi: 10.1055/s-0043-103090. [Epub ahead of print] PubMed PMID: 28388780.

Davis IS, Rice H, Wearing S. *Why forefoot striking in minimal shoes might positively change the course of running injuries*. J Sport Health Sci. 2017 Mar. http://dx.doi.org/doi doi: 10.1016/j.jshs.2017.03.013.

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Russo C, Souza Carneiro MI, Bolognini N, Fregni F. *Safety Review of*

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Ezquerro F, Moffa AH, Bikson M, Khadka N, Aparicio LV, de Sampaio-Junior B, Fregni F, Bensenor IM, Lotufo PA, Pereira AC, Brunoni AR. *The Influence of Skin Redness on Blinding in Transcranial Direct Current Stimulation Studies: A Crossover Trial.* Neuromodulation. 2017 Apr;20(3):248-255. doi: 10.1111/ner.12527. Epub 2016 Oct 5. PubMed PMID: 27704654.

Chen CF, Bikson M, Chou LW, Shan C, Khadka N, Chen WS, Fregni F. *Higher-order power harmonics of pulsed electrical stimulation modulates corticospinal contribution of peripheral nerve stimulation.* Sci Rep. 2017 Mar 3;7:43619. doi: 10.1038/srep43619. PubMed PMID: 28256638; PubMed Central PMCID: PMC5335254.

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Other Achievements

Blauwet CA. Appointed to United States Olympic Committee (USOC) Board of Directors. Colorado Springs, CO. [1/05/17]

Crandell DM quoted in article: "Catherine Saint Louis. Swimming With a Brand New Leg." *New York Times*. Well Section. March 14, 2017. <https://www.nytimes.com/2017/03/14/well/swimming-with-a-brand-new-leg.html>

Diaz R. Resident Scholarship Award recipient. AMSSM Annual Meeting. San Diego, CA. [3/10/17]

Giacino JT. Recipient, 2017 Robert Moody Prize for Distinguished Initiatives in Brain Injury Research and Rehabilitation. Galveston Brain Injury Conference. University of Texas Medical Branch. Galveston, TX. [5/04/17]

Iaccarino, MA. Recipient, 2017 Louis V. Gerstner Research Scholar Award. Grant to study concussion and ADHD in student athletes.

Paganoni S. Clinician-Scientist Development Three-Year Award in ALS Research. Cosponsored by the American Academy of Neurology, ALS Association, and American Brain Association for Phase 2 Trial of Inosine in ALS Research Project. AAN Annual Meeting. Boston, MA. [4/17]

Silver JK. Outstanding Mentor Award recipient, Partners Medical Education Awards Ceremony. Boston, MA. [Spring, 2017]

Slocum C. Honoree Member, 2017 Disability Policy Consortium's Marie Feltin Award. Boston Center for Independent Living, (Organization Award) [3/24/17], Appointed to American Congress of Rehabilitation Medicine's (ACRM) National Legislation and Policy Committee. [May 2017] Appointed to the International Spinal Cord Society's (ISCoS) Publications Committee. [May 2017], Appointed to Editorial Board for Nature Spinal Cord Cases and Series. [May 2017], Appointed to Massachusetts' Health and Disability Partnership, Massachusetts Department of Public Health. [June 2017]



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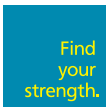
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Michael Phelps at ACSM

Newly appointed to the United States Olympic Committee, Dr. Cheri Blauwet caught up with Olympic Legend Michael Phelps at the American College of Sports Medicine Conference 2017 talking about sports medicine and athlete performance.



Joe Giacino, PhD Awarded Moody Prize

Joe Giacino, PhD, Director, SRN Disorders of Consciousness Program was recognized as the recipient of the 2017 Robert Moody Prize of Distinguished Initiatives in Brain Injury Research and Rehabilitation presented by The University of Texas Medical Branch to honor and recognize individuals who have made significant contributions to the field. Pictured: Dr. Giacino with Betty Protas, Dean of the School of Health Professions at UTMB.



Supporting Wounded Warriors

As part of his work with the Mass General/Red Sox Foundation Home Base Program, Dr. Ross Zafonte connected with former President George W. Bush to speak about ways to continue to support returning veterans suffering from PTSD and TBI, the invisible wounds of war.

Discover more: <http://pmr.hms.harvard.edu>

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