

PM&R CONNECTION



UT Southwestern at the 2017 AAPM&R Annual Assembly

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Message from the Chair

Kathleen Bell, MD

The invasion of pumpkin spice has started! The fall day is beautiful, clear and sunny but in looking over the last three months,

there have been challenges to our friends and colleagues in Houston/South Texas, Florida, Puerto Rico, American Virgin Islands, and California, and violence in Las Vegas that affected us all. As we move into a season of holidays and reuniting with friends, don't forget that many remain homeless or struggling with being unable to work or obtain groceries and medications. If you can, contribute to one of the many charities supporting recovery.

With fall firmly in place, so is the fall meeting season. One special opportunity that presented itself in Dallas was the Phoenix World Burn Congress 2017 at which burn survivors explored research, support, and advocacy. In support of the [North Texas Burn Model System](#) and the historic burn unit at Parkland Hospital, a number of our staff and faculty were volunteering at the Congress while *Dr. Radha Holavanaballi* was a featured presenter. Immediately following was the 2017 An-

nual Assembly of the American Academy of Physical Medicine and Rehabilitation in Denver. Many of our faculty and residents participated as presenters (*Drs. Isabel Chan, Lindsay Ramey, Thiru Annaswamy, Kathleen Bell, Renee Enriquez, Karen Kowalske*), members of the Board (*Dr. Robert Rinaldi*), on Committees, and Leadership Program (*Dr. Clarice Simm*). I was very honored to receive the Frank H. Krusen lifetime achievement award from the AAPMR with my family cheering me on and celebrated with our residents, alumni, and a few lost orphans from San Antonio! (video link at the bottom of p.2 –*Ed*.) Immediately coming up is the American Congress of Rehabilitation Medicine in Atlanta with presentations by *Drs. Jason Smith, Candice Osborne, Eric James and Shannon Juengst*.

To end on a note of caution in moving forward through the end of 2017, it's not clear where health care is headed. It is more crucial than ever for all of us in the PM&R world to be vigilant and quickly responsive to ensure that our patients, many of whom are particularly vulnerable, are included and protected in health care legislation. Don't be shy. Let your representatives and senators know where you stand and what is important (including health care education).

Until next time, enjoy the holidays!

UT Southwestern
Medical Center

Meeting Patient Goals: Donna Ripley Loves to Dance

In addition to being a fun way to stay active, it is a pastime Mrs. Ripley associates dancing with some of the best moments of her life like meeting her future husband Larry at their high school dance, and getting to see “Grease” on their honeymoon.

From the Cupid Shuffle to the Bop, the 58 year-old from Central Texas loves to *move* – a good quality for a couple raising live-stock on their 640-acre ranch. But mobility became increasingly difficult in recent years. Mrs. Ripley began experiencing back pain that neither she nor her doctors could explain. After a year and a half of increasing pain and inconclusive tests, an MRI found a tumor located on the 11th thoracic vertebrae.

“That put a total halt to everything,” Mrs. Ripley said.

She was referred to UT Southwestern for consultation with Dr. Wayne Gluf, a neurosurgeon who specializes in evaluating and treating complex spine disorders. A few weeks later, Mrs. Ripley was admitted for surgery at Zale Lipshy University Hospital for a spinal tumor resection. The complicated surgery resulted in weakness and spasticity in her legs. After a few days in the intensive care unit and the surgical floor, she was admitted to the inpatient rehabilitation unit to work with the team led by Dr. Jennifer Yang.

Mrs. Ripley knew recovery would not be a fast and easy process. She was surprised by how big of an impact the surgery had on her entire body but leaned on her faith and the support of family and the rehabilitation team to help her through. On her first day of physical therapy, Mrs. Ripley was able to take four steps using the parallel bars, and she also used the arm/leg bike. She especially liked to use the Sara Steady, as it helped her transfer better.

The Ripleys appreciated the weekly rehabilitation team conference in the patients’ rooms. “It makes you feel like a part of your own recovery,” Mrs. Ripley said. “Hearing feedback from the entire team was a positive experience. They were all on the same page and each team member had a complete picture of my recovery process.”

When Mrs. Ripley’s physical therapist, Edward Cruz, PT, DPT, asked what she liked to do, she had only one thing to say: dance. Edward promised to incorporate that into her therapy, and he definitely delivered. Before Mrs. Ripley was sent home from rehabilitation, she and her husband were line dancing with the therapy staff.

Back at home, dancing is still a big part of Mrs. Ripley’s regular rehab program. She is continuing to challenge herself by incorporating dances with her walker and moving around obstacles, though she doesn’t mind the ones at home as much as the ones she encountered during inpatient rehab.

“We mostly dance around grandchildren playing with trucks,” she smiled.



RECOGNIZING EXCELLENCE

Eric James, PhD was awarded an NIH K01 Mentored Research Scientist Career Development Award for his project “Testing the Dose-Response of Coordination Training for Older Adults”.

Kavita Trivedi, DO is one of nine finalists in the Leadership Emerging in Academic Departments at UTSW with her presentation of “Optimizing Spine Care at the UTSW Multidisciplinary Spine Clinic”.

Marifel Malacara, PT, DPT was chosen to participate in the UT Southwestern MBA/MS-MSc program, delivered in partnership with the University of Texas at Dallas.

Jennifer Yang, MD was one of seven women honored as Amazing Alumna Achievers in 2017 by the Maryknoll/Miriam College Alumni Association.

Shannon Juengst, PhD received the NIH Clinical Loan Repayment Program award (2017-2019).

Drs. Ankit Patel, Kavita Trivedi & Fatma Gul, were included in the 2017 selection of Best Doctors in Dallas and will be featured in the October issue of *D Magazine*.

PM&R FACULTY PROMOTIONS

Radha Holavanahalli, PhD to Professor

Ankit Patel, MD to Associate Professor

Candice Osborne, PhD to Assistant Professor

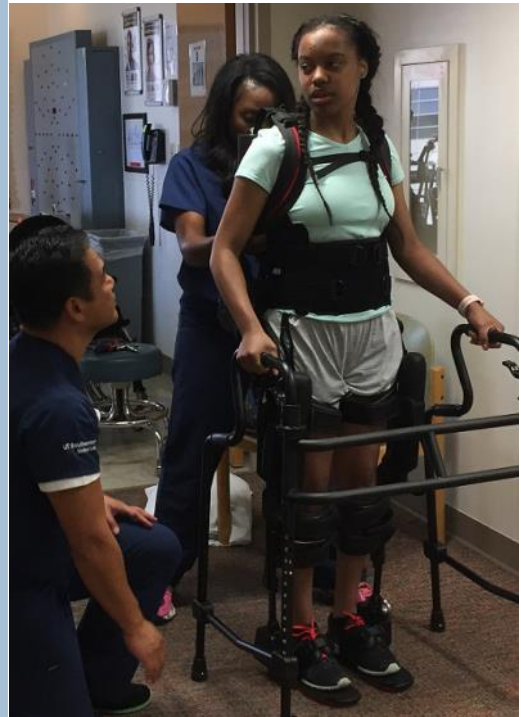


<http://bit.ly/2h2onwo>
Kathleen Bell, MD
featured in the AAPMR
awardees video at 3:33

PM&R: Advancing Recovery through Technology

The UT Southwestern Department of Physical Medicine and Rehabilitation is providing an opportunity to advance recovery from brain and spinal cord injuries through technology. Physical therapists and patients on the Zale Lipshy University Hospital rehabilitation unit and UT Southwestern outpatient Physical Medicine and Rehabilitation are using the Ekso GT, currently the only robotic exoskeleton approved for use in hemiplegia and spinal cord injury. The Ekso GT model in use at UT Southwestern was designed for comprehensive gait therapy as it allows for use with a varied patient population.

The robotic exoskeleton is one of the most sophisticated interventions available today in rehabilitation. “The exoskeleton allows the patient to use their trunk and working limb muscles in normal posture and walking, something not accomplished with standard therapy,” says Dr. Kathleen Bell, Chair of Physical Medicine and Rehabilitation. “It is another step for us in facilitating neurorecovery for our patients.”



Top right: Physical therapists Edward Cruz, PT, DPT, and Jeanne Battles, PT, DPT, NCS use the Ekso GT with patient Kiara Connley, promoting early mobilization, harnessing neuroplasticity and facilitating ideal gait mechanics.

Zale Lipshy Rehabilitation Unit Gains CARF Re-accreditation

UT Southwestern Zale Lipshy Rehabilitation Unit received the highest level of accreditation by the Commission on Accreditation for Rehabilitation Facilities (CARF) in July, 2017. The unit was re-accredited for 3 years as a Comprehensive Integrated Inpatient Rehabilitation Program, and is one of only four facilities in Dallas accredited in the Stroke Specialty Program.

Committed to continuously improving services and serving the community, Dr. Heather Adair describes the rehabilitation experience at UT Southwestern as a way to “Bridge the gap between being in the hospital and being back in your regular life”.

Learn more about Inpatient Rehabilitation at UT Southwestern in a new [video](#) about our program.



<http://bit.ly/2hYUuNh>

New Physical Medicine and Rehabilitation Clinics in Aston and Las Colinas

PM&R has expanded its services with the opening of two new clinics. The new location on the fifth floor of the James W. Aston Ambulatory Care Center expands the neurological rehabilitation service line that includes a Multidisciplinary Concussion Program and Pelvic Floor Dysfunction Team.

Supporting these services at the Aston Clinic are Rehabilitation Psychology, Consult Liaison Psychiatry and Speech Therapy. The Sprague Clinic location continues to house the Spasticity Management Program, Multiple Sclerosis Rehabilitation, and Clinics for Wheelchair Seating Evaluation, Spinal Cord Injury, Electrodiagnosis, Musculoskeletal and General Rehabilitation.

With the opening of the UT Southwestern Medical Center Las Colinas location, the network of community clinics also continues to grow. The Las Colinas Clinic will expand PM&R services including Spine Care, Musculoskeletal and Sports Medicine programs in North Texas.

PM&R Makes a Big Impact in the Treatment of Burn Survivors



Dallas played host to the 29th Annual Phoenix World Burn Congress on October 4-7, 2017. This one of a kind program brings together more than 1,000 burn survivors, their families, medical professionals, and fire service for educational programming, training, support groups and resources each year. The PM&R department and the Parkland Regional Burn Center were well represented: from planning and volunteering, to presentations, workshops, and recruiting burn injury survivors for research studies.

Radha Holavanahalli, PhD and Amy Acton, RN, BSN (Executive Director, Phoenix Society for Burn Survivors) moderated a workshop on *Research, Advocacy, and the Phoenix Society*, which brought together a panel of national experts including Phala Helm, MD and Craig Crandall, PhD. The *Ask the Burn Team Experts* discussion group, led by Parkland surgeon Brett Arnoldo, MD, featured Karen Kowalske, MD as the rehabilitation expert. It was a humbling sight to see the active engagement of our patients turned peer support volunteers. By providing assistance to the organizers, the attendees, and offering peer support to first time burn survivor attendees, their presence made a lasting impact on the people at the program.

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PM&R Dept Awarded Burn Model System (BMS) Grant for the Sixth Time

Principal Investigators Karen Kowalske, MD and Radha Holavanahalli, PhD received a \$1.9 million grant award from the National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR), U.S. Department of Health and Human Services. Established in 1993 in the Department of PM&R, the North Texas Burn Rehabilitation Model System (NTBRMS) has received the grant award every 5 years and continues to be one of four Burn Model Systems centers in the nation.



Top Right: Dr. Radha Holavanahalli, PhD, Adriana Sanchez and Burn Survivor, Shaun Romo, attend The Phoenix Society's World Burn Congress. Bottom Left: The Phoenix Society's World Burn Congress kicked off with a stirring and inspiring 'Walk of Remembrance'. The walk brings together a community of hundreds of burn survivors and their loved ones, burn care professionals, and firefighters gather to pay tribute to the lives lost to burn injuries.

Adaptive Sports Expo a Huge Success



The inaugural UT Southwestern Adaptive Sports EXPO was held on Saturday, October 28, 2017 at the Maverick Activities Center on the University of Texas-Arlington campus. Organized by the UT Southwestern Adaptive Sports Coalition and the Department of PM&R, the EXPO

showcased activities promoting adaptive sports and a healthy, active lifestyle for all individuals in the DFW area. Members of the coalition include local adaptive sports groups such as UT Arlington, UTA Movin' Mavs, Ladies Movin' Mavs, Texas Paralympic Regional Sport, Southwestern Wheelchair Athletic Association, Project Invest, Texas Woman's University, Turning Point, Texas Scottish Rite Hospital, RISE Adaptive Sports and more.

During the free event, 300 participants, families and volunteers were able to watch and participate in about 20 sports such as wheel-

Watch [Dr. Lindsey Ramey's interview](#) on Fox 4 News: <http://bit.ly/2iuj4JF>



chair rugby, rowing, fencing, wheelchair basketball, sitting volleyball, swimming, wheelchair tennis, wheelchair dance, goal ball, adaptive billiards and cycling. The event also featured tables with representatives from local organizations and institutions promoting rehabilitation, exercise, fitness products and services. UTSW PM&R faculty members Dr. Jason Smith (event director) and Dr. Lindsey Ramey (event manager) participated on a healthcare panel. Attendees also had the opportunity to interact with USA national team members and paralympians during the sessions and at an athlete panel.



UT Southwestern PM&R Welcomes New Faculty

Assistant Professor **Amy A. Mathews, MD** earned her medical degree at Baylor College of Medicine, then moved to Chicago for residency training at the Rehabilitation Institute of Chicago and Northwestern Feinberg School of Medicine. She completed a fellowship in Brain Injury Medicine at Baylor College of Medicine and the Texas Institute of Rehabilitation and Research in Houston, Texas.



Dr. Mathews will be serving as a member of the inpatient and consultation service at Parkland Health & Hospital System as well as brain injury and spasticity clinics at Parkland and UT Southwestern. Her clinical focus is on caring for patients recovering from traumatic brain injury and stroke, as well as spasticity management. Outside of work, Dr. Mathews enjoys traveling, musicals, and spending time with family. As a Dallas native, she is very excited to be back and be a part of the UT Southwestern family.

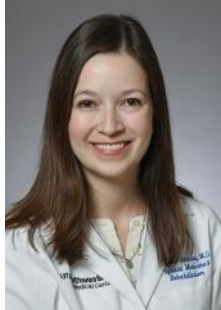
Assistant Professor **Lindsay Ramey, MD** is a sports medicine specialist who believes that “if you have a body, you’re an athlete” and strives to help her patients stay healthy, active and reach their goals. After PM&R residency at Spaulding Rehabilitation Hospital, she completed a Sports Medicine fellowship at the Rehabilitation Institute of Chicago, where she provided care to the Northwestern University Wildcats and the Joffrey Ballet. Her clinical and research interests include diagnostic and interventional ultrasound, dance medicine, bone health and adaptive sports.



Dr. Ramey will be at the PM&R Clinic at UT Southwestern in Las Colinas. In collaboration with the Department of Orthopedics, she looks to develop a sports medicine program in the Las Colinas area as well as working closely with the Adaptive Sports Medicine program.

In her free time, Dr. Ramey enjoys running, hiking and photography. She and her husband also love to try new and delicious restaurants— if you have any recommendations, please let her know!

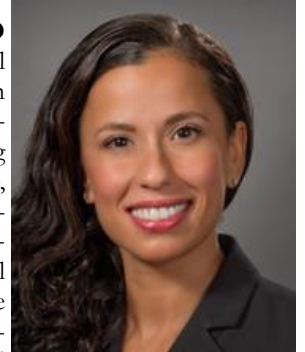
Assistant Professor **Mariana Johnson, MD** was born in Monterrey, Mexico and was raised in Houston. She graduated from Tulane University in New Orleans, and returned to Houston for medical school at Baylor College of Medicine. She completed her residency in PM&R at Northwestern University McGaw Medical Center/Shirley Ryan AbilityLab (formerly Rehabilitation Institute of Chicago).



Dr. Johnson is the attending physician on the general & medically complex inpatient rehabilitation service at Zale Lipshy University Hospital. She will also have an outpatient practice at UTSW PM&R Sprague clinic and see consults at LifeCare of Dallas.

Joining her on the move back south is her husband Brett, who is currently a urology fellow at UTSW. With both of their families in Texas, they’ve been enjoying settling in back home. In her spare time, Dr. Johnson enjoys exploring her Dallas neighborhood, soaking up the warm weather, and trying new recipes.

Assistant Professor **Renee Enriquez, MD** joins us from the Northwell Health Medical System/Hofstra Northwell Medical School in Long Island NY. Her comprehensive approach to pain management includes treating the pain and focusing on patient quality of life, through her practice of outpatient musculoskeletal medicine, diagnostic/therapeutic musculoskeletal ultrasound, and interventional spine care. She received her medical degree at Rutgers - New Jersey Medical School, completed her PM&R Residency at Northwell Health in Long Island NY and fellowship in Interventional Pain Management and Musculoskeletal Medicine at Rutgers/Kessler program in NJ.



Dr. Enriquez is accompanied by her husband, who is a bariatric surgeon in the DFW area and a toddler-aged daughter, Reagan. In her free time, she loves to run and participate in athletic competitions.

Assistant Professor **Shannon Juengst, PhD, CRC** has a MS in Rehabilitation Science (focus on Rehabilitation Counseling) and a certificate in Assistive Technology, from the University of Pittsburgh. She worked as a Certified Rehabilitation Counselor before returning to Pitt for a PhD in Rehabilitation Science in 2012. Her postdoctoral studies with the Department of PM&R involved training in prognostic biomarkers of long-term outcomes after traumatic brain injury and developing a self-reported behavioral and emotional symptom assessment for long-term symptom monitoring that would leverage mobile health technology.



Dr. Juengst moved to Dallas with her husband and two young boys in January, 2017. Her research continues to build upon her past work, further developing her symptom assessment and expertise in mobile health applications for rehabilitation and establishing prognostic biomarkers to inform personalized medicine approaches to long-term clinical management in traumatic brain injury.

Associate Professor **Eric James, PhD** completed an MS in Exercise Science at the University of Houston and a PhD in Motor Control at Penn State University. He has worked as an Associate Professor at the University of Massachusetts Department of Physical Therapy and Assistant Professor at the University of Texas Brownsville Department of Health and Human Performance.



Dr. James research interests include studying the relationship of impaired coordination with mobility limitations, falls, and cognitive decline among older adults. He also studies disparities in mobility limitations among Hispanic older adults. He is currently preparing a clinical trial of coordination training for mobility limited older adults, which is supported by an NIH K01 grant.

Dr. James is also looking forward to exploring ways in which his expertise in motor control can contribute to collaborative research at UT Southwestern. Dr. James enjoys spending time with his family, especially jumping on a trampoline and swimming with his three children.

Faculty and Resident Publications and Courses

PUBLICATIONS

Kocak D, **Annaswamy T**, Chong S, Arora R. Development of systemic inflammatory polyarthritis after zygapophyseal joint injection with Hylan G-F 20 (Synvisc-One®): a case report. *Am J Phys Med Rehabil.* 2017; [Epub ahead of print].

Tian Y, Raghuraman S, **Annaswamy T**, Borresen A, Nahrstedt K, Prabhakaran B. H-TIME: Haptic-enabled Tele-Immersive Musculoskeletal Examination. In Proceedings of MM'17. 2017.

Bahirat K, **Annaswamy T**, Prabhakaran B. Mr.MAPP: Mixed Reality for Managing Phantom Pain. In Proceedings of MM'17. 2017.

Annaswamy TM, Taylor C II. Lumbar Disc Disorders. PM&R Knowledge NOW. <https://now.aapmr.org/lumbar-disc-disorders/> Published 08/18/2017.

Barshikar S, Bell KR. Sleep Disturbances after TBI. In *Current Neurology and Neuroscience Reports.* (Section Ed. Kumar M), Springer, 2017, 17:87. <http://dx.doi.org/10.1007/s11910-017-0792-4>.

Wilmoth K, LoBue C, Clem M, Reddy R, Hynan L, Didehbani N, **Bell K**, Womack K, Hart Jr. J, Batjer H, Cullum M. Consistency of traumatic brain injury reporting in older adults with and without cognitive impairment. *The Clin Neuropsychologist*, 2017; [Epub Ahead of Print].

Hammond FM, Malec JF, Zafonte RD, Sherer M, Bogner J, Dikmen S, Whitney MP, **Bell KR**, Perkins SM, Moser EA. Potential impact of amantadine on aggression in chronic traumatic brain injury. *J Head Trauma Rehabil.* 2017;32(5):308-18.

Wu S, Applewhite AJ, Niezgodza J, Snyder R, Shah J, Cullen B, Schultz G, Harrison J, Hill R, Howell M, Speyrer M, Utra H, **de Leon J**, Lee W, Treadwell T. Oxidized Regenerated Cellulose/Collagen Dressings: Review of Evidence and Recommendations. *Adv Skin Wound Care.* 2017;30(11S Suppl 1):S1-S18.

Gupta S, Andersen C, Black J, **de Leon J**, Fife C, Lantis I, Niezgodza J, Snyder R, Sumpio B, Tettelbach W, Treadwell T, Weir D, Silverman RP. Management of Chronic Wounds: Diagnosis, Preparation, Treatment, and Follow-up. *Wounds.* 2017; 29(9):S19-S36.

Marciniak C, McAllister P, Walker H, Brashear A, Edgley S, Deltombe T, Khatkova S, Banach M, **Gul F**, et al. International AbobotulinumtoxinA Adult Upper Limb Spasticity Study Group. Efficacy and Safety of AbobotulinumtoxinA (Dysport) for the Treatment of Hemiparesis in Adults With Upper Limb Spasticity Previously Treated With Botulinum Toxin: Subanalysis From a Phase 3 Randomized Controlled Trial. *PMR.* 2017. [Epub ahead of print]

Amtmann D, McMullen K, Kim J, Bocell FD, Chung H, et al, **Holavanahalli RK.** (2016). Psychometric properties of the modified 5-D itch scale in a burn model system sample of people with burn injury. *J Burn Care Res.* 2017;38(1):e402-08.

Markos SM, Failla MD, Ritter AC, Dixon CE, Conley YP, Ricker JH, Arenth PM, **Juengst SB**, Wagner AK. Genetic Variation in the Vesicular Monoamine Transporter: Preliminary Associations With Cognitive Outcomes After Severe Traumatic Brain Injury. 2017; 32(2):E24-34.

Juengst SB, Myrnga JM, Fann JR, Wagner AK. Cross-lagged panel analysis of depression and behavioral dysfunction in the first year after moderate-to-severe traumatic brain injury. *J Neuropsychiatry Clin Neurosci.* 2017;29(3):260-266. This article is available from the NARIC collection under Accession Number J76050.

Osborne CL, Meyer WJ 3rd, Ottenbacher KJ, Arcari CM. Burn patients' return to daily activities and participation as defined by the International Classification of Functioning, Disability and Health: A systematic review. 2017; 43(4):700-14.

James EG, Leveille SG, Hausdorff JM, Trivison T, Kennedy DN, et al. Rhythmic Interlimb Coordination Impairments and the Risk for Developing Mobility Limitations. *J Gerontol A Biol Sci Med Sci.* 2017;72(8):1143-1148.

James EG, Leveille SG, Hausdorff JM, Trivison T, Cote S, et al. Rhythmic Interlimb Coordination Impairments Are Associated With Mobility Limitations Among Older Adults. *Exp Aging Res.* 2017;43(4):337-345.

James EG, Conatser P, Karabulut M, Leveille SG, Hausdorff JM, et al. Mobility limitations and fear of falling in non-English speaking older Mexican-Americans. *Ethn Health.* 2017;22(5):480-489.

COURSES AND WORKSHOPS

American Congress of Rehabilitation Medicine, Atlanta, October 2017

Schwartz D, Kalerio C, Modarres M, Nakase-Richardson R, **Bell KR.** Improving recognition and treatment of sleep apnea in the rehabilitation setting to improve outcome.

Niemeier JP, Wagner AK, Hirsch MA, Newman MA, Kumar RG, **Juengst SB**, Treble-Barna A. Enhancing TBI Research Baseline and outcomes measurement with Biomarkers and Biometrics.

Rowe V, Langan J, Neville M, **Osborne C**, Levack W, Dean S. Beyond Acute Care; Promoting Self-Management and Empowering Clients to Live a Fuller Life.

Texas Med*Dent Roundup, San Marcos, October 2017

Nguyen B. Interviewing for Success in the Professional School Admissions Process

American Academy of Physical Medicine and Rehabilitation, Denver, October 2017

Bell KR, Brakke RA (Course Director and Speaker). Bold Leadership Strategies and Tools for Today's Health Care Environment.

Bell KR, Introduction: The Physician as Leaders in the New World of Health Care.

Faculty and Resident Presentations

PLATFORM PRESENTATIONS AND ABSTRACTS

American Headache Society, Boston, June 2017

Lucas S, Dikmen S, **Bell K**, Temkin N, Hoffman J. Headache Trajectories over Five Years After Moderate to Severe Traumatic Brain Injury.

Tejani AS, Middleton E, Hynan L, **Bell K**, Cullum M, Vargas B. Treatment outcomes with Triptans compared to NSAIDs/analgesics or opiate medications in post-concussive patients from the North Texas Concussion Registry (ConTex).

Tejani AS, Hynan L, Middleton E, **Bell K**, Cullum M, Vargas B. Gender differences in post-concussive headache treatment outcomes among patients from the North Texas Concussion Registry (ConTex).

American Academy of Physical Medicine and Rehabilitation, Denver, October 2017

Bell KR, Cao A, **Chan I**, Ifejika N, Ivanhoe C, Verduzco-Gutierrez M. Working Women Across the Generations.

Ramey LN, (Session Director), Binder DS, DaSilva JA. Innovate for Access: An Interactive Tutorial on New Technologies That Can Improve Community Integration and Quality of Life for Your Patients.

Binder DS, Hirani S, **Ramey LN**, Zubcevik N - The Rehabilitation Hackathon! Solving Today's Health Care Problems Through a Novel Interactive, Multidisciplinary, and Solution-Oriented Problem Solving Event.

Rinaldi RJ, Hall-Barrow J, Perry T. TeleRehab: Regulations, Applications, Research in the Virtual World.

American Congress of Rehabilitation Medicine, Atlanta, October 2017

Mark V, Driver S, **Annaswamy TM**. Meeting the Needs of Mentored Research in PM&R Residencies.

James E. Ankle Control Differentiation as a Mechanism for Mobility Limitations

Kumar RG, **Juengst SB**, Dams-O'Connor K, Dahdah M, O'Neil-Pirozzi T, Dikmen S, Felix ER, Hammond F, Wagner AK. Relationship between comorbidities and 1-year outcomes among adults 50 years and older with moderate-to-severe TBI.

American College of Rheumatology/ARHP Annual Meeting, San Diego, November 2017

Nayfe R, Makris U, **Annaswamy TM**. Validating Patient Reported Outcomes in Older Veterans with Chronic Back Pain.

POSTER PRESENTATIONS

American Academy of Physical Medicine and Rehabilitation, Denver, October 2017

Annaswamy TM, Borresen A. Telerehabilitation with Haptics: Result of Usability and Feasibility Study in Patients with Upper Extremity Impairment. PM&R. 2017;9(9S1):S150.

Annaswamy TM, **Patel A**. Therapeutic Options for Recalcitrant Spinal Headache after Cervical Epidural Injection: A Case Report. PM&R. 2017;9(9S1):S268.

Collier CJ. Motor Recovery Following Treatment with Zolpidem in Osmotic Demyelination Syndrome. PM&R. 2017;9(9S1):S255.

Gosai E, **Yang J**. Development of New Heterotopic Ossification 35 Years After Spinal Cord Injury: A Case Report. PM&R. 2017;9(9S1):S235.

Hills A, **Yang J**. An Unusual Presentation of HIV Myelopathy: A Case Report. PM&R. 2017;9(9S1):S191.

American Congress of Rehabilitation Medicine, Atlanta, October 2017

Erler KS, **Juengst SB**, Locascio J, Whiteneck GG, Bogner JA, Kaminski J, Giacino J. The influence of sustained poor health on social participation after traumatic brain injury.

Terhorst L, **Juengst SB**, Magasi S. Development of a standard set of components for measurement curricula.

Juengst SB, Terhorst L, Arenth PM, Wagner AK. Variability in emotional symptoms and fatigue measured via mobile ecological momentary assessment after TBI.

Osborne CL, Kauvar DS. Using the International Classification of Functioning, Disability and Health to Evaluate Peripheral Arterial Disease Patient-Reported Outcome Measures.

Smith JAD, Armacost M, Ensign E, Shaw S, Jimenez N, Liu C. Improved Depression, Anxiety and Quality of Life in Hispanic Immigrants One-Year after Epilepsy Surgery.

INVITED LECTURES

Kathleen Bell, MD was the Keynote Speaker, *Fostering Behavior Change in TBI: Telephone-based Problem Solving*, for the Dr. J. Robert Shaughnessy PM&R Research & Education Day at Spaulding Rehabilitation Hospital in Boston, MA, on June 5, 2017.

Kathleen Bell, MD discussed on *Women in Rehabilitation Research* at the MossRehab 50th anniversary celebration for PM&R residency in Philadelphia, PA, on August 5, 2017.

Jennifer Yang, MD presented an *Introduction to Performing Arts Medicine* at the Department of Rehabilitation Medicine, University of the Philippines College of Medicine/Philippine General Hospital in Manila, Philippines, on September 7, 2017.

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