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- **Medical training Temple University School of Medicine, Philadelphia, Pennsylvania, USA.**
- **Internship and residency at Tulane University, New Orleans, Louisiana, USA.**
- **Fellowship Shoulder/Knee, The Orthopaedic Specialty Hospital, Salt Lake City, Utah, USA.**
- **Harvard Business School Executive Education, Business Innovations in Global Healthcare.**
- **International Advisory Board for Bone and Joint Journal (BJJ), London, U.K.**
- **Editorial Board-American Journal of Sports Medicine, Rosemont, IL, USA.**

### **Regenerative Medicine Activities**

1. Anz, AW, Bapat, A, **Murrell, WD**,. Concepts in regenerative medicine: Past, present, and future in articular cartilage treatment. *J Clin Orthop Trauma*, 2016, JUN.
2. **Murrell, WD**, The Orthobiologic Institute (TOBI)-7<sup>th</sup> Annual PRP and Regenerative Health 2016, [lab faculty], Las Vegas, Nevada, USA, June 2016
3. **Murrell, WD**, American Society for Interventional Pain Physicians-18<sup>th</sup> Annual Meeting, *The Current Landscape of Regenerative Medicine*. [keynote speaker], Dallas, Texas, USA, April 2016
4. **Murrell, WD**, *Evidence of Homologous Use in Cellular Based Therapy in Medical Practice*. United States Food and Drug Administration (FDA), [presentation], White Oak, Maryland, USA, April 2016
5. Centeno CJ, Al-Sayegh H, Freeman MD, Smith J, **Murrell WD**, Bubnov R. *A multi-center analysis of adverse events among two thousand, three hundred and seventy two adult patients undergoing adult autologous stem cell therapy for orthopaedic conditions*. *Int. Orthop.* 2016 Mar 30:1-1.
6. **Murrell, WD**, Women's Health Conference 2016, *Regenerative Medicine to Treat Sports Injuries in Women*. [speaker], Dubai, UAE, March 2016
7. **Murrell, WD**, Schaffer, J. 12<sup>th</sup> Middle-East Orthopaedic Conference, Arab Health 2016, *Shoulder: The Most Important Joint, Roundtable: Innovations, Technology in Shoulder Treatment*. [chairman, moderator, discussion leader], Dubai, UAE, January 2016
8. **Murrell, WD**, *Biologics to Enhance Current Orthopaedic Procedures: Focus Knee, OCD Case Discussions, Office Based Bone Marrow Aspiration for Knee Practice*. 3<sup>rd</sup> Congress of the Indian Cartilage Society 2015, [presentation], Ahmedabad, India, November 2015.
9. **Murrell, WD**, *Platelet Rich Plasma Therapy in MSK Disease: Truth or Myth*. Internal Medicine Review Course 2015, [presentation], Abu Dhabi, UAE, October 2015.
10. **Murrell, WD**, *Regenerative Treatments to Augment Current Orthopaedic Procedures*. 2<sup>nd</sup> UP Orthopaedic Association Trauma Course, [presentation], Lucknow, India, October 2015.
11. **Murrell, WD**, *Cell Based Therapies in Musculoskeletal Medicine*. The Orthobiologic Institute (TOBI)-6<sup>th</sup> Annual PRP and Regenerative Health 2015, [Lab faculty, Event moderator], Las Vegas, USA, June 2015
12. **Murrell, WD**, Anz, AW, Badsha, H, Bennett, WF, Boykin, RE, Caplan, AI. *Regenerative Treatments to Enhance Orthopaedic Surgical Outcome*. *PM&R*, 2015, APR.

13. **Murrell, WD**, Schaffer, J. 11<sup>th</sup> Middle-East Orthopaedic Conference, Arab Health 2015, The Knee from Birth to the Golden Years, *Maintaining Quality and Compliance in Biological Programs*. [chairman, moderator, presentation], Dubai, UAE, January 2015
14. **Murrell, WD**, *Managing Quality and Compliance-Biologics and the Knee*. 8<sup>th</sup> Biennial Conference of OASAC , [presentation], Agra, India, October 2014
15. **Murrell, WD**, Hackel, J. *Office Based Ultrasound Guided Bone Marrow Aspiration; Safe and Effective*. Basic Musculoskeletal Ultrasound Course, [presentation, lab faculty], Andrews Institute, Gulf Breeze, Florida, June 2014
16. **Murrell, WD**, *PRP and Shoulder*, 3<sup>rd</sup> Dubai Shoulder Summit, [presentation], Dubai, UAE, May 2014
17. **Murrell, WD**, *Complications in Clavicle Fractures the Myths, Biologics in Degenerative Knee Conditions*. 2<sup>nd</sup> International Advanced Orthopaedic Congress, [presentation], Dubai, UAE, March 2014
18. **Murrell, WD**, *Stem Cells*. International Cartilage Repair Society (ICRS) Focus Meeting, [moderator], Bologna, Italy, December 2013
19. **Murrell, WD**, *Safe and Compliant Cell Based Therapies in Musculoskeletal Medicine*. The Orthobiologic Institute (TOBI)-4<sup>th</sup> Annual PRP and Regenerative Health 2013, [presentation, moderator], Los Angeles, USA, June 2013
20. **Murrell, WD**. *Treatment of Knee Degenerative Conditions: Combining Classic Skills with Ultra Modern Technology and Treatment: **MEDICINA E CHIRURGIA ORTOPEDICA, Jan-Feb 2013***
21. **Murrell, WD**, *21<sup>st</sup> Century and Beyond: Cutting Edge Biological Treatments in Orthopaedic Sports Medicine: **Arab Health Magazine, November 2012(5); 68-70***
22. **Murrell, WD**, *Current Use of Hyaluronic Acid in Orthopaedic Practice, Emerging Stem Cell Technologies*. 8<sup>th</sup> Middle-East Orthopaedic Conference, Arab Health 2012, Orthopaedics and New Innovations [presentation, moderator], Dubai, UAE, January 2012
23. **Murrell, WD**, *Application of Progenitor Stem Cells for Articular Cartilage Regeneration*, Academic Medical Center Executive Committee, Oct 2011 [presentation], Dubai Healthcare City, Dubai, UAE; UAE Ministry of Health [presentation], Sharjah, UAE, October 2011