

William D. Murrell, Jr., M.D., M.Sc.

Orthopaedic Surgeon Sports Medicine (OSM)

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Suite 300
Bethesda, Maryland 20817 USA

Dr. Humeira Badsha Medical Clinic
Beach Park Plaza
Dubai, United Arab Emirates

Citizenship: United States of America

Residency: United Arab Emirates

Military Service: United States Army Reserve 1997-Present

Rank: Lieutenant Colonel

Health: Very Good

Post Grad Training: The Orthopaedic Specialty Hospital (TOSH)
Rosenberg-Cooley Clinic
Salt Lake City/Park City, UT USA

CURRICULUM VITAE – WILLIAM DELANY MURRELL, JR., M.D.

Sports Medicine Fellowship

Director: Thomas Rosenberg, M.D.

Principals: Vernon Cooley, M.D., Michael Metcalf, M.D.

2002-2003

Tulane University Health Sciences Center (TUHSC)

Tulane Institute of Sports Medicine (TISM)

New Orleans, LA USA

Residency Orthopaedic Surgery

Chairman: Thomas Whitecloud, M.D.

Sports Medicine Director: Michael Brunet, M.D.

Principals: Deryk G. Jones, M.D., Treg Brown, M.D.

1997-2002

Education:

Temple University School of Medicine

Philadelphia, PA

M.D.

1993-1997

University of Tennessee

Knoxville, TN

M.Sc., Synthetic Organic Chemistry

1991-1993

Tuskegee University

Tuskegee Institute, AL

B.S., Chemistry

1989-1991

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|-------------------------|--|
| Professional Education | Harvard Business School Executive Education 2013, Business Innovations in Global Health Care |
| Military Education | <u>Officer Basic Course (RC)</u> July 2003 <u>Medical Management Chemical and Biological Casualty (MMBC)</u> September 2006 <u>Captain Career Course Phase 1 (CCC) (RC)</u> September 2007 |
| Professional Activities | Consultant to AAOS International Committee 2012 AAOS AUC Rotator Cuff Voting Member 2013 |
| Board Status | Board Certified-American Board Orthopaedic Surgeons (ABOS) 2005, expires 2015 ABOS-Subspecialty Certificate Sports Medicine (OSM) 2007, expires 2017 |
| Licensure: | Dubai Healthcare City (DHCC)/Dubai Health Authority (DHA) #112711 September 2008 (inactive) Health Authority Abu Dhabi (HAAD) pending number 2011 New York, #227907 April 2003 California, #84674 September 2003 Maryland, #60932 September 2003 |

CURRICULUM VITAE – WILLIAM DELANY MURRELL, JR., M.D.

PROFESSIONAL EXPERIENCE:

Dr. Humeira Badsha Medical Center

July 2013-Present

Specialist Orthopaedic Sports Medicine

Dubai, UAE

- Bone and Joint Journal (BJJ) International Advisory Board
- American Journal of Sports Medicine Review Board
- Chairman 10th Middle East Orthopaedic Conference, Dubai, UAE

Dubai Bone and Joint Center (DBAJ), LLC

Mohammed Al Maktoum Academic Medical Center (AMC)

November 2008-May 2013

Dubai Healthcare City (DHCC)

Dubai, UAE

- Director Sports Medicine Service
- Journal of Bone and Joint Surgery (Br) International Advisory Board
- American Journal of Sports Medicine Review Board
- Principal Investigator: DBAJ Study-knee articular cartilage regeneration with adjuvant peripheral progenitor cells and hyaluronic acid
- Chairman 9th Middle East Orthopaedic Conference, Dubai, UAE
- American Academy Orthopaedic Surgeons (AAOS), Appropriate Use Criteria (AUC) Voting Member

American Musculoskeletal Wellness Institute, P.C.

September 2003-Present

Bethesda, MD USA

- President

United States Army

September 2007-Present

Washington District Armed Forces Medical Clinic

Washington, District of Columbia

- Senior Medical Officer-Reserve
- Defense Meritorious Service Medal

Columbus Regional Medical Center

October 2007-October2008

Columbus Regional Medical Center

Columbus, Georgia USA

- Director of Sports Medicine
- Team Physician Columbus Lions Arena Football Team

United States Army

February 2007-September 2007

Global War on Terrorism

USAMEDDAC-Ft. Belvoir

DeWitt Army Community Hospital

Ft. Belvoir, VA USA

- Staff Orthopaedic Surgeon
- Clinical Instructor Sports Medicine Fellowship
- Army Commendation Medal with Oak Leaf Cluster

Aberdeen Orthopaedics and Sports Medicine

August 2003-August 2007

Aberdeen, South Dakota USA

- Co Director Avera St. Luke's Sports Medicine Center
 - Created and Managed Comprehensive Sports Medicine Center with Annual Budget of over 3 Million USD
- Team Physician Northern State University

United States Army

March 2006-February 2007

Global War on Terrorism

USAMEDDAC-Ft. Eustis

McDonald Army Community Health Center

CURRICULUM VITAE – WILLIAM DELANY MURRELL, JR., M.D.

Ft. Eustis, VA USA

- Chief Orthopaedic Surgery
- Army Commendation Medal

United States Army

October 2003-February 2004

Operation Enduring Freedom

Camp Bondsteel, Kosovo

- Chief Orthopaedic Surgery and Physical Therapy Clinic.
- Created an action plan for disposition, transport, and treat 70 demobilizing national guard soldiers with musculoskeletal injury sustained in theater prior to returning to CONUS with treatment in Wurzburg, Germany

Wurzburg MEDDAC, Germany

- Orthopaedic Surgeon
- Directly performed 30 reconstructive surgeries over 3 weeks.

The Orthopaedic Specialty Hospital/Rosenberg-Cooley Clinic

Salt Lake City, UT USA

- Sports Medicine Fellow
- US Olympic Teams: Snowboarding, Mogul Skiing, Ski Jumping, and Long-Track Speed-Skating

MEMBERSHIPS:

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|---|------|
| American Academy of Orthopaedic Surgeons-Fellow | 1998 |
| Health Volunteers Overseas | 2000 |
| United States Squash Racquets Association | 2000 |

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| Orthopaedics Overseas- Surgeons Circle | 2004 |
| USA Swimming Sports Medicine and Science Network | 2005 |
| American College of Sports Medicine | 2005 |
| Tulane University 1834 Society | 2005 |
| Conwell Society Temple University | 2006 |
| American Orthopaedic Society Sports Medicine (AOSSM) | 2009 |
| International Society of Arthroscopy, Knee Surgery and Sports Medicine (ISAKOS) | 2009 |
| Dubai Sports Council, Sports Medicine Committee Member | 2009 |
| FIFA-Medical Assessment and Research Centre Medical Network | 2010 |
| European Society Sport and Knee Arthroscopy (ESSKA) | 2011 |
| American Association of Blood Banks (AABB) | 2012 |
| International Society for Quality in Healthcare (ISQua) | 2013 |

PUBLICATIONS AND LECTURES:

1. Rasmussen PG, **Murrell WD**, Ludwick AL: *Synthesis of polystyrene bound tetracyanobimidazole for chelation of toxic heavy metals*: Sigma XI Research Symposium [presentation], Tuskegee, Alabama, April 1991

2. **Baker DC**, Johangir, Murrell WD, Arrowood B, Tagliaferri F: *Synthesis of phenyl, biphenyl, and biphenylcyanoglucopyranosides*: American Chemical Society Annual Meeting, Carbohydrate Division [presentation], San Diego, February 1994. Manuscript Submitted to Journal of Carbohydrate Chemistry
3. **Huntington CF**, Murrell WD, Betz RR, Cole BL, Clements DH, Balsara RK: *Comparison of thoracoscopic and open thoracic discectomies in ovine model for anterior spine fusion*: Temple University School of Medicine, Department of Orthopaedics, Residents Research Day, Shriner's Hospital [presentation] May 1996, International Meeting on Advanced Spinal Technique [poster], Munich, Germany, June 1996 Scoliosis Research Society Annual Meeting [poster], September 1996, and 1997, American Academy of Orthopaedic Surgery Annual Meeting [poster], San Francisco, February 1997. **Spine. 1998 Aug 1;23(15):1699-702.**
4. **Murrell WD**, Wolfe MW, Warren FH: *General principles of pediatric trauma, CH 27 in Review of Orthopaedic Trauma, editor Brinker M, WB Saunders, 2001*
5. **Murrell WD**, Jones, DG,: *Review of pediatric knee sports injuries*, not published 2001
6. **Murrell, WD**, Whitecloud, T, Watson, K, Roesch, W: *Transforaminal Lumbar Interbody Fusion for Degenerative Conditions of the Lumbar Spine*: Spine + Science + Management Meeting [poster], New Orleans, LA, November 2001 Ray Haddad Memorial- Senior Research Day [presentation], New Orleans, LA. June 2002
7. **Murrell, WD**, Budig, D, Pelton, C, *ACL Injury and Prevention*: South Dakota High School Football Coaches Association Meeting [presentation], Aberdeen, SD, May 2004, ASL-CME Lecture [presentation, videoconference], Aberdeen, SD. June 2004
8. **Murrell, WD**, Rosenberg, TD. **Course Director**- Knee Arthroscopy Training Course and Workshop, Central Vietnam Hospital, , Department of Orthopaedics and Plastic Surgery, CVH, Hue, Viet Nam. *Knee Physical Exam, Basic Knee Arthroscopy, Meniscus Repair and Debridement ACL Reconstruction with Hamstring Autograft, Postoperative Rehabilitation after Arthroscopic Knee Procedures*: Knee Arthroscopy Workshop [presentation, instructor]. April -May, 2005
9. **Murrell, WD**, *Recurrent Shoulder Instability following Arthroscopic Bankart Reconstruction*: DBAJ 2nd Annual Physiotherapy Conference [presentation], Dubai, UAE, December 2008, Emirates Airlines Clinic-CME Lecture [presentation], Dubai, UAE, January 2009
10. **Murrell, WD**, *Recurrent Shoulder Instability following Arthroscopic Bankart Reconstruction , Arthroscopic Rotator Cuff Repair*: Arab Health Conference, Sports Medicine Section [presentation, moderator], Dubai, UAE. January 2009

11. **Murrell, WD**, *Evidence Based Medicine in Physiotherapy: 1) History and Physical: Examination Shoulder Disorders; 2) Conservative Treatment of Shoulder Disorders; 3) Operative Treatment of Common Shoulder Disorders*, Gulf Medical University, College of Allied Health, [presentation, faculty], Ajman, UAE. February 2009
12. **Murrell, WD**, Khan, SA, Brodzinski, Z *Injection Workshop: 1) Shoulder and Elbow; 2) Hand and Wrist; 3) Knee*. Rheumatology 2009, [presentation, faculty], Dubai, UAE. March 2009
13. **Murrell, WD, Course Director**-First Dubai Team Physician Course: Prevention, Evaluation, Diagnosis, and Treatment of Athletic Injury. 1) *Preparticipation Physical Exam; 2) Football Injury Evaluation and Treatment; 3) Examination Shoulder Disorders*. Dubai Sports Council, Dubai, UAE, Dubai Sports Council Training Center, Dubai Municipality Club. June 4, 2009
14. **Murrell, WD**, *Evaluation and Management of Athletic Foot and Ankle Injuries: DBAJ CME on Foot and Ankle* [presentation, moderator], Dubai, UAE. June 2009
15. **Murrell, WD**, *Rotator Cuff Tears: Evaluation and Treatment*. Emirates Airlines HQ Clinic-CME Lecture [presentation], Dubai, UAE, August 2009
16. **Murrell, WD**, *Treatment of Common Sports Injuries: 33rd CME Grand Round Harvard Medical School Dubai Center* [presentation], Dubai, UAE, September 2009
17. **Murrell, WD, Course Director**. *Evidence Based Evaluation and Treatment: Patellofemoral Disorders*. Modern Perspectives of Patellofemoral and Shoulder Disease [presentation, moderator, co-course director], Dubai, UAE, December 2009
18. **Murrell, WD**, *Core Stability*. Arab Health Conference 2010, Sports Medicine Hip Injury [presentation, moderator], Dubai, UAE, January 2010
19. **Murrell, WD**, *Acromioclavicular Injuries: Current Concept; Meniscus Injury: Modern Perspective.*, DBAJ Orthopaedic Update-2010, Deira Sheraton-CME Lecture [presentations, program moderator], Dubai, UAE, February 2010
20. **Murrell, WD**, *Motion Analysis Approach to Shoulder Injuries*. Current Concept in Clinical Motion Analysis, Gulf Medical University, College of Allied Health, [presentation, faculty], Ajman, UAE, February 2010
21. **Murrell, WD**, *Evidence Based Treatment of Rotator Cuff Disorders*. Emirates Physiotherapy Congress, Dubai Emirates Tower, [presentation], Dubai, UAE, March 2010
22. **Murrell, WD**, *Modern Concepts Treatment Adhesive Capsulitis. Stiff Elbow*, Arab Health Conference 2011, Minimally Invasive Upper Extremity [presentation], Dubai, UAE, January 2011

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
24. **Murrell, WD**, *ACL Injury*. Dubai Orthopaedic Club Conference, [presentation], Dubai, UAE, October 2011
25. **Murrell, WD**, *Patello-femoral and other irritative conditions of the knee*, Dubai Sheraton Creek, [presentation], Dubai, UAE, December 2011
26. **Murrell, WD**, *Current Use of Hyaluronic Acid in Orthopaedic Practice, Emerging Stem Cell Technologies*. 8th Middle-East Orthopaedic Conference, Arab Health 2012, Orthopaedics and New Innovations [presentation, moderator], Dubai, UAE, January 2012
27. **Murrell, WD**, *Arthroscopy and Sports*. National Conference on Sports Medicine and Rehabilitation, Gulf Medical University, College of Allied Health, [presentation, faculty], Ajman, UAE, February 2012
28. **Murrell, WD**, *Anterior Cruciate Ligament Injury: How do I decide what to do?* **Arab Health Magazine, April 2012(2); 40-42.**
29. **Murrell, WD**, *Anatomic ACL Reconstruction, Double Bundle ACL Reconstruction- Is It Worth It?*. Pan-Africa Orthopaedic Conference 2012, Knee and Sports [presentation, moderator], Johannesburg, South Africa, May 2012
30. **Murrell, WD**, *Arthroscopic Treatment of Prearthritic Knee Lesion: New Frontiers, Total Shoulder Replacement: When the surface is not enough! Enhanced Mobility: Current Concepts in Joint Replacement 2012*, [presentation, moderator], Dubai, UAE, September 2012
31. **Murrell, WD**, *Clinical History and Examination Correlation with Arthroscopic Findings for Shoulder Disorders*, Asian Pacific Orthopaedic Association (APOA) 50th Golden Jubilee 2012, [presentation, panelist], New Delhi, India, October 2012
32. **Murrell, WD**, *21st Century and Beyond: Cutting Edge Biological Treatments in Orthopaedic Sports Medicine*: **Arab Health Magazine, November 2012(5); 68-70**
33. **Murrell, WD**, *Detection of the Surgical Shoulder Lesion, a Comparison Diagnostic Imaging, Functional Testing, and Arthroscopic Findings in One-Hundred Consecutive Cases*, Congress of Arthroscopy and Sports Medicine 2012 (CASM), [presentation], Jaipur, India, November 2012

34. **Murrell, WD.** *Treatment of Knee Degenerative Conditions: Combining Classic Skills with Ultra Modern Technology and Treatment: **MEDICINA E CHIRURGIA ORTOPEDICA, Jan-Feb 2013***
35. **Murrell WD,** Wolfe MW, Warren FH, Epps, H: *General Principles of Pediatric Trauma, CH 29 in Review of Orthopaedic Trauma, editor Brinker M, WB Saunders, 2013*
36. **Murrell, WD,** *Detection of the Surgical Shoulder Lesion, a Comparison Diagnostic Imaging, Functional Testing, and Arthroscopic Findings in One-Hundred Consecutive Cases. 9th Middle-East Orthopaedic Conference, Arab Health 2012, Orthopaedics and New Innovations [Chairman, presentation, moderator], Dubai, UAE, January 2013*
37. **Murrell, WD,** *Safe and Compliant Cell Based Therapies in Musculoskeletal Medicine. The Orthobiologic Institute (TOBI)-4th Annual PRP and Regenerative Health 2012, [presentation, moderator], Los Angeles, USA, June 2013*
38. **Murrell, WD,** *Stem Cells. International Cartilage Repair Society (ICRS) Focus Meeting, [moderator], Bologna, Italy, December 2013*

RESEARCH:

University of Michigan, Department of Chemistry, Ann Arbor, Michigan,

1. Synthesis of polystyrene bound tetracyanobiimidazole for chelation of toxic heavy metals. Dates: Summer 1990

Tuskegee University, Department of Chemistry, Tuskegee Institute, Alabama

1. Synthesis of polystyrene bound tetracyanobiimidazole for chelation of toxic heavy metals. Dates: 1990-1991

University of Tennessee, Department of Chemistry, Knoxville, Tennessee

1. Synthesis, purification, and characterization of biphenylglucopyranosides. Dates: 1992-93

Temple University School of Medicine, Department of Orthopaedic Surgery, Philadelphia, PA

1. Comparison of thoracoscopic vs. open discectomies in ovine model for anterior spine fusion 1994-1997
2. Thoracoscopic placement of Moss-Miami anterior spinal instrumentation in ovine and human cadaver model for correction of scoliosis 1997
3. Fusionless correction of scoliosis in porcine model 1997

Tulane University Medical Center, Department of Orthopaedic Surgery, New Orleans, LA

CURRICULUM VITAE – WILLIAM DELANY MURRELL, JR., M.D.

1. Early follow-up of lumbar degenerative diseases treated with transforaminal lumbar interbody fusion 2001-2002

The Orthopaedic Specialty Hospital, Salt Lake City, Utah

1. Surgeon preferences in arthroscopic shoulder surgery 2002-2003
2. Infection Risk Analysis: 10 Year Report following cementless total knee Arthroplasty 2002-2003

Dubai Bone and Joint Center, Dubai, UAE

1. Prospective randomized study of needling with local anesthetic and hypertonic dextrose solution versus low energy extracorporeal shockwave therapy in treatment of calcific tendonopathy 2009-2010
2. Prospective evaluation of peripheral pleuripotential progenitor cells in the treatment of osteochondral defects of the knee 2011.
3. Prospective study of the treatment of degenerative meniscal tears without mechanical symptoms with HA 2011.
4. Early ARthritis THerapies (EARTH) Phase I Feasibility Study –Multicenter Study-Lead Site University of Pittsburgh, PI-Dr. Constance Chu 2011.
5. Prospective comparison of anatomic single bundle acl reconstruction with anatomic double bundle acl reconstruction 2011.
6. Detection of the surgical shoulder lesion, a comparison diagnostic imaging, functional testing, and arthroscopic findings in one-hundred consecutive cases 2011.
7. Clinical history and examination correlation with arthroscopic findings for shoulder disorders 2011.

HONORS, AWARDS, ACHIEVEMENTS, EXPERIENCE:

St. Johns Military Academy

Gold Academic Star

Delafield, Wisconsin

Northern High School

Tri-County Scholar Athlete Award 1985

Detroit, Michigan

University of Florida

Varsity Football

Gainesville, Florida

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| Tuskegee University Tuskegee Institute, Alabama | National Science Foundation Undergraduate Research Fellowship-University of Michigan 1990 |
| Robert Wood Johnson Pharmaceutical Research Institute Raritan, New Jersey | Research Assistant –Drug Discovery Summer 1991 |
| University of Tennessee Knoxville, Tennessee | General Electric Graduate Fellowship 1991 DuPont Graduate Fellowship 1992 |
| Temple University School of Medicine Philadelphia, Pennsylvania | Honor Board Physiology Honors Program |
| American Cyanamid Princeton, New Jersey | Technical Specialist – Analytical, Physical, and Biochemical Department., Summer of 1994 |
| Tulane Medical Center New Orleans, Louisiana | Tulane Owl Club-Surgery Intern of the Year OREF/OO Traveling Fellowship, Ethiopia 2001 |
| McDonald Army Health Center Ft. Eustis, VA | Army Commendation Medal |
| DeWitt Army Community Hospital Ft. Belvoir, VA | Army Commendation Medal with Oak Leaf Cluster |

CURRICULUM VITAE – WILLIAM DELANY MURRELL, JR., M.D.

Wash District Armed Forces Clinic
Alexandria, VA

Defense Meritorious Service Medal

SKILL DEVELOPMENT:

Clinical Fellowship December 2008

Abu Dhabi Knee and Sports Medicine- Dr. Charles Brown

Abu Dhabi, UAE

Clinical Fellowship May 2009

Abu Dhabi Knee and Sports Medicine- Dr. Charles Brown

Abu Dhabi, UAE

Clinical Fellowship July 2011

Kuala Lumpur Sports Medicine Center- Dr. Saw Khay-Yong

Kuala Lumpur, Malaysia

Clinical Fellowship May 2012

Cape Shoulder Institute- Dr. Joe de Beer

Cape Town, South Africa

OTHER CERTIFICATIONS:

- Private Pilot Certificate Feb 2005
- Instrument Rating Sep 2005

PERSONAL INTERESTS:

Squash, Aviation, Backcountry Snowboarding, Golf, Fishing,
Personal Fitness, Mountain Biking, Computers, and Sailing