GEOFFREY BESSOM HIGGS, M.D.

LICENSE

Virginia: 0101224432, 1999 - Current
Texas: R4716, 2017 - Current
Washington: MD61415655, 4/14/23 - Current
New York: 185861-1, 1991, Prior
Massachusetts: 98-6618-99, 1998, Prior

CURRENT POSITIONS

Founder and CEO of International Orthopaedic Surgery Consultants, LLC. June 16, 2016 to present

Chairman of the Board, Elected July 1, 2020
Fight for the Forgotten
Executive Board Member, May 2018 to present
Austin, Texas

Lieutenant Colonel (LTC)
United States Army Reserve
September 28, 2022 to present

Chief of Orthopaedic Sports Medicine
Prosser Memorial Hospital
August 30, 2023

AMERICAN BOARD OF ORTHOPAEDIC SURGERY CERTIFICATION

Diplomat, The American Board of Orthopaedic Surgery
1997 – 2028
Score: Top 7%

Subspecialty Certification in Sports Medicine
2009 – 2028
Score: Top 7%

POSTGRADUATE TRAINING

Harvard University
Massachusetts General Hospital
Fellowship: **Orthopaedic Sports Medicine**
Boston, Massachusetts
July 1998 – August 1999

Major, United States Army – Active Duty Service Obligation for Medical School Academic Scholarship at Columbia University

Seoul South Korea 1994-1995
Heidelberg Germany 1995-1998
Taszar Hungary 1997

Columbia University
Columbia-Presbyterian Medical Center
Chief - Resident Orthopaedic Surgery (Elected Position)
New York, New York
1993-1994

Columbia University
Columbia-Presbyterian Medical Center
Orthopaedic Surgery Residency
New York, New York
1990-1994

University of California San Diego
Fellowship, Orthopaedic Surgery Research
La Jolla, California
1989-1990

Columbia University
Columbia-Presbyterian Medical Center
Internship in General Surgery
New York, New York
1988-1989

EDUCATION

Columbia University College of Physicians and Surgeons
Doctorate of Medicine
New York, New York
1985-1988

University of Virginia
School of Medicine
Charlottesville, Virginia 1st year of Medical School
1984-1985

University of Virginia
School of Engineering and Applied Science
Bachelor of Science in Systems Engineering
Charlottesville, Virginia
1978-1983

Oxford University - Executive Leadership Programme,
First in Class,

Completed May 2020

UNIVERSITY APPOINTMENTS

Medical College of Virginia
Clinical Assistant Professor of Orthopaedic Surgery
October 1, 2000 - 2017

Harvard University Medical School
Post-Doctoral Fellow in Orthopaedic Surgery
Boston, Massachusetts August 1, 1998 – August 1, 1999

Harvard University Health Services
Staff Orthopaedic Surgeon
Boston, Massachusetts August 1, 1998 – August 1, 1999

Assistant Team Physician Harvard University Athletic Teams
Boston, Massachusetts August 1, 1998 – August 1, 1999

Columbia University, College of Physicians and Surgeons
Post-Doctoral Fellow/Resident in Orthopaedic Surgery
New York, New York 1988-1989, 1990-1994

University of California at San Diego
Post-Doctoral Research Fellow in Orthopaedic Surgery
La Jolla, California 1989-1990

EUROPEAN SHOULDER FELLOWSHIP

Professor, Dr. Med. Habil., Peter Habermeyer, M.D.
ATOS Praxisklinik-Center for Shoulder and Elbow Surgery
Heidelberg, Germany
February 1998

Stephen A. Copeland, F.R.C.S.
President-Elect, European Shoulder and Elbow Society
Consultant Orthopaedic Surgeon
Royal Berkshire Hospital
Reading, England
March/April 1998

PRIOR POSITIONS

Regional Medical Director, Orthonet Inc./Optum
October 19, 2020 to August 22, 2023

Dane Street, LLC
Orthopaedic Surgery and Physical Therapy Physician Reviewer

Austin, Texas, August 2020 – October 2024

MES Solutions, Inc.
Orthopaedic Surgery and Physical Therapy Physician Reviewer
Austin, Texas, November 2020 to present, Richland, Washington

Epriori Health, Inc.
Orthopaedic Surgery and Physical Therapy Physician Reviewer
Austin, Texas, May, 2023 to present, Richland, Washington

Arbicare, LLC
Orthopaedic Surgery and Physical Therapy Physician Reviewer
Austin, Texas, February, 2023 to present, Richland, Washigton

Founder and Director of Sports Medicine and Orthopaedic Surgery
Excel Sports Medicine and Orthopaedic Institute
Plano & Austin, Texas, August 2018 – April 2020

Head Team Physician, Dallas Rattlers
Professional Lacrosse Team
Major League Lacrosse
Dallas, Texas, February 2018 to February 2020

Head Team Physician, EXOS NFL Combine Football Training Program
Frisco, Texas, January 2018 to March 2020

Chief Medical Officer
MedOne Texas
Plano, Texas, April 2018 to August 2018

Director of Orthopaedic Surgery and Sports Medicine
OrthoCare Institute
Plano, Texas, January 2018 to August 2018

Orthopaedic Consultant to United States Figure Skating Association. Plano, Texas, July 2018 to March 2020

Head Team Physician, Dallas Revolution
Professional Arena Football Team
Frisco, Texas, January 2018 to January 2019

Head Team Physician, Dallas Money Team
American Flag Football League

Dallas, Texas 2018 & 2019 Seasons

Team Physician University of Texas at Dallas
Plano, Texas, January 2018 to October 2019

Team Physician Texas Legends
NBA G League Team
Frisco, Texas, October 2018 to October 2019

Consultant Orthopaedic Surgeon and Engineering Expert Witness
Arthrex Inc., Plaintiff vs Arthrosurface and Smith and Nephew Defendant
Patent Infringement and Invalidity case tried in 2nd Federal District Court of Texas
June 16, 2016 – January 15, 2018

Orthopaedic Surgeon Specializing in Sports Medicine, Shoulder Surgery, Knee Surgery and Cartilage Restoration & Co-Director of Sports Medicine and Shoulder at Advanced Orthopaedics,
Richmond, Virginia, 2000 – June 15, 2016

Director of Sports Medicine at Advanced Orthopaedics International Fellowship for Sports Medicine and Joint Replacement
Richmond, Virginia, 2001 – 2007

PROFESSIONAL & COLLEGIATE ATHLETIC TEAMS - TEAM PHYSICIAN EXPERIENCE

Head Team Physician, Dallas Rattlers
Professional Lacrosse Team
Major League Lacrosse
Dallas, Texas, February 2018 to March 2020

Head Team Physician, Dallas Revolution
Professional Arena Football Team
Frisco, Texas, January 2018 to January 2019

Head Team Physician, Dallas Money Team
American Flag Football League
Dallas, Texas 2018 Season to April 2020

Team Physician University of Texas at Dallas
Plano, Texas, January 2018 to April 2020

Team Physician Texas Legends
NBA G League Team
Frisco, Texas, October 2018 to October 2019

Head Team Physician, EXOS NFL Combine Football Training Program
Frisco, Texas, January 2018 to April 2020

United States and Olympic Figure Skating
Consulting Physician
2018 to present
Dallas, Texas

Team Physician, Washington Commanders
National Football League
Preseason training camp team physician
July 2013 – August 2016
Richmond, Virginia

Head Team Physician – Former **Richmond Raiders Professional Arena Football Team**
2011-2013
Richmond, Virginia

Head Team Physician – Former **Richmond Revolution Professional Arena Football Team**
2010
Richmond, Virginia

Head Team Physician – Former **Richmond Bandits Professional Arena Football Team**
2005-2007
Richmond, Virginia

Head Team Physician - Former **Richmond Speed Professional Arena Football Team**
2003-2004
Richmond, Virginia

Board of Directors – **National Football Foundation and College Football Hall of Fame, Inc.**
2002 to 2016
Richmond, Virginia

Head Team Physician – **East Coast Bowl: College Football All Star**

Game
2001 – 2011
Petersburg, Virginia

Team Physician **US Womens Soccer Team**
2007 – 2008

Head Team Physician – Former **Richmond Rhythm** – International Professional Basketball League
2000 – 2001
Richmond, Virginia

New England Patriots
Team Physician
1998 – 1999
Foxboro, Massachusetts

Boston Bruins
Team Physician
1998 – 1999
Boston, Massachusetts

New England Revolution
Team Physician
1998 – 1999
Boston, Massachusetts

All World Taekwondo Team
Head Team Physician
1994 – 1995
Seoul, South Korea

New York Knicks
Stadium Physician
1991 – 1994
New York, New York

New York Rangers
Stadium Physician
1991 – 1994
New York, New York

New York Yankees
Stadium Physician
1991 – 1994

New York, New York

ADDITIONAL TEAM PHYSICIAN Experience

Head Team Physician – Grandview High School
September 2, 2023 to present

Head Team Physician – Virginia High School State Football Championship, Div. III, 2001 – 2008

Head Team Physician – Henrico High School, 2000 – 2016

Head Orthopaedic Surgeon – Highland Springs High School
2007 – present

Head Team Physician – Steward School 2012 - 2016

Head Team Physician – Richmond Lions Rugby Club – 2009 – 2016

Head Team Physician – James River Rugby Club - Men's and Women's Sides – 2009 - 2016

Consultant Physician Benedictine High School 2005 – 2016

Consultant Physician St. Gertrude's High School 2005 – 2013

Consultant Physician Glen Allen High School 2010 – 2016

Consultant Physician New Kent High School 2008 – 2011

Military Career

Lieutenant Colonel United States Army Reserve,
September 22, 2022 to Present

Attending Orthopaedic Surgeon, USA-Heidelberg MEDDAC, Heidelberg, Germany, September 1995-July 1998

Chief, Orthopaedic Surgery, 67th Combat Support Hospital (deployed)-Operation Joint Endeavor, Taszar, Hungary, July/August 1996

Chief, Orthopaedic Surgery Service, 121 General Hospital, Seoul, South Korea, June 1995-August 1995

Assistant Chief, Orthopaedic Surgery Service, 121 General

Hospital, Seoul, Korea, September 1994-May 1995

All-Army Tae Kwan Doe Team Physician, September 1994-1995

Military Awards/Decorations:

Meritorious Service Medal, September 1998
Armed Forces Service Medal, August 1996
Army Commendation Medal, June 1995
National Defense Service Medal
Overseas Service Medal, August 1995
Overseas Service Medal, February 1997
Army Service Medal, August 1994
Military Service Medal, August 1994

United States Army Reserve, December 1984-1994

Commissioned:

Major, United States Army Medical Corps, May 1994
Captain, United States Army Medical Corps, May 1988
2nd LT, United States Army Medical Corps, December 1984

Columbia University-Medical School Academic Scholarship, United States Army, December 1984 – June 1988

HONORS/AWARDS

The Frank E. Stinchfield Award for Excellence in Orthopaedic Surgery. "For the member of the resident staff who has demonstrated special qualities of research excellence in the treatment of musculoskeletal disease." Columbia University, July 1994

The Orren D. Baab Award for Excellence in Orthopaedic Surgery. **"Presented to the member of the senior resident staff who best exemplifies those qualities of academic excellence, clinical proficiency, and capacity for leadership throughout the residency training period."** Columbia University, July 1994

Columbia University-Resident Clinical Research Award/ Grant, June 1994

Best Resident Research Award, Pediatric Orthopaedic Society of New York, May 1994

Finalist, Best Resident Research, New York Academy of Medicine, May 1994

Honorable Mention Residents Paper, New Orleans Orthopaedic Clinic, April 1992

Multiple National, International and Local "Best Physician" Awards, beginning in 2000

Congressional Leadership Award, Honorary Co-Chairman, Physicians Advisory Board, for "Leadership in the area of health care reform", 2001

Who's Who Global, Lifetime Recognition, Top Doctor Award, "In recognition of hard work, dedication, perseverance and for demonstrating leadership and achievement in their occupation, industry or profession"

Commonwealth of Virginia, Access Now Physician Volunteer, "For compassionate and timely charity care generously provided to patients of safety net clinics serving the Greater Richmond Area. Given under my, Governor Robert McDonnell", 2011to 2017

The Leading physicians of the World & the International Association of Orthopaedic Surgeons, Top Orthopaedic Surgeon in Virginia Award, 2011

America's Registry of Outstanding Professionals, Top Doctor Award, "Granted to individuals who have demonstrated leadership and dedication in the profession or industry.", 2001

American Biographical Institute, Man of the Year "Based on outstanding accomplishments to date and the noble example he has set for his peers and the entire community.", 2003

America's Best Physicians, Top Doctor Award, National Consumer Advisory Board, 2015, 2017, 2021

Guide to America's Top Physicians, Top Doctor Award, Consumer Research Council of America, 2004

Emotion, American Academy of Orthopaedic Surgeons, Selected as Exhibiting Artist, 2001

Marque's Who's Who, Top Doctor Award, 2017

Our Health, Best Bedside Manner Awards, Greater Richmond Area, Virginia, Top Doctor in Sports Medicine, 2013

Best in Texas Magazine, Doctor Edition, Top Doctors, Sports Medicine Specialist: 2021, 2022, 2023

Find a Top Doc, Top Orthopaedic Sports Medicine Specialist, Austin, Texas: 2022, 2023

FELLOWSHIP SPORTSMEDICINE ACTIVITIES

Harvard University Athletic Teams
New England Patriots Professional Football Team
Boston Bruins Professional Hockey Team
New England Revolution Professional Soccer Team

RESIDENCY SPORTSMEDICINE ACTIVITIES

Chief, Yankee Stadium Physicians, New York Yankees, 1992-1994

Chief, Madison Square Garden Physicians
New York Knicks, 1992 -1994
New York Rangers, 1992 1994

Surgical Assistant, Summer Institute, American Academy of Orthopaedic Surgeons, Shoulder and Elbow Section, New York, New York, September 8-12, 1993

Hunter Mountain Ski Sports Medicine Clinic, 1990-1994

Captain, NYOH Ski Team, 1990-1994

Captain, NYOH Softball Team, 1990-1993

Metropolitan Athletic Congress, Meet Physician , February 1992-July 1994
Meet Physician -Sprint, Jump, and Run Championship Series, February 1992
Meet Physician -The Coors Invitational Track Meet, New York Road Runner's Club and MAC, May 1992

Meet Physician -New York Games, Pre-Olympic Track and

Field, IAAF Mobile International Grand Prix Circuit, May 1992
Medical Director-Empire State Games, Columbia University Wien Stadium, June 1992
Medical Team Captain-New York City Marathon, 25+ Station, November 1992
Meet Physician -USMA-WestPoint, Coors/Metropolitan Athletic Congress Indoor Championships, Men's and Women's, Masters, February 1993

Basic and Advanced Microsurgical Courses, Columbia University, July 1992

MEDICAL SCHOOL

P&S Rugby Team
Student Medical Society
Medical School Representative to the University of Virginia Student Council
U.S. Army Academic Scholarship
Eastern Rugby Union Championships 1986,1987

COLLEGE

Pi Kappa Alpha Fraternity
Chairman, Founder, American Society of Engineering Management
Judge, Inter-fraternity Judiciary Committee
Sigma Delta Psi-National Honorary Athletic Fraternity
Boxing Champion, University of Virginia, 159-lb Class
Racquetball Champion, University of Virginia
Fellowship of Christian Athletes

HOBBIES

Skiing National Ski Patrol, Racquetball, Mountain biking, Outdoor activities, Sculpting Exhibited Art in San Francisco, Washington D.C., Chicago, New York, Minneapolis, Iowa, Texas and Madrid Spain. Work reproduced in two art books, The New York Times, Several Text Books, Art Calendar, Industry publications and journals. International Osteoporosis Foundation Cover, 2002

SOCIETIES and MEMBERSHIPS

Diplomat, American Board of Orthopaedic Surgeons, 1997 - present
Fellow, American Academy of Orthopaedic Surgeons, 1997 - present
Fellow, American College of Sports Medicine, 2001 - 2010
Fellow, Arthroscopy Association of North America 1999 - present
Fellow, American Orthopaedic Society for Sports Medicine, 1999 - Present

International Society of Arthroscopic, Knee Surgery and Orthopaedic Sports Medicine, 2003 - present
International Cartilage Research Society, 2016 – present
Orthopaedic Research Society, 2016 – present
American Academy of Regenerative Medicine, 2019 – present
Biologic Orthopaedic Society, 2018 - present
SOMOS Society of Military Orthopaedic Surgeons 1994(Intermittently) - present
German-American Medical Society (Deutsch Amerikanische Medizinische Gesellschaft), 1997 - present
38th Parallel Medical Society, November, 1994 – present
Global Who's Who, 2011 – present
Marquis Who's Who 2017 - present
Diplomat, National Board of Medical Examiners, 1989 - present
American Registry of Outstanding Professionals, 2001
International College of Surgeons - Junior Fellow, Elected 1994
New York State Society of Orthopaedic Surgeons, 1993
New York County Medical Society, 1993
Columbia University Medical Alumni Association
University of Virginia Medical Alumni Association
Virginia Orthopaedic Society 2000 - 2016
Richmond Orthopaedic Club, 2000 – 2016
Richmond Academy of Medicine, February 2000 - 2016
Medical Society of Virginia, February 2000 – 2016
John Jones Surgical Society - Columbia University, 1997

ORTHOPAEDIC CONSULTING

Orthopaedic Surgery and Engineering Expert Consultant
Plaintiff Arthrex, Inc. v Defendant Parcus Medical, LLC and Anika Therapeutics, Inc. Case No.:2:22-cv-00019-JLB-NPM
United States Federal District Court for the Middle District of Florida
Fort Myers Division
Hon. John L. Badalamenti
Mag. Nicolas P.Mizell
May, 2022 to present

Conformis, Inc., Plaintiff v Depuy Synthes, Inc., Depuy Synthes Products, Inc. and Depuy Synthes Sales, Inc.
Case: Civil Action No.: 21-640-RGA
United States Federal District Court for the District of Delaware
Law firm: Irella & Manella, LLP
840 Newport Beach
California, 92660
June, 2022 to present

Deposition-Defendant, IPR Patent Case, Orthopedic Fixation Devices
Smith & Nephew and Arthrocare versus Arthrex, Inc.
Case IPR2016-00918, Patent 8,821,541.
United States Federal District Court Eastern District Court of Texas
April 2016 to December 2017

Orthopaedic Surgery and Engineering Expert Consultant
Plaintiff - Orthopaedic Hospital vs Defendants - DJO Global, Inc. and DJO Finance, LLC.
Patent Infringement
United States Federal District Court Southern District of California
Case No. 3:19-cv-00970-JLLS-WVG
October 2020 -present

Orthopaedic Surgery and Engineering Expert Consultant
Patent Infringement and Validity
Plaintiff - Wright Medical Technology Inc. vs Defendant Paragon 28 Inc.
United States Federal District Court for the District of Colorado
October 2018 to present

Orthopaedic Surgeon and Engineering Consultant – Expert Witness
Patent Infringement and Validity for Defendant Medshape vs Plaintiff Cayenne Inc., 2015-2016

Osiris Therapeutics, Inc. Biotechnology Company. Columbia, Maryland. Orthopaedic Consultant 2013-2014

Orthopaedic Surgeon consultant for the articular allograft Cartiform product

Medshape Inc. Atlanta, Georgia. Orthopaedic Consultant and medical device designer, 2010 to present

Arthrosurface Inc. Orthopaedic - Consultant Lecturer, 2011 to present

Zimmer Biomet, Orthopaedic Device Company
Consultant for Patent Infringement, October 2018 to present

Arthrex Inc. Naples, Florida. Orthopaedic Surgeon and Engineering Consultant. 2016 – present

Conmed Corporation. Utica, New York. Orthopaedic Consultant,

2017 to present.

International Life Sciences, LLC (dba, Artelon). Nashville, Tennessee. Orthopaedic Consultant, 2015 to present
Orthopaedic Surgeon consultant and Scientific Investigator for Artelon a synthetic patch for soft tissue repair reinforcement

Applied Biologics, LLC – Orthopaedic Consultant, 2015
Orthopaedic Surgeon consultant for stem cell products

Breg Bracing Inc., Scientific Advisory Board, 2000

Medpanel.com – Orthopaedic Consultant, 2000

ActiveLifeNetwork – Orthopaedic Consultant, 2000

PROFESSIONAL ACTIVITIES 2000 to present

Washington Commanders Team Physician
July 2013 – August 2016

Head Team Physician – Former Richmond Raiders Professional Arena Football Team 2011-2013

Head Team Physician – Former Richmond Revolution Professional Arena Football Team 2010

Consultant Medshape Solutions Inc., Atlanta, Georgia 2010 – present

Head Team Physician – Former Richmond Bandits Professional Arena Football Team 2005-2007

Head Team Physician - Former Richmond Speed Professional Arena Football Team 2003-2004

Co-Director AOC International Sports Medicine and Arthroplasty Fellowship 2001 -2007

Board of Directors – National Football Foundation and College Football Hall of Fame, Inc. 2002

Head Team Physician – East Coast Bowl: College Football All Star Game, 2001 – 2011

Head Team Physician – Virginia High School State Football Championship, Div. III, 2001 – 2008

Head Team Physician – Henrico High School, 2000 – 2016

Head Orthopaedic Surgeon – Highland Springs High School 2007 – present

Head Team Physician – Steward School 2012 - 2016

Head Team Physician – Richmond Lions Rugby Club – 2009 – 2016

Head Team Physician – James River Rugby Club - Men's and Women's Sides – 2009 - 2016

Consultant Physician Benedictine High School 2005 – 2016

Consultant Physician St. Gertrude's High School 2005 – 2013

Consultant Physician Glen Allen High School 2010 – 2016

Consultant Physician New Kent High School 2008 – 2011

Team Physician US Womens Soccer Team 2007 – 2008

Head Team Physician – Former Richmond Rhythm – International Professional Basketball League 2000, 2001

The American Journal of Sports Medicine Article Reviewer, 2002

Chairman, Department of Orthopaedics Henrico Doctors Hospital 2002-2003

Quality Council Committee – Henrico Doctors Hospital, 2002

Operative and Invasive Committee, Health South Medical Center 2000, 2001

Medical Advisory Board, Virginia Medical League 2001

Team Physician – Strawberry Hill Races – Jockeys 2001

Team Physician – Trigon Tennis Professional Tour 2000

Team Physician – Commonwealth Cup Polo Match, 2001

Trigon Healthkeepers Orthopaedic Steering Committee, 2000, 2001

PRESENTATIONS, PUBLICATIONS AND ABSTRACTS

1. An Intra-Operative Technique for Measuring Changes in Spine Contour During Correction of Scoliosis Using Cotrel-Dubousset Instrumentation. Weidenbaum M, **Higgs GB,** Otter M, Ramakrishnan HK, Masiello R, Roye DP, Van Cochren GB, & Farcy JP. North American Spine Society Meeting, New Orleans, Louisiana, February 1990

2. The Effect of Cement Penetration on the Bone-Cement Interface Membrane. Hadjari MH, Reindel E, Kitabayashi L, **Higgs GB,** & Convery FR. Orthopaedic Research Society Meeting, New Orleans, Louisiana, February 1990

3. The Effect of Bone Cement Viscosity and Penetration on the Biomechanics of the Bone-Cement Interface. Reindel ES, **Higgs GB,** & Convery FR. 7th Meeting of the European Society of Biomechanics, Aarhus, Denmark, July 1990

4. A Biomechanical Characterization of High Viscosity Acrylic Bone Cement. Reindel ES, **Higgs GB,** & Convery FR. 1st World Congress of Biomechanics, San Diego, Califomia, August 1990

5. An Intra-Operative Technique for Measuring Changes in Spine Contour During Correction of Scoliosis Using Cotrel-Dubousset Instrumentation. Weidenbaum M, **Higgs GB,** Otter M, Ramakrishnan HK, Masiello R, Roye DP, Van Cochren GB, & Farcy JP. New York and New Jersey Medical Societies, Caribbean, February 1992

6. Superior Mesenteric Artery Syndrome After Segmental Spinal Instrumentation. Vitale MG, **Higgs GB,** Roth N, Liebling M, & Roye DP. Scoliosis Research Society Meeting, Portland, Oregon, September 1992

7. Operative Management of Femoral Fractures in Children. **Higgs GB,** Jelsma RD, & Roye DP (presenter). New York Academy of Medicine with the New York Pediatric Orthopaedic Club, New York, New York, March 15,1993

8. Documentation of Changes in Spine Contour During Correction of Adolescent Idiopathic Scoliosis Using an Intra-Operative Technique. **Higgs GB,** Weidenbaum M, Farcy JP, Otter M, Ramakrishnan HI, Masiello R & Van Cochren GB. The Amerrican Orthopaedic Association 26th Annual

Residents' Conference, Seattle,Washington, March 17-20, 1993

9. Lateral Epicondilitis: A Proposal for Follow up of Extensor Tendon Release Without Reattachment. **Higgs GB,** Mahmud F (presenter), & Rosenwasser M. Grand Rounds at Columbia University, Department of Orthopaedic Surgery, July 1994

10. A Comparison of LumboSacral Spine Fusion with and without Instrumentation. Schwab FJ, **Higgs GB,** Nazarian D, Michelsen CB. The North American Spine Society, Keyston Colorado, 1994.

11. The Treatment of Childhood and Adolescent Femur Fractures with External Fixation. **Higgs GB,** Jelsma RD, & Roye DP. Podium Presentation, American Academy of Orthopaedic Surgeons 61st Annual Meeting, New Orleans, Louisiana, February 24-March 1,1994

12. Total Shoulder Replacement for the Treatment of Primary Glenohumeral Osteoarthritis. Pollock RG, Weinstein DM, **Higgs GB,** Self EB, Flatow EL, & Bigliani LU. Podium Presentation, Tenth Open Meeting of the American Academy of Orthopaedic Surgeons, 61st Annual Meeting, New Orleans, Louisiana, February 24-March 1, 1994

13. The Treatment of Childhood and Adolescent Femur Fractures with External Fixation. **Higgs GB,** Jelsma RD, & Roye DP. Poster Presentation, American Academy of Orthopaedic Surgeons 61st Annual Meeting, New Orleans, Louisiana, February 24-March 1,1994

14. Intra-Operative Determination of Spine Contour Before and After Correction of Idiopathic Scoliosis. **Higgs GB,** Schwab FJ (presenter), Weidenbaum M, Otter M, Ramakrishnan HK, Masiello R, Van Cochran GB & Farcy JPC. The American Orthopaedic Association, 27th Annual Residents' Conference, Atlanta, Georgia, March 23-26, 1994

15. Total Shoulder Replacement for the Treatment of Primary Glenohumeral Osteoarthritis. **Higgs GB,** Weinstein DM, Pollock RG, Self EB, Flatow EL, & Bigliani LU. The American Orthopaedic Association, 27th Annual Residents' Conference, Atlanta, Georgia, March 23-26, 1994

16. The Treatment of Childhood and Adolescent Femur Fractures with External Fixation. **Higgs GB,** Beim GD & Roye DP. European Pediatric Orthopaedic Society, Portugal, April 5-8, 1994

17. Osteoarthritis and Total Shoulder Replacement. **Higgs GB,** Pollock RG, Weinstein DM, Self EB, Flatow EL and Bigliani LU. New York Academy of

Medicine, New York, May 25,1994

18. Spine Contour Changes during Correction of Idiopathic Scoliosis. Higgs **GB,** Schwab FJ, Weidenbaum M and Farcy J-P. Pediatric Orthopaedic Society of New York, New York, May 26, 1994

19. Technological Innovation: The Case of Total Shoulder Replacement for Primary Osteoarthritis of the Shoulder. Vitale MG, Pollock FG, **Higgs GB,** Weinstein DM, Self EB, Gelins A, Dick HM & Flatow EL. Tenth Annual Meeting for the International Society for Technology Assessment, Baltimore Maryland, June 1994.

20. The Effects of Cement Penetration on the Bone-Cement Interface Membrane. Hadjan MH, Reindel E, Kitabayashi L, Higgs GB, Convery FR. Orthopaedic Transactions.

21. An Intra-Operative Technique for Measuring Changes in Spine Contour During Correction of Scoliosis Using Cotrel-Dubousset Instrumentation. Weidenbaum M, Higgs GB, Otter M, Ramakrishnan HK, Masiello R, Roye DP, Van Cochran GB & Farcy JP. Orthopaedic Transactions

22. Intra-Operative Determination of Spine Contour Before and After Correction of Idiopathic Scoliosis. Higgs GB, Schwab FJ, Weidenbaum M, Otter M, Ramakrishnan HK, Masiello R, Van Cochren GB & Farcy JP. Orthopaedic Transactions

23. Documentation of Changes in Spine Contour During Correction of Adolescent Idiopathic Scoliosis Using an Intra-Operative Technique. Weidenbaum M, Higgs GB, Farcy JP, Otter M, Ramakrishnan HI, Masiello R & Van Cochran GB. Submitted for Publication to Spine

24. Total Shoulder Replacement for the Treatment of Primary Glenohumeral Osteoarthritis. Higgs GB, Pollock RG, Weinstein DM, Self EB, Flatow EL & Bigliani LU. Orthopaedic Transactions

25. The Treatment of Childhood and Adolescent Femur Fractures with External Fixation. Higgs GB, Jelsma RD & Roye DP. Orthopaedic Transactions

26. Evaluation and Treatment of Acute Glenohumeral Dislocations. Higgs GB, Weinstein DM & Flatow EL. Sports Medicine and Arthroscopic Review, 1:190-201, Jan. 1993

27. An Intra-Operative Technique for Measuring Changes in Spine Contour During Correction of Scoliosis Using Cotrel-Dubousset Instrumentation. Weidenbaum M,Higgs GB, Otter M, Ramakrishnan HK, Masiello R, Roye

DP, Van Cochran GB and Farcy JPC. Honorable Mention Residents Paper, New Orleans Orthopaedic Clinic, April 1992

28. Review: Anterior Capsulolabral Reconstruction of the Shoulder in Athletes. Rubenstein DL, Jobe FS, Glousman RE, Kitne RS, Pink M and Giangarva. Journal of Shoulder and Elbow Surgery, 1992; 1:229-237. Bone and Joint Diseases: Index and Reviews, March 1993; Vol. 1, No. 6, for Bigliani LU

29. Review: Residual Motion and Function after Glenohumeral or Scapulthoracic Arthrodesis. Harryman DT, Walker ED, Harris SL, Sidles JA, Jackins and Matsen FA. Journal of Shoulder and Elbow Surgery, 1993; 2(6): 2 75-285. Bone and Joint Diseases: Index and Reviews, March 1994; Vol. 2, No. 6 for Bigliani LU

30. External Fixation in the Treatment of Adolescent Femur Fractures. Higgs GB, Jelsma RD, & Roye DP. Submission to JPO

31. Cartilage Regeneration and Repair, Where Are We?: A Review of the Proceedings of the International Cartilage Society's Second International Symposium. Higgs GB and Boland, AL. The Harvard Orthopaedic Journal, July (1): 39-43, 1999

32. The Evaluation and Arthroscopic Treatment of Injuries of the Superior Glenohumeral Labrum. Higgs, GB and Warner JJP. The Harvard Orthopaedic Journal. July (1): 59-61, 1999.

33. Ostearthritis and Chondral Injury in the Young Athlete: Non Operative Treatment Options. Zaslav KR and Higgs GB. The Arthritic Knee CD-ROM; The American Academy of Orthopaedic Surgeons, March 2000.

34. Surgical Shoulder Anatomy. Higgs GB, Fineberg MS and Warner JJP in Surgical Anatomy of the Upper Extremity. Philadelphia: Lippincott, Williams & Wilkins. Knoap D and Doyle JR (eds): Publication Pending 2000/2001.

35. Glenoid Resurfacing in Shoulder Arthroplasty. Higgs GB, Gill T and Warner JJP. In Seminars in Arthroplasty. Williams GR(ed). Publication 2000/2001.

36. Superior Mesenteric Artery Syndrome After Segmental Instrumentation: A Biomechanical Analysis. Vitale MG, Higgs GB, Liebling MS, Roth N and Roye DP. The American Journal of Orthopaedics; 2B(8): 461-467, 1999.

37. Orthopaedic Surgery Session Moderator. 38th Parallel Medical Society Meeting, 44th Annual Meeting, Seoul, South Korea, November 1994

38. The Pediatric Femur Fracture and External Fixation. **Higgs GB,** Jelsma RD, and Roye DP. 5th Annual Asia Pacific Military Medical Conference, New Delhi, India, January 1995

39. Treatment Rationale and Current Concepts in Hyaline Cartilage Injury: A Review of Proceedings of the International Cartilage Repair Society's 2nd Annual Symposium in Boston. Boland AL & **Higgs GB**. Keynote Speaker at the 1999 SICOT Meeting, Sydney Australia, 1999

40. Evaluation and Treatment of Head Injury in the Athlete. Boland AL & **Higgs GB**. American Orthopaedics Society for Sports Medicine Annual Meeting, Traverse City Michigan, 1999

41. Electrothermal Energy in the Treatment of Articular Cartilage. **Higgs GB.** Virginia Orthopaedic Society Annual Meeting, Williamsburg, Virginia, April 2001

42. Superior Labral Tears and Rotator Interval Lesions; Evaluation and Treatment, **Higgs GB.** Norum Buenes, N and Keenan, J., First Annual Caspari Lectureship, Medical College of Virginia, Richmond, Virginia, November 2001

43. Sports Medicine Injury Prevention & Management, and Common Sports Injuries. **HIGGS GB.** Annual Virginia High School Coaches Association Meeting, Norfolk, Virginia July 2002

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    Kathryn E. Smith, PhD[1], Mateo Garcia[1,2], Kadija MacAnuff[1,3], Robert Lamell[1,3], Christopher M. Yakacki, PhD[1], **Geoffrey B. Higgs, MD[5]**, Ken Gall, PhD[1,4]
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63. Patella-Femoral Arthorplasty Cadaveric Teaching Laboratory Lecture and Surgical Technique Instruction for the Orthopaedic Sports Medicine Surgeons and Fellows at University of Virginia Department of Orthopaedic Surgery, October 28, 2015.

64. Arthrex, Inc. vs. Smith & Nephew, Inc. and ArthroCare Corp. United States District Court, Eastern District of Texas, Marshall Division Expert Witness in obtaining a verdict of infringement in favor of Arthrex, Inc. on December 9, 2016.

65. Biomechanical Comparison of a Conventional and Augmented Rotator Cuff Tear Repair. Geoffrey Higgs, MD, Kevin Collon, BS, David Kaimrajh, Edward Milne, Lars Peterson, MD, PhD, Julio Madrid, MD, Marcus Smith, Loren Latta, PhD. Lumin Health OrthoCare, Plano, Texas, Universiy of Miami, Miller School of Medicine, Miami, Florida, Mt. Sinai Medical Center,

Miami Beach & University of Miami, Department of Orthopaeidc Surgery, Miaimi Florida. Presented at the Orthopaedic Research Society Annual Meeting, San Diego, California. March 19–22, 2017.

66. Biomechanical Comparison of Three Augmented Rotator Cuff Repair Techniques. Geoffrey Higgs, MD, Kevin Collon, BS, David David Kaimrajh, Edward Milne, Lars Peterson, MD, PhD, Julio Madrid, MD, Marcus Smith, Loren Latta, PhD. Lumin Health OrthoCare, Plano, Texas, Universiy of Miami, Miller School of Medicine, Miami, Florida, Mt. Sinai Medical Center, Miami Beach & University of Miami, Department of Orthopaeidc Surgery, Miaimi Florida. Presented at the Orthopaedic Research Society Annual Meeting, San Diego, California. March 19–22, 2017.

67. A New Biomechanical Methodology for Evaluating Rotator Cuff Repairs and Measuring Gaps within the Repair Site. Kevin Collon, BS, Geoffrey B. Higgs, MD, David Kaimrajh, Edward Milne, Loren Latta, PhD. Universiy of Miami, Miller School of Medicine, Miami, Lumin Health OrthoCare, Plano, Texas, Florida, Mt. Sinai Medical Center, Miami Beach & University of Miami, Department of Orthopaeidc Surgery, Miaimi Florida. Presented at the Orthopaedic Research Society Annual Meeting, San Diego, California. March 19-22, 2017.

68. Biomechanical Characteristics of Innovative and Standard Rotator Cuff Tear Repair Augmentation Techniques. Geoffrey Higgs, MD, Kevin Collon, BS, David Kaimrajh, Edward Milne, Lars Peterson, MD, PhD, Julio Madrid, MD, Marcus Smith, Loren Latta, PhD. Lumin Health OrthoCare, Plano, Texas, Universiy of Miami, Miller School of Medicine, Miami, Florida, Mt. Sinai Medical Center, Miami Beach & University of Miami, Department of Orthopaeidc Surgery, Miaimi Florida. Presented at the International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine. 11th Biennial Congress. Shanghai, China. June 4-8, 2017.

69. Shape-memory Polymers for Orthopedic Soft Tissue Repair. Kathryn E. Smith, PhD, Mateo Garcia, Kenneth M Dupont PhD, Geoffrey Higgs, MD, Ken Gall, PhD and David L. Safranski, PhD. Techniques in Orthopaedics: 2017, Volume 32, Number 3: 141 – 148.

70. Implantation of a Novel Cryopreserved Viable Osteochondral Allograft for Articular Cartilage Repair in the Knee. C. Thomas Vangsness Jr., MD, Geoffrey Higgs, MD, James K. Hoffman, MS, MD, FAAOS, Jack Farr, MD,

Philip A. Davidson, MD, Farrell Milstein and Sandra Geraghty, PhD. Journal of Knee Surgery. 2018, July; 31(6): 528-535. Published Online July 24, 2017.

71. Clinical use of the Conmed Exoshape Femoral and Tibial Implants for Anterior Cruciate Ligament Reconstruction. Webinar – Principle Instructor. Geoffrey B. Higgs, MD. Naples, Florida. October 18, 2017.

72. Anterior Cruciate Ligament Reconstruction using the Conmed Exoshape System. Instructional Video. Geoffrey B. Higgs, MD. Conmed Corporation, Naples, Florida. October – November, 2017

73. Posterior Cruciate Ligament Reconstruction using the Conmed Exoshape System. Instructional Video. Geoffrey B. Higgs, MD. Conmed Corporation, Naples, Florida. October – November, 2017.

74. Posterior Lateral Corner Reconstruction using the Conmed Exoshape System. Instructional Video. Geoffrey B. Higgs, MD. Conmed Corporation, Naples, Florida. October – November, 2017.

75. Salvaging the Posterior Wall Blowout During Anterior Cruciate Ligament Reconstruction using the Conmed Exoshape System. Geoffrey B. Higgs, MD. Conmed Corporation, October – November, 2017.

76. Instructional Demonstration of the Medshape Eclipse Device in the Shoulder, Knee, Foot & Ankle for Medshape Inc., Mitek Sports Medicine and Brown University. Geoffrey B. Higgs, MD. Providence, Rhode Island. November 9, 2017.

77. Posterior Cruciate Ligament Reconstruction. Webex Director, Conmed Corporation. December 11, 2017, Dallas, Texas.

78. Visiting Professor, Cadaveric Course in Anterior Cruciate Ligament Reconstruction. February 23 -24, 2018. Austin, Texas

79. ACL Reconstruction – When Things Go Bad & On field Recognition and Diagnosis. Major League Lacrosse Medical Conference 2019. Philadelphia, PA. January 10, 2019.

80. Major League Lacrosse Injury Profile and Treatment of the most Common

Injuries. Andrews Institute for Sports Medicine. Plano, Texas. February 11, 2019.

Pending Research

1. Development of a mechanically-active shape-memory polymer fabric for tensioning a theoretically unrepairable tendon to restore normal physiologic properties. Phase 1 supported by a National Science Foundation Grant. Application for Phase 2 submitted to NIH. Second Author.

2. Biomechanical Evaluation of Conventional Rotator Cuff Tear Repair Compared to Artelon Reinforcement Device for Rotator Cuff Tear Repair Augmentation. Lead Author on this investigation performed in conjunction with University of Miami Orthopaedic Laboratory, 2016

3. Prospective Evaluation of Amniotic Stem Cell Application Compared to Conventional Treatment Methodologies for Young Athletic Patients with Early Osteoarthritis of the Knee. Lead Author

4. Arthroscopic Notchplasty and Manipulation Under Anesthesia for Flexion Contracture Associated with Osteoarthritis of the Knee: A Retrospective Review. 2015, Submission and presentation pending.

6. In-vivo Comparative Evaluation of the Artelon Reinforcement Device and the Graft Jacket in a Goat model.

7. A Biomechancical Characterization of a New Soft Tissue Repair Reinforcement Device.

8. A more Accurate Method for Biomechanically evaluating soft tissue reattachment to bone.

9. Review article being prepared for Techniques in Orthopaedics for an issue on “Evolving Materials in Orthopedics.

10. Publication pending in The Journal of the Knee: Implantation of a Novel Cryopreserved Viable Osteochondral Allograft for Articular Cartilage Repair in the Knee

References Available Upon Request