

Houston Lee Braly II, MD

15200 SW. Freeway, Ste. 130
Sugar Land, Texas 77478

NAME: Houston Lee Braly II, MD

PRESENT TITLE:

Assistant Professor, Department of Orthopaedic Surgery
McGovern Medical School, UT Health Science Center at Houston (UTHealth)

WORK ADDRESS:

Fondren Orthopedic Group L.L.P.
15200 SW Freeway, Ste. 130
Sugar Land, TX 77478

UNDERGRADUATE EDUCATION:

Texas A&M University (College Station, TX)
BS, Biomedical Science, magna cum laude, 2006

GRADUATE EDUCATION:

The University of Texas Medical School at Houston (UTMSH)
Doctor of Medicine, 2007-2011

POSTGRADUATE TRAINING:

The University of Texas Medical School at Houston (UTMSH)
Orthopaedic Surgery Residency, 2011-2016

Duke University Medical Center
Adult Reconstructive Orthopaedic Surgery Fellowship, 2016-2017

ACADEMIC & ADMINISTRATIVE APPOINTMENTS:

Assistant Professor, Department of Orthopaedic Surgery
McGovern Medical School, UT Health Science Center at Houston (UTHealth)
2017-Present

HOSPITAL APPOINTMENTS:

Memorial Hermann Orthopedic & Spine Hospital
Memorial Hermann Texas Medical Center
Memorial Hermann Sugar Land Hospital- Medical Director of Joint Center
Memorial Hermann Southwest Hospital
Memorial Hermann Greater Heights Hospital
Memorial Hermann Katy Hospital

LICENSURE:

Texas Medical License (# R2544), Issue Date: 04/20/2017
DEA License, Issue Date: 07/11/2017
Texas Jurisprudence Exam (Pass), 2017

2009 USMLE Step 1 Score, Percentile: 254, 99 (Pass)
2011 USMLE Step 2 CS (Pass)
USMLE Step 2 CK Score, Percentile: 245, 99 (Pass)
2015 USMLE Step 3 Score: 220 (Pass)

CERTIFICATION:

2019 American Board of Orthopedic Surgery Part II (Pass)
2017 American Board of Orthopedic Surgery: Board Eligible
Fellowship Trained in Adult Reconstructive Hip and Knee Surgery
Advanced Cardiac Life Support (ACLS)
Basic Life Support (BLS)
Mako Total Knee Replacement Certification
Oxford Partial Knee Replacement Certification
2016 American Board of Orthopedic Surgery Part I (Pass)

PROFESSIONAL ORGANIZATIONS (AND COMMITTEES OF THESE):

2020 Fellow, American Academy of Orthopedic Surgeons (AAOS)
Fellow, American Association of Hip and Knee Surgeons (AAHKS)
2019 Diplomate, American Board of Orthopedic Surgery
2017 Duke Arthroplasty Club
Piedmont Orthopedic Society

HONORS AND AWARDS:

1998 Eagle Scout
2004 Golden Key International Honor Society
National Society of Collegiate Scholars
2005 National Dean's List

2005	Phi Kappa Phi Honor Society
2006	Distinguished Student, Biomedical Science, Texas A&M University
2007-2009	Course Honors: Surgery, OB/GYN, Gross Anatomy, Developmental Anatomy, Pathology, Introduction to Clinical Applications, Problem Based Learning (PBL)
2015	AOA Emerging Leaders Program Resident Representative
2018	Medical Honoree, Houston Arthritis Foundation
2018	2018 Physician of the Year , Memorial Hermann Orthopedic & Spine Hospital

SERVICE ON THE UNIVERSITY OF TEXAS MEDICAL SCHOOL AT HOUSTON:

2019	Faculty Preceptor, Doctoring 3 Course, McGovern Medical School Clinical preceptorship for 2 nd -year medical students upon introduction to their first patient encounters in the ambulatory setting.
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SERVICE ON UTMSH AFFILIATED HOSPITAL COMMITTEES:

2017-Present	SSI Committee Surgeon Leader, MH Orthopedic & Spine Hospital Monthly meetings with surgical staff and administration to review SSI cases and implement strategies to reduce infection rates.
2018-Present	Medical Director, The Joint Center, Memorial Hermann Sugar Land
2019-Present	Physician Champion, Developing a Pathway for Oxinium Utilization Memorial Hermann Hospital System

SERVICE TO THE COMMUNITY:

2007-2008	AIDS Foundations Houston and UT Houston Medical School Retreat
2002-2006	Mentor- HOSTS Program (Helping Other Students to Succeed)
2018	Houston Arthritis Foundation, Medical Honoree "Braly's Bad to the Bone Team" raised over \$12K (8th largest in US)
2018	Surgeon Volunteer, Operation Walk, El Salvador Mission trip providing joint replacement surgery for patients with disabling arthritis in developing countries
2016, 2018	Episcopal High School Alumni Leadership Day Medical Panelist

- 2018 Community Speaking: “Hip and Knee Pain Overview and Management”
 Missouri City Community Center
 Del Webb Sweetgrass Community
 Bonterra at Cross Creek Ranch Community
 Village at River Oaks Retirement Community
- 2018 Guest Speaker, Great Day Houston’s “Medical Monday”, KHOU Ch 11.
- 2018-2020 Team Physician for Needville High School
- 2019 Community Speaking: “Hip and Knee Pain in Seniors: Treatment Options”
 Brookdale Galleria Senior Living Community
- 2020 Total Joints "Tell All" Facebook Series: “Hip and Knee Pain”

SPONSORSHIP OF POSTDOCTORAL FELLOWS:

- Farhang Alaei, MD (2017-2018)
- Zachary Bryd, MD (2018-2019)
- Robert Holmes, MD (2018-2019)
- Lee Swiderek, MD (2019-2020)
- Alex Boiwka, MD (2019-2020)
- Matthew Hnatow, MD (2020-2021)
- Dexter Bateman, MD (2020-2021)
- Kevin Tran, MD (2020-2021)

CURRENT TEACHING RESPONSIBILITIES:

- 2017-Present Assistant Program Director, Adult Reconstruction Fellowship
 Provide fellow education in the clinic, during surgery, and through
 didactic lectures at the Adult Reconstruction Weekly Conferences
 for UT fellows.
- 10/25/2017- “PJI- Novel versus Conventional Approaches”
 09/25/2019- “PJI- Novel versus Conventional Approaches”
- 2017-Present Assistant Professor, Department of Orthopedic Surgery
- Provide resident education in the clinic, during surgery, and through
 didactic lectures and OITE reviews at the Orthopedic Surgery
 Resident Conferences and skills sessions (PGY1 Arthroplasty

sessions).

10/19//2017- "Adult Reconstruction OITE Resident Review"
07/19/2018- "TKA Complications"
10/18/2018- "Adult Reconstruction OITE Resident Review"
01/31/2018- PGY 1 ABOS Simulation Training, Arthroplasty
01/22/2019- PGY 1 ABOS Simulation Training, Arthroplasty
07/16/2019- PGY 1 ABOS Simulation Training, Arthroplasty
08/13/2019- PGY 1 ABOS Simulation Training, Arthroplasty
10/03/2019- "Adult Reconstruction OITE Resident Review"

MENTORING ACTIVITIES:

2002-2006 Mentor- HOSTS Program (Helping Other Students to Succeed)

CURRENT CLINICAL SERVICE RESPONSIBILITIES:

Adult reconstructive orthopedic surgery and clinic specializing in primary and revision hip and knee arthroplasty as well as general orthopedic surgery.

PUBLICATIONS:

Braly HL; Doherty DB: Conversion THA for Failed Hip Fracture Fixation, in Schwarzkopf RS, ed: *Surgical Insights: Total Hip Arthroplasty* [online course]. Rosemont, IL American Academy of Orthopaedic Surgeons, 2019.

Braly HL, O'Connor DP, Brinker MR. Percutaneous autologous bone marrow injection in the treatment of distal meta-diaphyseal tibial nonunions and delayed unions. *J. Orthop. Trauma.* 27(9): 527-33, Sep 2013.

ABSTRACTS:

Vancouver B2 And B3 Fractures Occur at All Levels of the Femoral Diaphysis Below the Level of Bony Attachment to Cementless Stems. **HL Braly, D Quintana-Rodriguez, SJ Schroder, J Thomas, LE Delgadillo, PC Noble.** Presented at the 2019 Summer Meeting of The Hip Society by PC Noble. September 2019, Kohler, WI.

Malalignment of “Blade-type” Femoral Stems Leads to Dramatic Increases in Cortical Stresses and Interface Micromotion. Eunjoo Hwang; **Houston L. Braly**; Sabir K. Ismaily; Philip C. Noble. Department of Orthopaedic Surgery, University of Texas Health Science Center, Houston, TX.
Submitted: The Journal of Orthopaedic Research.
Orthopaedic Research Society (ORS) 2020 Annual Meeting New Investigator Recognition Award (NIRA) finalist; PODIUM and POSTER presentation.

CURRENT RESEARCH PROJECTS:

The Risk of an Intraoperative Periprosthetic Fracture is Strongly Affected by Femoral Morphology: A Finite Element Study. Journal of Biomechanics. Eunjoo Hwang. Houston Braly, Kenneth Mathis, Shuyang Han, Sabir Ismaily, Philip Noble. Submitted 8.29.2020.

Effects of Misalignment of Blade Stem on Stability of Femur after Implanting. Eunjoo Hwang, Houston Braly, Philip Noble. Department of Orthopaedic Surgery, University of Texas Health Science Center, Houston, TX.

Fixation of a Vancouver B3 Periprosthetic Femoral Fractures Using Traditional Bone Plates and Screws. Biomechanical study. Center for Orthopedic Research, Innovation & Training (CORIT).

Effect of using a UV Disinfection Unit on Airborne Contaminants. Study completed. Manuscript in process. Memorial Hermann Orthopedic & Spine Hospital Operating Rooms.

Optimization of Cementless Fixation and Standardization of Bone Preparation in TKA: Manual Instruments versus the THINK Robotic Milling System. Cadaveric study. Center for Orthopedic Research, Innovation & Training (CORIT).

Biomechanical Analysis of Initial Stability Using Modular Tapered Fluted Titanium Stems in the Treatment of Periprosthetic Femur Fractures. IRB pending approval. Center for Orthopedic Research, Innovation & Training (CORIT).

SPEAKER PRESENTATIONS:

- 04/2018 61st Annual Ed T. Smith Orthopaedic Lectureship (Houston, TX)
 Speaker, “Uni Compartmental Knee- Fixed versus Mobile Bearing”
 Moderator, Periprosthetic Fractures Panel
- 08/2018 Park City Hip & Knee Symposium (Park City, Utah)

- Speaker, "Solving Hip Instability"
 Panel Member: Difficult Cases, "Periprosthetic THA Fracture"
 Speaker, "Periprosthetic Fracture: Now What?"
 Panel Member: Difficult Cases, "TKA Metaphyseal Bone Loss"
- 10/2018 Radiologic Technologist Fall 2018 Seminar, Shriners Hospital- Houston
 Speaker, "How Vital is Proper Imaging for Orthopedic Surgeons?"
- 03/2019 Houston TJA Symposium (Houston, Texas)
 Speaker, "Periprosthetic femur fractures...What now?"
- 08/2019 Park City Hip & Knee Symposium (Park City, Utah)
 Panel Member: Difficult Cases, "Reconstruction of Paprosky 3A
 Acetabular Defects with Column Augments"
 Speaker, "Proximal Periprosthetic Femur Fractures: Tips & Tricks"
 Speaker, "Distal Femur Replacement for Periprosthetic Fractures"
- 11/2020 Park City Hip & Knee Symposium Webinar (via Zoom, Park City, Utah)
 Speaker, "Periprosthetic Fracture of the Hip: Tips and Tricks"
 Speaker, "My Top Five Moves: Hip"
- 12/2020 Park City Hip & Knee Symposium Webinar (via Zoom, Park City, Utah)
 Speaker, "Distal Femur Replacement for Periprosthetic Fractures"

QUALITY IMPROVEMENT PROJECTS

- 2014 Hip Dislocation Protocol, UTMSH
- 2015 Joint Aspiration Medical Power Plan (MPP)
 Implemented in EMR at Memorial Hermann Hospital System
 Presented UT-Houston Orthopaedic Surgery Research Day, 6/2015