

*CURRICULUM VITAE*

**JUAN F. AGUDELO, MD**

**Employment:**

Orthopedic Surgeon, Hip and Knee surgery  
Orthopedic Center of Palm Beach County  
July 2016-Present

Orthopaedic Surgeon, Surgical Unit Medical Director  
Secretary/Treasurer Medical Staff  
Florida Hospital Medical Group  
August 2011-July 2011

Fellow Adult Reconstruction, Clinical Instructor  
University of Colorado, Denver VA, Denver Health Medical Center  
August 2010-July 2011

Resident, Orthopaedic Surgery  
University of Colorado, Denver, Colorado  
June 2005-June 2010

Orthopaedic Trauma Research Fellow, Department of Orthopaedics  
Denver Health Medical Center, University of Colorado,  
Denver, Colorado  
November 2003 – June 2005

Attending Orthopaedic Surgeon  
November 2000-October 2003  
Hospital General de Medellín  
Medellín, Colombia

Orthopaedic Surgeon  
Clínica SOMA  
November 2000-October 2003  
Medellín, Colombia

Orthopaedic Surgery Resident  
Universidad Pontificia Bolivariana  
July 1996-October 2000  
Medellín, Colombia

Health Services Director  
Comfamiliar-Camacol

June 1995-July 1996  
Medellín, Colombia

Emergency Medicine  
Nov 1994-June 1996  
Social Security Institute and Clinica CES  
Medellín, Colombia.

State Health Department  
Medical Rural Social Service  
San Pedro de Urabá,  
Antioquia, Colombia  
July 1993-October 1994

**Education:**

Physician Leadership  
January-October 2015  
Florida Hospital  
Orlando, Florida  
LTG Mark Hertling.

Fellow Adult Reconstruction  
Department of Orthopaedic Surgery, University of Colorado, School of Medicine,  
Denver, Colorado  
Mentor: Michael Dayton, MD.  
August 2010-July 2011

Resident Orthopaedic Surgery  
Department of Orthopaedic Surgery, University of Colorado, School of Medicine,  
Denver, Colorado  
Chairman: Robert D'ambrosia, MD.  
June 2006-June 2010

Internship Orthopaedic Surgery  
Department of Surgery, University of Colorado, Denver, Colorado  
July 2005-June 2006

Postdoctoral Trauma Research Fellowship.  
Department of Orthopaedics  
Denver Health Medical Center  
Denver, Colorado  
Program Director: Wade R. Smith, MD  
Date: Nov 2003-June 2005

Resident Physician Orthopaedic Surgery and Traumatology

Universidad Pontificia Bolivariana  
Medellín, Colombia  
July 1996- October 2000

Medical School

CES University, Health Sciences Institute, CES  
School of Medicine  
Medellín, Colombia  
Title: Medical Doctor, January 1986-Dec 1992

**Faculty Appointments:**

Instructor  
Orthopaedic Surgery  
University of Central Florida  
College of Medicine  
Present

Assistant Professor  
Orthopaedic Surgery  
Department of Orthopaedics  
**Universidad Pontificia Bolivariana**  
Nov. 2000-October 2003

Assistant Professor  
Orthopaedic Surgery  
**Department of Orthopaedics**  
Health Sciences Institute, CES  
Medellín, Colombia  
Nov 2000- October 2003

**Professional Societies:**

- American Academy of Orthopaedic Surgeons
- American Board of Orthopaedic Surgery
- American Association of Hip and Knee Surgeons
- Florida Orthopaedic Society
- Colombian Society of Orthopaedic Surgery and Traumatology (SCCOT) – Associate Member

## **Medical Licensure/Board Certifications:**

American Board of Orthopaedic Surgery, July 25/2013.

Colorado, February 2009.

Florida, August 2010.

## **Honors/Awards:**

### Professional:

#### **AAOS 2007: KAPPA DELTA/OREF AWARD WINNER BEST POSTER IN TRAUMA:**

Poster P474, "Evaluating neutrophil priming using reamer/irrigator/aspirator vs. standard reamer in femur fractures," submitted by Steven J. Morgan, MD; Anad A. Parekh, MRCS; Wade Russel Smith, MD; Allison E. Williams, MD; **Juan Fernando Agudelo**, MD; Ruth Grosskreuz, MD; Philip C. Eckels, BA; Ernest Moore, MD.

**Nominated "Best New Orthopaedic Research Paper": Agudelo JF, Kalb JP.** Low Profile Osteosyntheses for the Treatment of Tibial Pilon Fractures. Annual Meeting, Colombian Society of Orthopaedic Surgery and Traumatology (SCCOT), 2001

**Board Member**, Colomboamerican Medical Association of Central Florida, 2013-Present.

**Unit Medical Director**, Surgical Unit, Florida Hospital East Orlando, 2013- Present

Secretary/Treasurer Medical Staff, Florida Hospital East Orlando, 2016-Present

### Residency:

- Surgical Resident of the month, Denver VA, May 2008.

- **Highest Honors** - Outstanding Clinical Resident, December 2000. Universidad Pontificia Bolivariana, Medellin, Colombia

- Chief Resident 1998-1999, Orthopaedic Surgery, Universidad Pontificia Bolivariana, Medellin, Colombia

### **Public Service:**

State Health Department  
Medical Rural Social Service  
San Pedro de Urabá,  
Antioquia, Colombia  
July 1993-October 1994

### Peer reviewed papers:

1. Early Complications of Primary Total Hip Arthroplasty Using The Anterior Supine Surgical Approach on an Orthopaedic Table. Chengla Yi, **Juan F Agudelo**, Michael Dayton, Steven J Morgan. Orthopedics. 2013 Mar 1;36(3):e276-81.
2. Influence of preoperative 7.5% hypertonic saline on neutrophil activation after reamed intramedullary nailing of femur shaft fractures - a prospective randomized pilot study. **Juan F Agudelo, MD**; Michael A Flierl, MD; Wade R Smith, MD; Ernest E Moore, MD; Allison E Williams, PhD; Philip C Eckels, BS; Steven J Morgan, MD; Philip Stahel, MD. Journal of Orthopaedic Trauma, E-pub September 2011.
3. Botolin S, **Agudelo J**, Dwyer A, Patel V, Burger E. High Rectal Injury During Trans-1 Axial Lumbar Interbody Fusion L5-S1 Fixation: A Case Report. Spine. 2010 Feb 15;35(4):E144-8.
4. Sathy AK, Starr AJ, Smith WR, Elliott A, **Agudelo J**, Reinert CM, Minei JP. The effect of pelvic fracture on mortality after trauma: an analysis of 63,000 trauma patients. J Bone Joint Surg Am. 2009 Dec;91(12):2803-10.
5. Tuttle, Mark S. MD; Smith, Wade R. MD; Williams, Allison E. ND, PhD; **Agudelo, Juan F. MD**; Hartshorn, Cody J. MD; Moore, Ernest E. MD; Morgan, Steven J. MD. Safety and efficacy of damage control external fixation versus early definitive stabilization for femoral shaft fractures in the multiple-injured patient. J Trauma. 2009 Sep;67(3):602-5.
6. Lindeque BG, **Agudelo J**. Incarcerated Tibial Nail. Case Report. Orthopaedics. 2009 Feb;32(2)
7. Parekh AA, Smith WR, Silva S, **Agudelo JF**, Williams AE, Hak D, Morgan SJ. Treatment of distal femur and proximal tibia fractures with external fixation followed by planned conversion to internal fixation. J Trauma. 2008 Mar;64(3):736-9.
8. Morgan SJ, Hurley D, **Agudelo JF**, Meyers T, Lyons R, Parekh A, Smith WR. Retrograde femoral nailing: an understanding of the intercondylar insertion site. J Trauma. 2008 Jan;64(1):151-4.
9. **Agudelo J**, Schürmann M, Stahel P, Helwig P, Morgan SJ, Zechel W, Bahrs C, Parekh A, Ziran B, Williams A, Smith W. Analysis of Efficacy and Failure in Proximal Humerus Fractures Treated With Locking Plates. J Orthop Trauma. 2007 November/December;21(10):676-681
10. Hasenboehler EA, **Agudelo JF**, Morgan SJ, Smith WR, Hak DJ, Stahel PF. Treatment of complex proximal femoral fractures with the proximal femur locking compression plate. Orthopedics. 2007 Aug;30(8):618-23.

11. Ziran BH, Hendi P, Smith W, Westerheide K, **Agudelo JF**. Osseous Healing With Composite of Allograft and Demineralized Bone Matrix: Adverse Effects of Smoking. *Am J Orthop*. 2007;36(4) 207-209.
12. Smith W, Williams A, **Agudelo J**, Shannon M, Stahel P, Moore E. Early predictors of mortality in hemodynamically unstable pelvis fractures. *J Orthop Trauma*. 2007 Jan;21(1):31-7.
13. Smith WR, Ziran BH, **Agudelo JF**, Morgan SJ, Lahti Z, Vanderheiden T, Williams A. Expandable Intramedullary Nailing for Tibial and Femoral Fractures: A Preliminary Analysis of Perioperative Complications. *J Orthop Trauma*. 2006;20(5):310-314.
14. John J. Sandoval, MD, John R. Shank, MD, Steven J. Morgan, MD, **Juan F. Agudelo**, MD, and Connie S. Price, MD. Midfoot Coccidioid Osteomyelitis. A Case Report and Review of the Literature. *J Bone Joint Surg Am* 2006;88 861-865.
15. Morgan SJ, Furry K, Parekh AA, **Agudelo JF**, Smith WR. The deltoid muscle: an anatomic description of the deltoid insertion to the proximal humerus. *J Orthop Trauma*. 2006. Jan;20(1):19-21.
16. Smith WR, Moore EE, Osborn P, **Agudelo JF**, Morgan SJ, Parekh AA, Cothren C. Retroperitoneal packing as a resuscitation technique for hemodynamically unstable patients with pelvic fractures: report of two representative cases and a description of technique. *J Trauma*. 2005 Dec;59(6):1510-4.
17. Morgan, Steven J MD; **Agudelo, Juan F MD**. Retrograde Femoral Nailing for the Treatment of Distal Femoral Fractures. *Techniques in Knee Surgery*. 2005 4(4):248-256.
18. Wade Smith, MD, Paul Shurnas, MD, Steve Morgan, MD, **Juan Agudelo, MD**, Gianna Luszko, MD, Eric C. Knox, BA and Gaia Georgopoulos, MD. Clinical Outcomes of Unstable Pelvic Fractures in Skeletally Immature Patients. *The Journal of Bone and Joint Surgery (Am)*. 2005;87:2423-2431.
19. Ziran BH, Smith WR, Zlotolow DA, Manion C, Grosskreuz R, **Agudelo JF**, Morgan SJ. Clinical evaluation of a true percutaneous technique for antegrade femoral nailing. *Orthopedics*. 2005 Oct;28(10):1182-6.
20. **Agudelo JF**, Morgan SJ, Smith WR. Venous Thromboembolism in Orthopaedic Trauma Patients. *Orthopedics*. 2005 Oct;28(10):1164-71; quiz 1172-3.
21. **Agudelo JF**, Ziran BH, Smith WR, Scalapogna D. Use of a sliding trochanteric osteotomy for supra-cotyloid exposure of posterior-superior acetabular fracture patterns. *Orthopedics*. 2005 Sep;28(9):908-12.

22. Bruce H. Ziran , Wade R. Smith, Marshall L. Balk, Christopher M. Manning and **Juan F. Agudelo**. A True Triceps Splitting Approach for Treatment of Distal Humerus Fractures: A Preliminary Report. J Trauma. 2005 Jan;58(1):70-5.
23. Wade R. Smith, Juan **F. Agudelo**. Damage Control in Orthopaedic Surgery: Fad or fact? Orthopedics. 2004 Nov;27(11):1136, 1154.
24. Ziran BH, Darowish M, Klatt BA, **Agudelo JF**, Smith WR. Intramedullary nailing in open tibia fractures: a comparison of two techniques. Int Orthop. 2004 Aug;28(4):235-8. Epub 2004 May 25.
25. **Agudelo JF**, Kalb JP. Low Profile Osteosyntheses for the Treatment of Tibial Pilon Fractures. Rev Soc Colombiana Ortopedia Traumatología. 2001; Vol 15(3).

### **Book Chapter:**

**Chapter 3: Musculoskeletal Trauma Surgery.** Smith WR, **Agudelo JF**, Parekh AA, Shank JR. Current Diagnosis & Treatment in Orthopaedics, 4th Edition; 2006 pp 81-157.

### **Research Presentations:**

#### **PODIUM PRESENTATION**

Orthopaedic Trauma Association October 2008

**Preoperative hypertonic saline attenuates postoperative neutrophil priming following reamed intramedullary nailing of isolated femur shaft fractures.**

Philip F Stahel, Wade R Smith, **Juan F Agudelo**, Allison E Williams, Ernest E Moore, Philip C Eckels, and Steve J Morgan.

#### **PODIUM PRESENTATION**

Orthopaedic Trauma Association October 2005

**Treatment of Atrophic Long Bone Non-Unions with Human Recombinant Bone Morphogenic Protein-7 (rhBMP-7) in Combination with Autograft or Allograft: Preliminary Results.**

Anand A Parekh MRCS (Eng) , Steven J Morgan MD, Wade R Smith MD, Roy Sanders MD, Bruce H Ziran MD, Kenneth J Koval MD, Allison E Williams ND PhD, **Juan F Agudelo MD**, Christopher T Born MD.

### **PODIUM PRESENTATION**

Orthopaedic Trauma Association October 2005

**Analysis of Efficacy and Failure in Proximal Humerus Fractures Treated with Locking Plates.** J F Agudelo MD, M Schürmann MD, P F Stahel MD, W R Smith MD, P Helwig MD, W Zechel MD, C Bahrs MD, A A Parekh MRCS (Eng), D Spachholz MD, S J Morgan MD.

### **PODIUM PRESENTATION**

Colombian society of Orthopaedic Surgery and Traumatology, Cartagena, Colombia, April 30, 2005.

**Early definitive stabilization versus damage control for femur shaft fractures in the multiply injured patient.** Juan F. Agudelo, MD, Mark S. Tuttle, MD, Wade R. Smith, MD, Cody J. Hartshorn, MD, Steven J. Morgan, MD, Allison Williams ND, PhD and Ernest E. Moore, MD.

Research retreat, Orthopaedic Department, Colorado University, Broomfield, CO, December 2003. **Neutrophil Priming Modification After Ttrauma.**

### **PODIUM PRESENTATION**

Colombian society of Orthopaedic Surgery and Traumatology, Cartagena, Colombia, May 2001.

**Low Profile Osteosyntheses for the Treatment of Tibial Pilon Fractures.** Agudelo JF, Kalb JP.

### **Poster Presentations:**

2012 AAOS Annual Meeting, February 7-11 in San Francisco, CA. **Poster No. P045**  
**Title:** Early Complications of Total Hip Arthroplasty Using The Anterior Supine Approach on the Orthopaedic Table. **Juan F Agudelo**, Michael Dayton, Steven J Morgan.

The American Orthopaedic Association Meeting, Asheville, NC, June 13 – 16, 2007. **Evaluating Neutrophil Priming Using Reamer/Irrigator/Aspirator vs. Standard Reamer in Femur Fractures.** Morgan SJ, Parekh AA, Smith WR, Williams AE, **Agudelo JF**, Grosskreuz RM, Eckels PC, Moore EE.



American Academy of Orthopaedic Surgeons, San Diego, Ca, March 14 – 18, 2007  
**Evaluating neutrophil priming using reamer/irrigator/aspirator vs. standard reamer in femur fractures.** Steven J. Morgan, Anand A. Parekh, Wade Russel Smith, Allison E. Williams, **Juan F. Agudelo**, Ruth Grosskreuz, Philip C. Eckels and Ernest Moore. **WON KAPPA DELTA/OREF (Orthopaedic Research and Education Foundation) AWARD: “BEST POSTER IN TRAUMA”**

Orthopaedic Trauma Association Basic Science Focus Forum, Phoenix, Az, Oct 5 – 7, 2006.

“Pilot Study Evaluating the Efficacy of Reamer/Irrigator/Aspirator (RIA) for Attenuating Polymorphonuclear Priming following Intramedullary Nailing of Femoral Fractures” Morgan SJ, Parekh AA, Smith WR, Williams AE, **Agudelo JF**, Grosskreuz RM, Eckels PC, Moore EE.

Orthopaedic Trauma Association 2005  
Management of Acute Compartment Syndrome: Randomized Clinical Trial Evaluating a Novel Compartment Syndrome Catheter, **J Agudelo MD**, S Morgan MD, A Schmidt MD, W Smith MD, R Odland MD, A Parekh MRCS (Eng), A Williams ND, PhD, Presentation Date: 10 / 2005

Orthopaedic Trauma Association 2005  
Treatment of Distal Femur and Proximal Tibia Fractures with External Fixation followed by Planned Conversion to Internal Fixation, A A Parekh MRCS(Eng), S Silva MD, W R Smith MD, S J Morgan MD, **J F Agudelo MD**, A E Williams ND, PhD, Presentation Date: 10 / 2005

Orthopaedic Trauma Association 2005  
Preliminary Report on the Use of the Reamer-Irrigator-Aspirator System, S J Morgan MD, **J F Agudelo MD**, W R Smith MD, A A Parekh MRCS (Eng), M R Dayton MD, A E Williams ND, PhD.

Western Orthopaedic Association 2005  
Treatment of Atrophic Long Bone Non-Unions with Human Recombinant Bone Morphogenetic Protein-7 (rhBMP-7) in Combination with Autograft or Allograft: Preliminary Results. Wade R. Smith, MD; Steven J. Morgan, MD; Anand A. Parekh, BM, MRCS; Roy Sanders, MD; Christopher Born, MD; **Juan F. Agudelo, MD**

#### **Invited Lectures:**

**“Complications in Total Knee Arthroplasty”**  
University of Colorado, Joint Replacement Orthopaedic Resident Course, August 23, 2014.

**“Preliminary Results Using the Reamer-Irrigator-Aspirator System for the Treatment of Femoral Shaft Fractures”**

Orthopaedic Graduation Day. Department of Orthopaedics, university of Colorado.  
June 2005.

**“New Concepts in Intramedullary Nailing”**

Annual Trauma Meeting, Colombian Society of Orthopaedic Surgery and  
Traumatology March 27, 2002, Medellín, Colombia

**“Treatment of Common Pediatric Fractures”**

Annual Update Course  
Pontificia Bolivariana University  
March, 27, 1999, Medellín, Colombia