

## Curriculum Vitae



Timothy T. Davis MD  
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### **BIRTHDATE**

July 28, 1971

### **BIRTHPLACE**

St. Charles, Missouri

### **UNDERGRADUATE EDUCATION**

School of the Osage, High School, graduated May 1989.  
1989-90 University of Missouri-Kansas City, School of Architecture. Kansas City, Missouri.

### **MEDICAL SCHOOL**

University of Missouri-Kansas City, School of Medicine (six-year program), Kansas City, Missouri.  
Graduated, May 1996, degree: BA/MD

### **POSTGRADUATE TRAINING**

1996-1997          General Surgery, Ochsner Medical Foundation, New Orleans LA  
1997-2000          Physical Medicine and Rehabilitation, UCLA/WLA VA, Los Angeles CA

### **HOSPITAL APPOINTMENTS**

- Saint Johns Health Center, Santa Monica, CA – Active
- Chabert Medical Center, Houma, LA – InActive
- Cedars Sinai Medical Center, Los Angeles, CA – Active
- Huntington Hospital, Pasadena, CA - Active

### **PROFESSIONAL SOCIETY AND AFFILIATIONS**

- American Academy of Physical Medicine and Rehabilitation
- North American Spine Society
- American Academy of Pain Medicine
- American Society of Neurophysiologic Monitoring
- Board of Directors, American Board of Neurophysiologic Monitoring
- Board of Directors, Spalding Surgery Center
- Co-Chair Spine Review Task Force, Cedars Sinai Medical Center

### **LICENSURE AND CERTIFICATIONS**

- Licensed – California State Medical Board
- Licensed – Louisiana State Medical Board
- Diplomat – National Board of Medical Examiners
- Diplomat – American Board of Physical Medicine and Rehabilitation
- Diplomat – American Board of Pain Medicine
- Diplomate – American Board of Neurophysiologic Monitoring

- Fellow – American Academy of Physical Medicine and Rehabilitation
- Supervisor/Operator – Fluoroscopy, State of California
- Qualified Medical Examiner, Industrial Medical Council, State of California

### **PUBLICATIONS**

1. **Davis, T.T.**, Manning, M.R., Jones, D.G.: Abstract: Sub acute Dens Fracture in a Professional Football Player: Case Study. *Medicine and Science in Sports and Exercise*, 6/00.
2. **Davis, T.T.**, Sra, P., Fuller, N., Bae, H.W., Intradiscal Thermal Therapies for Discogenic Low Back Pain: A Review. *Orthop Clin North Am.* 2003 Apr;34(2):255-62, vi.
3. **Davis, T.T.**, Delamarter, R.B., Goldstein, T., IDET Procedure for Chronic Discogenic Low Back Pain. *Spine ISSLS Special Issue.* 2004 Apr 1;29(7):752-6
4. **Davis TT**, Bae HW, Delamarter RB, Rasouli A, King B. Femoral Neurogram to Assess the Course Prior to TransPsoas Spinal Access at the L4-5 Intervertebral Disc Space. Submitted for publication.
5. **Davis TT**, Vatave A, Patla J, Bernbeck J, Delamarter BR, Bae HW. Pedicle Screw Electrical Resistance: Hydroxyapatite Coated versus Non-Coated. Submitted for publication.
6. Bae HW, Kanim L, Gupta N, Kropf M, **Davis TT**, Delamarter RB. Marked improvement in patients treated with vertebroplasty after painful osteoporotic compression fractures. Santa Monica, CA. Submitted for publication.
7. **Davis TT**, Bae HW, Delamarter RB, Rasouli A. The Lumbar Plexus and The TransPsoas Approach to the Intervertebral Disc Space: A Cadavaric Study. Accepted for Publication JBJS.

### **PEER REVIEWED PRESENTATIONS**

1. **Davis, TT**, UCLA Department of PM&R. Center of Mass Analysis in Diabetics with Peripheral Neuropathy and Trans-tibial Amputations. Presented at UCLA PM&R Research Days 5/99.
2. **Davis, TT**, Manning, M.R., Jones, D.G.: Sub acute Dens Fracture in a Professional Football Player: Case Study. Podium Presentation. The American College of Sports Medicine, Indianapolis, Indiana, May 2000.
3. **Davis, TT**, Delamarter RB, Goldstein T. The IDET Procedure for Discogenic Low Back Pain. Podium Presentation, North American Spine Society, Seattle, WA November 2001.
4. **Davis, TT**, Delamarter RB, Goldstein T. The IDET Procedure for Discogenic Low Back Pain. Podium Presentation, American Academy of Orthopaedics Surgeons. Dallas, Texas February 2002.
5. **Davis, TT**, Delamarter RB, Goldstein T. The IDET Procedure for Discogenic Low Back Pain. Podium Presentation, International Society for the Study of the Lumbar Spine. Cleveland, Ohio May 2002.
6. **Davis TT**, Bae HW, Sikorsky M, Fischgrund J. A Phase 1 Safety Study of Intradiscal Osteogenic Protein-1 Injection in Patients with Lumbar Degenerative Disk Disease. Poster Presentation, American Academy of Physical Medicine and Rehabilitation. Boston, Massachusetts. September 27-30, 2007
7. Bae HW, Zao L, Kanim LE, Zhu D, Pradhan B, Wang J, Delamarter RB. Variability Among 10 Production Lots of a Single Demineralized Bone Matrix Product. Podium Presentation by **Davis TT**. Western Orthopaedic Society. Kapalua, Hawaii. July 27, 2008
8. Bae HW, Kim K, Delamarter RB, Babbitz J. Mobi-C Cervical Disc Replacement: Early Results for two centers in the Multicenter FDA Clinical Trial. Podium Presentation by **Davis TT**. Western Orthopaedic Society. Kapalua, Hawaii. July 27, 2008

9. Bae HW, Kanim LEA, Kropf M, Delamarter RB. Radiographic Range of Motion is Related to Clinical Outcomes in Lumbar Artificial Disc Replacement Patients: One Site Analysis of 219 Patients with Minimum 2-year Follow-up USA FDA IDE Study. Podium Presentation by **Davis TT**. North American Spine Society, Spine Across The Sea. Kapalua, Hawaii July, 30 2009
10. **Davis TT**, Bae HW, Delamarter RB, Rasouli A. The Lumbosacral Plexus and The TransPsoas Approach to the Intervertebral Disc Space: A Cadavaric Study. Spine Center Grand Round, Cedars Sinai. Los Angeles, California November 4, 2009
11. **Davis TT**, Bae HW, Delamarter RB, Rasouli A. The Lumbosacral Plexus and The TransPsoas Approach to the Intervertebral Disc Space: A Cadavaric Study. Best Paper Category Podium Presentation. North American Spine Society – Annual Assembly. San Francisco, California. November 12, 2009
12. **Davis TT**, Bae HW, Delamarter RB, Rasouli A, King B. Femoral Neurogram to Assess the Course Prior to TransPsoas Spinal Access at the L4-5 Intervertebral Disc Space. Focused Paper Podium Presentation. North American Spine Society – Annual Assembly. San Francisco, California. November 12, 2009
13. **Davis TT**. The Lumbar Plexus and the Transpsoas Approach, A Neurophysiologic and Anatomic Review. 9<sup>th</sup> Annual Symposium on Current Concepts in Spinal Disorders. Las Vegas, NV. February 5, 2010
14. **Davis TT**, Vatave A, Patla J, Bernbeck J, Delamarter BR, Bae HW. Pedicle Screw Electrical Resistance: Hydroxyapatite Coated versus Non-Coated. Poster Presentation. American Association of Neurological Surgeons. Orlando, Florida. February 17-20, 2010
15. **Davis TT**, Bae HW, Delamarter RB, Rasouli A. The Lumbosacral Plexus and The TransPsoas Approach to the Intervertebral Disc Space: A Cadavaric Study. Podium Presentation. American Academy of Orthopaedic Surgeons, March 9-13, 2010.
16. **Davis TT**, Bae HW, Delamarter RB, Rasouli A, King B. Femoral Neurogram to Assess the Course Prior to TransPsoas Spinal Access at the L4-5 Intervertebral Disc Space. Poster Presentation. American Academy of Orthopaedic Surgeons, March 9, 2010.
17. **Davis TT**, Bae HW, Delamarter RB, Rasouli A. The Lumbosacral Plexus and The TransPsoas Approach to the Intervertebral Disc Space, is there a “Safe Zone”? A Cadavaric Study. Podium Presentation. International Society for Study of the Lumbar Spine. Auckland, New Zealand. April 13, 2010
18. **Davis TT**, Bae HW, Delamarter RB, Rasouli A, King B. Femoral Neurogram to Assess the Course Prior to TransPsoas Spinal Access at the L4-5 Intervertebral Disc Space. Poster Presentation. International Society for Study of the Lumbar Spine. Auckland, New Zealand. April 13-17, 2010
19. Bae HW, Kanim L, Gupta N, Kropf M, **Davis TT**, Delamarter RB. Marked improvement in patients treated with vertebroplasty after painful osteoporotic compression fractures. Santa Monica, CA. Special Poster Presentation. International Society for Study of the Lumbar Spine. Auckland, New Zealand. April 14, 2010
20. **Davis TT**, Bae HW, Delamarter RB, Rasouli A. The Lumbosacral Plexus and The TransPsoas Approach to the Intervertebral Disc Space: A Cadavaric Study. Podium Presentation. Spine Arthroplasty Society. New Orleans, Louisiana. April 27, 2010
21. **Davis TT**, Bae HW, Delamarter RB, Rasouli A, King B. Femoral Neurogram to Assess the Course Prior to TransPsoas Spinal Access at the L4-5 Intervertebral Disc Space. Poster Presentation. Spine Arthroplasty Society. New Orleans, Louisiana. April 27-May 1, 2010
22. **Davis TT**, Vatave A, Patla J, Bernbeck J, Delamarter BR, Bae HW. Pedicle Screw Electrical Resistance: Hydroxyapatite Coated versus Non-Coated. Poster Presentation. Spine Arthroplasty Society. New Orleans, Louisiana. April 27-May 1, 2010

23. Bae HW, Kanim L, Gupta N, Kropf M, **Davis TT**, Delamarter RB. Marked improvement in patients treated with vertebroplasty after painful osteoporotic compression fractures. Santa Monica, CA. Special Poster Presentation. International Society for Study of the Lumbar Spine. New Orleans, Louisiana. April 28, 2010
24. **Davis TT**, Vatave A, Patla J, Bernbeck J, Delamarter BR, Bae HW. Pedicle Screw Electrical Resistance: Hydroxyapatite Coated versus Non-Coated. Poster Presentation. American Association of Neurological Surgeons. Philadelphia, Pennsylvania. May 1-5, 2010
25. **Davis TT**, Bae HW, Delamarter RB, Rasouli A, King B. Femoral Neurogram to Assess the Course Prior to TransPsoas Spinal Access at the L4-5 Intervertebral Disc Space. Poster Presentation. American Association of Neurological Surgeons. Philadelphia, Pennsylvania. May 1-5, 2010
26. **Davis TT**, Bae HW, Delamarter RB, Rasouli A. The Lumbosacral Plexus and The TransPsoas Approach to the Intervertebral Disc Space: A Cadavaric Study. Poster Presentation. American Association of Neurological Surgeons. Philadelphia, Pennsylvania. May 1-5, 2010
27. **Davis TT**, Vatave A, Patla J, Bernbeck J, Delamarter BR, Bae HW. Pedicle Screw Electrical Resistance: Hydroxyapatite Coated versus Non-Coated. Poster Presentation. American College of Spine Surgery. Newport, California. June 10-12, 2010
28. **Davis TT**, Bae HW, Delamarter RB, Rasouli A, King B. Femoral Neurogram to Assess the Course Prior to TransPsoas Spinal Access at the L4-5 Intervertebral Disc Space. Podium Presentation. American College of Spine Surgery. Newport, California. June 10, 2010
29. **Davis TT**, Bae HW, Delamarter RB, Rasouli A. The Lumbosacral Plexus and The TransPsoas Approach to the Intervertebral Disc Space: A Cadavaric Study. Podium Presentation. American College of Spine Surgery. Newport, California. June 10, 2010
30. **Davis TT**, Vatave A, Patla J, Bernbeck J, Delamarter BR, Bae HW. Pedicle Screw Electrical Resistance: Hydroxyapatite Coated versus Non-Coated. Podium Presentation. Latin American Society for the Advancement of Spine Surgery. June 16-18, 2010
31. **Davis TT**, Bae HW, Delamarter RB, Rasouli A, King B. Femoral Neurogram to Assess the Course Prior to TransPsoas Spinal Access at the L4-5 Intervertebral Disc Space. Podium Presentation. Latin American Society for the Advancement of Spine Surgery. June 16-18, 2010
32. **Davis TT**, Bae HW, Delamarter RB, Rasouli A. The Lumbosacral Plexus and The TransPsoas Approach to the Intervertebral Disc Space: A Cadavaric Study. Podium Presentation. Latin American Society for the Advancement of Spine Surgery. June 16-18, 2010
33. **Davis TT**. The Lumbar Plexus and the Transpsoas Approach, A Neurophysiologic and Anatomic Review. 10<sup>th</sup> Annual Symposium on Current Concepts in Spinal Disorders. Las Vegas, NV. February 4, 2011
34. **Davis TT**. The Lumbar Plexus and the Transpsoas Approach, What Technicians Need to Know. Western Society of Electrodiagnostics Technologists. Pasadena, CA. Feb 16, 2011

## **RESEARCH**

1. Arthroscopic Chondroplasty in Patellar Chondromalacia Van DeLune D, **Davis TT**, University of Missouri-Kansas City Orthopaedics, 10/96.
2. The Effect of High Frequency Distraction on Soft Tissue During Limb Lengthening, Animal Model. Shilt J, **Davis TT**, Ochsner Medical Foundation.
3. Center of Mass Analysis in Diabetics with Peripheral Neuropathy and Trans-tibial Amputations. **Davis, TT**, UCLA Department of PM&R.

4. IDET procedure for chronic discogenic low back pain. **Davis TT**, Delamarter, RB, Goldstein T, Spine Research Foundation, Santa Monica, CA.
5. Osteogenic Protein-1 intradiscal injection for Lumbar Degenerative Disc Disease. **Davis TT**, Bae HW. Spine Research Foundation, Santa Monica, CA. 5/07-Present
6. Cervical Discitis: A Case Report. **Davis TT**, Tatsumi R, Kropf M. Spine Research Foundation, Santa Monica, CA. 04/08
7. Marked improvement in patients treated with vertebroplasty after painful osteoporotic compression fractures. Bae HW, Kanim L, Gupta N, Kropf M, **Davis TT**, Delamarter RB. Spine Research Foundation, Santa Monica, CA.
8. The Lumbosacral Plexus and The TransPsoas Approach to the Intervertebral Disc Space: A Cadavaric Study. **Davis TT**, Bae HW, Delamarter RB, Rasouli A. Spine Research Foundation, Santa Monica, CA.
9. Femoral Neurogram to Assess the Course Prior to TransPsoas Spinal Access at the L4-5 Intervertebral Disc Space. **Davis TT**, Bae HW, Delamarter RB, Rasouli A. Spine Research Foundation, Santa Monica, CA.
10. The Variability of Electrical Resistance of Titanium Pedicle Screws: Hydroxyapatite Coated Versus Non-coated. **Davis TT**, Bernbeck JA, Rasouli A, Vatave A, Achrekar P, Bae HW. Spine Research Foundation, Santa Monica, CA.
11. Neurophysiologic Monitoring of the Lumbar Plexus: A Peripheral Nerve Stimulation Model. **Davis TT**, Bae HW, Delamarter RB, Rasouli A. Spine Research Foundation, Santa Monica, CA. Ongoing
12. Neurophysiologic Monitoring of the Femoral Nerve During Transpsoas Access to the Lumbar Spine. **Davis TT**, Bae HW. Spine Research Foundation, Santa Monica. Ongoing
13. GDF-5 Intradiscal Injection for Degenerative Disc Disease: Safety Study. **Davis TT**, Bae HW, Gupta N. Spine Research Foundation, Santa Monica. Ongoing
14. Dorsal Epidural Lipoma Resulting in Increased Impedence Measurements During Dorsal Column Stimulator Trial Placement: Case Study. **Davis TT**. Ongoing
15. Percutaneous Placement of Dorsal Column Stimulator in the Post-Surgical Scoliotic Spine. Case Series. **Davis TT**. Ongoing
16. Biostat Fibrin Sealant for Intervertebral Disc Degeneration: Multicenter Phase II Clinical Trial. **Davis TT**, Bae HW, Gupta N. Spine Research Foundation, Santa Monica. Principal Investigator, Ongoing
17. Electroconductive Hydroxyapatite Coated Pedicle Screws. **Davis TT**, Patla J, Bae HW. Spine Research Foundation, Santa Monica. Principal Investigator, Ongoing

#### **EDUCATIONAL LECTURING**

1. Conservative Management of Low Back Pain. Saint John' Health Center, Santa Monica, CA, Saint John's Health Center - Back Talk Forum. November 2, 2000.
2. Use of Cox2 Specific Inhibitors in Osteoarthritis. Los Angeles, CA July 31, 2002.
3. The Diagnosis and Treatment of Low Back Pain. Anaheim, CA. September 12, 2002.
4. Use of Cox2 Specific Inhibitors in Osteoarthritis. Santa Rosa, CA. September 24, 2002.
5. Osteoarthritis and the use of Cox 2 Inhibitors. Los Angeles, CA. October 9, 2002.

6. Treatment of Post-Herpetic Neuralgia. Bakersfield, CA. October 17, 2002.
7. Treatment of Post-Herpetic Neuralgia. Los Angeles, CA. November 13, 2002.
8. Low Back Pain: Diagnosis and Treatment. Saint Johns Health Center, Santa Monica, CA. Community Forum November 11, 2005
9. Dorsal Column Stimulation: Neurophysiology and Implant Selection. Toronto, Canada. October 16, 2008
10. Neuromodulation for Chronic Neuropathic Limb Pain: Patient Selection and Clinical Applications. San Diego, CA. November 12, 2008
11. Techniques and Strategies in Neuromodulation: Pre and Post-Operative Considerations. Irvine, CA. December 13, 2008
12. Techniques and Strategies in Neuromodulation: Neuromodulation in the Post Laminectomy Scenario, and Keys to Success. Henderson, NV. January 10, 2009
13. Techniques and Strategies in Neuromodulation: Device Selection and Implantation. Chicago, IL. July 24-26, 2009
14. Advanced Topics in Neuromodulation: Patient Selection and Considerations. San Diego, CA. September 19, 2009
15. Diagnosis and Minimally Invasive Treatments of the Lumbar Spine. Cedars Sinai Community Lecture, Los Angeles, CA October 27, 2009
16. Diagnosis and Treatment of Low Back Pain. Cedars Sinai Department of Neurological Surgery CME Course for Primary Care Givers. Marina Del Rey, CA. February 21, 2010
17. The Transpsoas Approach and the Lumbar Plexus: An Anatomic and Neurophysiologic Review. Cedars Sinai Spine Conference. Los Angeles, CA May 15, 2010
18. Intradiscal Biologics for Discogenic Low Back Pain: The Future of Spine Care. Saint John's Health Center Foundation Guest Lecture. Santa Monica, CA August 4, 2010
19. Anatomy and Neurophysiology applications to the Transpsoas Surgical approach to the Lumbar Spine. North American Spine Society. Orlando, FL October 5, 2010
20. Spinal Cord Stimulation as a Treatment for Neuropathic Pain: Counterpoint, North American Spine Society. Orlando, FL October 5, 2010
21. A Review of Degenerative Disc Disease: Basic Science and Clinical Study Protocol for Biostat Fibrin Sealant. Santa Monica, CA September 28, 2010
22. A Review of Degenerative Disc Disease: Basic Science and Clinical Study Protocol for Biostat Fibrin Sealant. Santa Monica, CA October 28, 2010
23. Anatomy and Neurophysiology applications to the Transpsoas Surgical approach to the Lumbar Spine. Introduction to DLIF Surgical Approach. St Louis, MO September 11, 2010
24. Anatomy and Neurophysiology applications to the Transpsoas Surgical approach to the Lumbar Spine. Introduction to DLIF Surgical Approach. Jersey City, NJ December 11, 2010
25. Anatomy and Neurophysiology applications to the Transpsoas Surgical approach to the Lumbar Spine. Introduction to DLIF Surgical Approach. San Diego, CA January 13, 2011

26. Anatomy and Neurophysiology applications to the Transpoas Surgical approach to the Lumbar Spine. Introduction to DLIF Surgical Approach. San Jose, CA January 20, 2011
27. Anatomy and Neurophysiology applications to the Transpoas Surgical approach to the Lumbar Spine. Introduction to DLIF Surgical Approach. Miami, FL February 26, 2011
28. Anatomy and Neurophysiology applications to the Transpoas Surgical approach to the Lumbar Spine. Indianapolis, IN March 16, 2011

**CHARITABLE AND VOLUNTEER CLINICAL**

- Saint Johns Medical Foundation - <http://www.stjohns.org/>
- Spine Research Foundation - <http://www.laspineinstitute.com/ResearchAtTheSpineInstitute.htm>
- Heal the Bay - <http://www.healthebay.org/donate>
- Surfrider Foundation - <http://www.surfrider.org/>
- Friends for Pets - <http://www.friendsforpets.org/>
- Amy Biehl Foundation - <http://www.amybiehl.org/>
- Team to Win Foundation - <http://www.wcsportsmed.com/Team-to-Win>
- Andre Agassi Foundation - <http://www.agassifoundation.org/>
- Disabled Veteran's Winter Sports Clinic - <http://www.va.gov/opa/speceven/wsc/index.asp>