

## **CURRICULUM VITAE**

**LEONEL A. HUNT, M.D.**

### **ADDRESS:**

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Phone: (310) 423-9834

### **EDUCATION**

#### **High School:**

**Fort Pierce Central High School, 1986-1990**  
Fort Pierce, Florida

#### **Undergraduate:**

**Bachelors of Science in Biomedical Engineering, 1990-1994**  
Johns Hopkins University  
Baltimore, Maryland  
Concentration in Life Sciences and Physiology/Material Science

#### **Medicine:**

**Doctor of Medicine, 1994-1998**  
University of Southern California School of Medicine  
Los Angeles, California

### **POSTGRADUATE TRAINING**

#### **Internship**

**General Surgery Resident, 1998-1999**  
Emory University School of Medicine  
Atlanta, Georgia

#### **Residency Training**

**Orthopaedic Surgery Resident, 1999-2003**  
San Francisco Orthopaedic Residency Program  
St. Mary's Medical Center  
San Francisco, CA

#### **Fellowship Training**

**Spine Surgery Fellowship, 2003-2004**  
Adult and Pediatric Spinal Deformity  
San Diego Center for Spinal Disorders – Behrooz Akbarnia, M.D.  
San Diego, CA

## **APPOINTMENTS**

2004 to present	<b>Attending Surgeon</b> Cedars-Sinai Medical Center Los Angeles, CA
2005 to 2012	<b>Director of Spine Trauma</b> Cedars-Sinai Spine Center and Orthopaedic Center Los Angeles, California
2003 to 20005	<b>Attending Surgeon</b> Scripps Memorial Hospital La Jolla, CA
2003 to 2005	<b>Attending Surgeon</b> Sharp Memorial Hospital San Diego, CA
2003 to 2005	<b>Attending Surgeon</b> Children's Hospital of San Diego San Diego, CA
2003 to 2005	<b>Attending Surgeon</b> University of California at San Diego Thornton Hospital San Diego, CA

## **MAJOR COMMITTEE APPOINTMENTS**

2005 - 2006	Education Committee - Scoliosis Research Society
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## **CURRENT IRB APPROVED RESEARCH**

Prospective, non-randomized multi-center evaluation of the extreme Lateral Interbody Fusion (XLIF) approach for the treatment of adult scoliosis

Retrospective review of prospectively collected data for the use of Stand-alone XLIF for the treatment of adult lumbar degenerative scoliosis

Retrospective review of data collected for Thoracic pedicle subtraction osteotomies

Prospective, non-randomized study looking at diffusion tensor imaging and tractography in disc herniation of the cervical spine

## **PAST RESEARCH EXPERIENCE**

Research in lipid biochemistry and diabetes examining the process of protein purification and isolation with Annabelle Rodriguez, MD. The Johns Hopkins University School of Medicine, 1991 – 1992

Research in lipid biochemistry and molecular biology examining the various methods of DNA isolation from coronary artery disease patients with Peter O. Kwiterovich, MD, Professor of Pediatrics, Division of Atherosclerosis. The Johns Hopkins University School of Medicine, 1992 – 1993

Research in lipid biochemistry and molecular biology developing a method for Apolipoprotein E phenotyping with Peter O. Kwiterovich, MD, Professor of Pediatrics, Division of Atherosclerosis. The Johns Hopkins University School of Medicine, 1993-1994

Research in Orthopaedic Surgery evaluating the effects of different laser energies on the inferior glenohumeral ligament complex with C. Thomas Vangness, MD, Associate Professor Orthopaedic Surgery, Chief of Sports Medicine. University of Southern California School of Medicine, 1995-1996

Research in Orthopaedic Surgery and Stem Cell Biology evaluating limb allograft tolerance using hematopoietic stem cells with Irvin Weissman, MD. Stanford University School of Medicine, 2000-2001

Research in Orthopaedic Spine Surgery performing a retrospective analysis of the effects of surgical treatment of spine related thoracic pain syndrome with James Zucherman, MD and Ken Hsu, MD. St. Mary's Spine Center, San Francisco, CA, 2001-2003

Research in Orthopaedic Surgery studying the anatomy of the superior gluteal neurovascular bundle in relationship to percutaneous placement of femoral intramedullary piriformis nail with William McGann, MD. Department of Orthopaedic Surgery, St. Mary's Medical Center, San Francisco, CA. 2001-2003

Research in Orthopaedic Spine surgery developing an implant system for posterior C1-2 cervical fusion in conjunction with Kamshad Raiszadeh, M.D. La Jolla Spine Institute, La Jolla, CA, 2003-2004

## **HONORS AND AWARDS**

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|------------|--|
| 1990       | Rose Award for Academic Excellence – Links of America<br>Academic Scholar Award – National Scholarship Committee   |
| 1990 –1992 | Lawnwood Regional Medical Center Academic Scholarship Award, Ft. Pierce, Florida   |
| 1990-1994  | The Johns Hopkins University Scholarship – Full Tuition  |
| 1993       | Student Excellence Award for Leadership and Service – The Johns Hopkins University<br>Polemarch's Award for Service – Kappa Alpha Psi Fraternity, Inc.   |
| 1993       | National Dean's List<br>Letter of Commendation – Governor of Maryland<br>Citizen Citation – Mayor of Baltimore, Maryland<br>Resolution – City Council of Baltimore, Maryland<br>Award for Outstanding Achievement – Neighborhood Health Worker's Training Program, Baltimore, Maryland |
| 1994–1998  | Van Horne Scholarship – Full Tuition, University of Southern California School of Medicine   |

- 1995 – 1998     Lawnwood Regional Medical Center Academic Scholarship Award, Ft. Pierce, Florida
- 1996-1998     Outstanding Young Men of America
- 1999             Excellent Teaching Resident Award – Emory University School of Medicine  
Award for Excellence in Clinical Training – Emory University Physician Assistant Program
- 2003             Resident Research Award – San Francisco Orthopaedic Residency Program, St. Mary's Medical Center
- 2007             Strathmore's Who's Who  
"America's Top Orthopedists" – Consumer's Research Council of America
- 2008             America's Leading Doctors 2008 – Black Enterprise Magazine

### **LICENSURE AND BOARD CERTIFICATIONS**

American Board of Orthopaedic Surgery  
United States Medical Licensing Examination  
California Medical Licensure  
Drug Enforcement Agency  
Basic Life Support  
Advanced Trauma Life Support/Advanced Cardiac Life Support  
Aerobics and Fitness Association of America, Personal Trainer Primary Certification  
American Council on Exercise, Personal Trainer Certification

### **ORGANIZATIONAL AFFILIATIONS**

Scoliosis Research Society  
North American Spine Society  
American Academy of Orthopaedic Surgeons  
American College of Sports Medicine  
American College of Surgery  
National Medical Association  
National Society for Black Engineers  
National Association for the Advancement of Colored People  
Kappa Alpha Psi Fraternity, Inc.

## **PUBLICATIONS IN PREPARATION:**

1. Nomoto E, Hunt G, **Hunt L.** *Thoracic Vertebrae Avascular Necrosis in Sickle Cell Anemia: A Case Report.*
2. Nomoto E, Hunt G, **Hunt L.** *Late Presentation of Abdominal Wall Hernia Following XLIF Procedure for Lumbar Fusion: A Case Report.*
3. **Hunt, L.,** Hsu, K., Zucherman, J. *Surgical Management of Spondylogenic Thoracic Pain.* Submitted.
4. **Hunt, L.,** McGann, W., Shapiro, M., Welch, R. *Management of the Hip Joint Capsule in Total Hip Arthroplasty.* Submitted.
5. **Hunt, L.,** Shapiro, M., McGann, W. *Safe Zone for Percutaneous Placement of Intramedullary Femoral Nail.* Submitted.
6. **Hunt, L.,** Vangsness, C., Sadaat, V., Gong, N., Selecky, M. *Effects of Different Laser Energies on the Inferior Glenohumeral Ligament Complex.* Submitted.

## **PUBLICATIONS:**

1. Shirzadi A, Drazin D, Gates M, Shirzadi N, Bannykh S, Xuemo F, **Hunt L,** Baron E, King W, Kim T, Johnson JP (2012). Surgical Management of Primary Spinal Hemangiopericytomas: an institutional case series and review of the literature. *Eur Spine J* Accepted Dec 10, 2012
2. Kabirian, N. , Hunt, L., Ganjavian M., Akbarnia, B. Congenital Kyphoscoliosis in Conradi's Disease: A 34-year Follow-up of Surgical Management After Anterior and Posterior Spinal Fusion. *J Pediatr Orthop.* Volume 33, Number 2, Published March 2013.

## **BOOK CHAPTERS:**

1. **Hunt, L.,** Akbarnia, B. *Surgical Techniques in Spinal Instrumentation: BowTi Anterior Buttress Staple,* edited by Kim and Vaccaro
2. Anand N, Perri BR: Posterior cervical osteotomy techniques. In: Vaccaro A (ed) *Atlas of Operative Techniques in Spinal Surgery,* Elsevier, New York, NY, 2007. Surgical Instructional DVD for chapter by **Leonel Hunt, MD** and Gabriel Hunt, MD.

## **PRESENTATIONS**

1. **Hunt, L.,** Vangsness, C., Sadaat, V., Gong, N., Selecky, M: Effects of Different Laser Energies on the Inferior Glenohumeral Ligament Complex. International Musculoskeletal Laser Society Meeting. Kassel, Germany. November 7-10, 1996.
2. **Hunt, L.,** Cheshire, S., Pathak, A., Weissman, I: Limb Allograft Transplant Tolerance with Hematopoietic Stem Cell Transplant: A Mouse Parabiosis Model. 6<sup>th</sup> Annual Research Day, St. Mary's Medical Center, San Francisco, CA. June 12, 2000.

3. **Hunt, L.**, Shapiro, M., McGann, W: Safe Zone for Percutaneous Placement of Intramedullary Femoral Nail. 7<sup>th</sup> Annual Research Symposium, St. Mary's Medical Center, San Francisco, CA. June 8, 2001
4. **Hunt, L.**, Shapiro, M., McGann, W: Safe Zone for Percutaneous Placement of Intramedullary Femoral Nail. National Medical Association Annual Meeting. Honolulu, Hawaii, August 2002.
5. **Hunt, L.**, Shapiro, M., McGann, W: Safe Zone for Percutaneous Placement of Intramedullary Femoral Nail. Western Orthopaedic Association Annual Meeting. Maui, Hawaii, August 2002.
6. **Hunt, L.**, Hsu, K., Zucherman, J: Surgical Management of Spondylogenic Thoracic Pain. . National Medical Association Annual Meeting. Honolulu, Hawaii, August 2002.
7. **Hunt, L.**, McGann, W., Shapiro, M., Welch, R: Management of the Hip Joint Capsule in Total Hip Arthroplasty. 9<sup>th</sup> Annual Research Symposium, St. Mary's Medical Center, San Francisco, CA, June 6, 2003.
8. **Hunt, L.**, Akbarnia, B: Congenital Kyphoscoliosis in Conradi's Disease: A 26-year Follow-up After Anterior and Posterior Spinal Fusion. Scoliosis Research Society Traveling Fellows, San Diego, CA, May 14, 2004.
9. **Hunt, L.**, Raiszadeh, K. et al: Hybrid Posterior Atlantoaxial Fixation: A Biomechanical Comparison to Established Techniques. Depuy Fellows Conference, Boston, MA, June 19, 2004.
10. **Hunt, L.**, Akbarnia, B: Congenital Kyphoscoliosis in Conradi's Disease: A 26-year Follow-up After Anterior and Posterior Spinal Fusion. 19<sup>th</sup> Isola Study Group Meeting, Kansas City, MO. August 20-21, 2004.
11. **Hunt, L.**, Raiszadeh, K. et al: Hybrid Posterior Atlantoaxial Fixation: A Biomechanical Comparison to Established Techniques. 19<sup>th</sup> Isola Study Group Meeting, Kansas City, MO. August 20-21, 2004.
12. Johnson JP, Melamed H, Anand N, **Hunt LA**, Pashman RS, Wolcott PW: Asymmetric pedicle subtraction osteotomy with partial vertebrectomy for correction of fixed combined coronal and sagittal imbalance: a new twist on an old technique. American Association of Neurological Surgeons, San Francisco, CA, April 2006.
13. Johnson JP, Melamed H, **Hunt L**, Pashman RS, Anand N, Wolcott WP: Asymmetric pedicle subtraction osteotomy with partial vertebrectomy for correction of fixed combined coronal and sagittal imbalance: a new twist on an old technique. Congress of Neurological Surgeons, Boston, Massachusetts, October 2005.

## POSTERS

1. **Hunt, L.**, Vangsness, C., Sadaat, V., Gong, N., Selecky, M: Effects of Different Laser Energies on the Inferior Glenohumoral Ligament Complex. American Academy of Orthopaedic Surgeons 64<sup>th</sup> Annual Meeting. San Francisco, California. February 13-17, 1997.
2. **Hunt, L.**, Hsu, K., Zucherman, J: Surgical Management of Spondylogenic Thoracic Pain. Western Orthopaedic Association Annual Meeting. Maui, Hawaii, August 2002.
3. **Hunt, L.**, Raiszadeh, K. et al: Hybrid Posterior Atlantoaxial Fixation: A Biomechanical Comparison to Established Techniques. 32<sup>nd</sup> Annual Meeting of the Cervical Spine Research Society. Boston, MA, December – 20004
4. **Hunt, L.**, Raiszadeh, K. et al: Hybrid Posterior Atlantoaxial Fixation: A Biomechanical Comparison to Established Techniques. World Spine III. Rio de Janeiro, Brazil. July 31-August 3, 2005.

5. Melamed H, **Hunt L**, Johnson JP, Pashman RS, Wolcott WP: Asymmetric pedicle subtraction osteotomy with partial vertebrectomy for correction of fixed combined coronal and sagittal imbalance: a new twist on an old technique. International Meeting on Advanced Spine Techniques (IMAST), Banff, Alberta, Canada, July 2005.
6. Johnson JP, Melamed H, **Hunt LA**, Pashman RS, Anand N, Wolcott PW: Asymmetric pedicle subtraction osteotomy with partial vertebrectomy for correction of fixed combined coronal and sagittal imbalance: a new twist on an old technique. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Lake Buena Vista, FL, March 2006.
7. Johnson JP, Melamed H, **Hunt LA**, Pashman RS, Anand N, Wolcott PW: Asymmetric pedicle subtraction osteotomy with partial vertebrectomy for correction of fixed combined coronal and sagittal imbalance: a new twist on an old technique. American Association of Neurological Surgeons, San Francisco, CA, April 2006.
8. Johnson JP, Chuang S, **Hunt L**, Anand N, Pashman RS, Hedman T: Investigation of Injectable Collagen Crosslinking as an Alternative and Adjunctive Procedure in the Treatment of Spinal Deformity. Congress of Neurological Surgeons Annual Meeting, Chicago, Illinois, October 2006.
9. **Hunt L**, Vasudevan R, Hunt G: Stand-Alone XLIF for Degenerative Scoliosis: A Retrospective Review. International Meeting on Advanced Spine Techniques (IMAST). Vienna, Austria. July, 2009.
10. **Hunt L**, Vasudevan R, Hunt G: Stand-Alone XLIF for Degenerative Scoliosis: A Retrospective Review. North American Spine Society. San Francisco, California. November, 2009.

## **COURSES**

Inflatable Bone Tamp Technology Course, Kyphon, Inc., Irvine, CA, August 23, 2003

Fundamental Principles and Techniques of Spinal Surgery, Medtronic/Sofamor Danek, San Diego, CA, September 4-6, 2003

MaXcess Cadaver Lab Training, XLIF/TLIF/Decompression/Neurovision, NuVasive, Inc., San Diego, CA, December 13, 2003

Charite' Artificial Disc Replacement Training Course, Depuy Spine, Inc., Cincinnati, OH, March 2005

Prodisc Cervical disc replacement training, Synthes Spine, Los Angeles, CA, March, 2008

## **MEDIA/PRESS**

Television: *"Trauma: Life in the ER"*; Highland Hospital, Oakland, CA. Surgical case televised - 2001. Courtesy of The Learning Channel (TLC).

Radio: *"Low Back Pain and Injury in Athletes"*; Dodger Radio Interview – September 2004.

Press: America's Leading Doctors 2008 – Black Enterprise Magazine

## **INTRAMURAL PRESENTATIONS**

1. "Charcot Arthropathy". Orthopaedic Surgery Grand Rounds, University of Southern California School of Medicine, 1996
2. "Anatomy of the Pelvis, Hip, and Thigh". Orthopaedic Surgery Lecture Series, St. Mary's Medical Center, San Francisco, CA, 1999
3. "Anatomy of the Leg, Foot, and Ankle". Orthopaedic Surgery Lecture Series, St. Mary's Medical Center, San Francisco, CA, 1999
4. "Spine and Spinal Cord Anatomy". Orthopaedic Surgery Lecture Series, St. Mary's Medical Center, San Francisco, CA, 1999
5. "Scoliosis". Orthopaedic Surgery Lecture Series, St. Mary's Medical Center, San Francisco, CA, 2000
6. "Digit Contractures". Orthopaedic Surgery Lecture Series, St. Mary's Medical Center, San Francisco, CA, 2000
7. "Mucopolysaccharidoses". Orthopaedic Surgery Lecture Series, St. Mary's Medical Center, San Francisco, CA, 2000
8. "Acetabular Fractures". Orthopaedic Surgery Lecture Series, St. Mary's Medical Center, San Francisco, CA, 2000
9. "Knee Biomechanics". Orthopaedic Surgery Lecture Series, St. Mary's Medical Center, San Francisco, CA, 2000
10. "Principles of Tendon Transfers". Orthopaedic Lecture Series, St. Mary's Medical Center, San Francisco, CA, 2001
11. "The Meniscus: Anatomy, Physiology, and Pathology ". Orthopaedic Surgery Lecture Series, St. Mary's Medical Center, San Francisco, CA, 2001
12. "The Effects of Aging on Bone, Cartilage, and Joints". Orthopaedic Surgery Lecture Series, St. Mary's Medical Center. San Francisco, CA, 2001
13. "Pediatric Knee Disorders". Orthopaedic Surgery Lecture Series, St. Mary's Medical Center, San Francisco, CA, 2001
14. "Bone Grafting". Orthopaedic Lecture Series, St. Mary's Medical Center, San Francisco, CA, 2002
15. "Digit Contractures". Orthopaedic Surgery Lecture Series, St. Mary's Medical Center, San Francisco, CA, 2002
16. "Spine Injury Management/Post Injury Rehabilitation". Orthopaedic Lecture Series, St. Mary's Medical Center, San Francisco, CA, 2002
17. "Exercise Physiology". Orthopaedic Lecture Series, St. Mary's Medical Center, San Francisco, CA, 2002
18. "Cervical Spine Injuries". Orthopaedic Lecture Series, St. Mary's Medical Center, San Francisco, CA, 2002



19. "Adult Scoliosis", UCSD Spine Conference, UCSD Medical Center Hillcrest, San Diego, CA, 2003
20. "Spinal Cord Injury and Paralysis", UCSD Spine Conference, UCSD Medical Center Hillcrest, San Diego, CA, 2003
21. "Clubfoot". Orthopaedic Lecture Series, St. Mary's Medical Center, San Francisco, CA, 2003
22. "Cervical Spine Congenital Anomalies". Orthopaedic Lecture Series, St. Mary's Medical Center, San Francisco, CA, 2003
23. Presentation, "Complications with Surgical Management of Adult Idiopathic Scoliosis", Western Orthopaedic Association Meeting, San Diego, CA, 2004
24. Case Presentation, "Posttraumatic Kyphosis", Isola Study Group Meeting, Dallas, TX, 2004
25. Case Presentation, "Adolescent Idiopathic Scoliosis", Isola Study Group Meeting, Dallas, TX, 2004
26. "Spondylolisthesis", UCSD Spine Conference, UCSD Medical Center Hillcrest, San Diego, CA, 2004
27. Case Presentation, "Asymmetric Pedicle Subtraction Osteotomy for Fixed Sagittal and Coronal Imbalance", Isola Study Group Meeting, Miami, FL, 2005
28. Case Presentation, "Surgical Management of Complex Adult Scoliosis", Isola Study Group Meeting, Miami, FL, 2005
29. "Spinal Biomechanics", CSISD Spine Conference, Cedars-Sinai Medical Center, Los Angeles, CA, 2005.
30. "Role of Spinal Fusion Today", CSISD Back Pain Conference, Cedars-Sinai Medical Center, Los Angeles, CA 2005.
31. "Pedicle Subtraction Osteotomy: Spinal Cord Level (T1 to L1)", 5<sup>th</sup> Annual Symposium on Current Concepts in Spinal Disorders, Cedars-Sinai Institute for Spinal Disorders, Las Vegas, Nevada, February 3-4, 2006.
32. "Surgical Correction of Sagittal Imbalance in Spinal Deformity", CSISD Spine Conference, Los Angeles, CA, 2006.
33. "Chronic Low Back pain", Cedar-Sinai Medical Center Conference on Office Orthopaedics: The Essentials of Non-Operative Musculoskeletal Care, Los Angeles, CA, May 20, 2006.
34. "Adult Spinal Deformity: Surgical Management", Grand Rounds Cedars-Sinai Department of Rehabilitation, Los Angeles, CA, May 2006.
35. "XLIF for Degenerative Scoliosis", 6<sup>th</sup> Annual Symposium on Current Concepts in Spinal Disorders, Cedars-Sinai Institute for Spinal Disorders, Las Vegas, Nevada February 2007.
36. " Lumbar Spinal Disorders: Surgical Management and Outcomes", Medical and Surgical Advances in Neurology and Neurosurgery 2008, Cedars-Sinai Department of Neurosurgery, Los Angeles, CA, February 16-17, 2008.
37. "Mechanisms of Injury and Management of Spinal Trauma", Achieving Excellence in the Management and Rehabilitation of Spinal Disorders, Cedars-Sinai Department of Physical Medicine and Rehabilitation, Los Angeles, CA, September 20, 2008.

