

## CURRICULUM VITAE

SALVADOR A. BRAU, MD, F.A.C.S.

**BORN:** 1945  
San Juan, Puerto Rico, USA

**CIVIL STATUS:** Married to Noreen  
Two children: Ingrid 41, Evan 38

**CITIZENSHIP:** U.S.A.

**ADDRESS:** (Office) 1015 Gayley Avenue  
Suite 270  
Los Angeles, CA 90024  
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## EDUCATION

1962-1967 College: University of Pennsylvania B.A.  
Philadelphia, Pennsylvania

1967-1971 Graduate: University of Puerto Rico M.D.  
School of Medicine AOA  
San Juan, Puerto Rico

## SPECIALTY TRAINING

1971-1972 **Surgical Internship**, Mount Sinai Hospital  
New York, New York.

1972-1976 **Assistant Surgical Resident**, General and  
Vascular Surgery, Mount Sinai Hospital,  
New York, New York.

1976-1977 **Chief Resident** in General and Vascular  
Surgery, Mount Sinai Hospital, New York,  
New York.

## HONORS

1971 Alpha Omega Alpha Honor Medical Society  
1975-77 President of the House Staff-Mount Sinai  
Hospital

**POSTGRADUATE TRAINING**

- 1988                   General and Vascular use of CO<sub>2</sub>, Argon  
and ND:Yag lasers.  
VA Medical Center, West Los Angeles, CA.
- 1989                   Laser, Stent and Atherectomy Therapy in  
Vascular Disease.  
Arizona Heart Institute, Phoenix, Arizona.
- 1990                   Laser Assisted Laparoscopic Cholecystectomy  
VA Medical Center, West Los Angeles, CA
- 1991                   Advanced Laparoscopic Surgery  
Institute for Advancement of Laser Surgery  
Los Angeles, California.
- 1993                   Endovascular Technologies Symposium - Hands  
On Laboratory  
Harbor-UCLA Medical Center, Torrance, CA
- 1994                   Thoracoscopy and Laparoscopy of the Spine  
Texas Back Institute, Dallas, TX

**PRACTICE**

- 1977-1998            Private, solo practice in General,  
Laparo-Endoscopic, Peripheral Vascular and  
Endovascular Surgery, Inglewood, California.
- 1999-present        Practice limited to Anterior Spinal Access  
Surgery

**ACADEMIC APPOINTMENTS**

- 2002-present        Visiting Clinical Assistant Professor of  
Surgery, Keck School of Medicine at USC, Los  
Angeles, California
- 1997-2002           Clinical Assistant Professor of Surgery,

Keck School of Medicine at USC, Los Angeles,  
California

1979-present Clinical Instructor of Surgery, UCLA School  
of Medicine, Los Angeles, California.

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1976-1977 Instructor of Surgery, Mount Sinai School of  
Medicine, New York, New York.

**MEDICAL APPOINTMENTS**

1998-1999 Chairman, Department of Surgery, Centinela  
Hospital Medical Center, Inglewood,  
California

1977-1978 Chairman, Utilization Review Committee,  
Hawthorne Community Medical Group-Maxicare  
Health Plans, Hawthorne, California

1982-1983 Chairman, Tissue Committee, Centinela  
Hospital, Inglewood, California

1984-1986 Chairman, Department of Surgery, Centinela  
Hospital, Inglewood, California.

1996-1997 Chairman, Surgery Review Committee,  
Centinela Hospital, Inglewood, California

1985-1986 President, Westchester Medical Society,  
Los Angeles, California.

1986-1992 Corporate Medical Director, Director of  
Managed Care, Member Board of Directors,  
Home Hospital Corporation, Irvine,  
California.

1992-1997 Consultant for Managed Care, HHC Health  
Group, Inc., Irvine, California

1984-1999 Co-director, Vascular Laboratory, Centinela  
Hospital, Inglewood, California.

1985-1992 Director, Vascular Laboratory, Robert F.

Kennedy Medical Center, Hawthorne, CA.

1984-1990  
California  
General Partner, Diagnostic Imaging Medical  
Group of Westchester, Los Angeles,

1985-1990  
General Partner, Westchester MRI Medical  
Group, Inc. Los Angeles, California

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#### LICENSURE

1977  
1971  
California Lic. No. G33964  
New York Lic. No. 112701 (Inactive)

#### BOARD CERTIFICATION

1978  
1988  
1998  
Certified, American Board of Surgery  
Re-certified, American Board of Surgery  
Re-certified, American Board of Surgery

#### HOSPITAL AFFILIATIONS

1997-2002  
1999-present  
2000-present  
2000-present  
2008-present  
2007-present  
**USC University Hospital**, Los Angeles, CA.  
**Clinical Assistant Professor**  
**Saint John's Health Center**, Santa Monica, CA  
**Santa Monica-UCLA Hospital**, Santa Monica, CA  
**Cedars-Sinai Medical Center**, Los Angeles, CA  
**Olympia Medical Center**, Los Angeles, CA  
**Marina Del Rey Hospital**, Marina del Rey, CA

#### BIBLIOGRAPHY

##### Journal Articles

1. Tomas Heimann, M.D., Salvador A. Brau, M.D., Hideki Sakurai, M.D., and E. Converse Peirce, II, M.D.: Urinary Osmolal Changes in Renal Dysfunction Following Open Heart Operations

Annals of Thoracic Surgery, vol. 22, no. 1, July, 1976.

2. Tomas Heimann, M.D., Salvador A. Brau, M.D., Hideki Sakurai, M.D., and E. Converse Peirce, II, M.D.: Acid-Base Changes in Renal Dysfunction Following Open Heart Surgery, Mount Sinai Journal of Medicine, vol. 45, no. 4, August, 1978.
3. Mark A. Reiner, M.D., Salvador A. Brau, M.D., and Harry Schanzer, M.D.: Primary Aorto-Duodenal Fistula, The American Journal of Gastroenterology, vol. 70, no. 3, September, 1978

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4. Tomas Heimann, M.D., Salvador A. Brau, M.D., Hideki Sakurai, Intervals in Surgery, The American Journal of Surgery, vol. 140, November, 1980.
5. Salvador A. Brau, M.D., FACS: Video Endoscopic Surgery in the Community Hospital, Surgical Laparoscopy and Endoscopy, September, 1993
6. Brau SA, Mini-open Approach to the Spine for Anterior Lumbar Interbody Fusion, Description of the Procedure Results and Complications. The Spine Journal Vol 2, #3 pp. 216-223, May/June, 2002
7. Brau SA, Spoonamore MJ, Snyder L, et. al., Nerve Monitoring Changes as Related to Vascular Compression. The Spine Journal Vol 3, #5 pp. 351-355 Sept/Oct 2003
8. Schiffman ML, Brau SA, Henderson R, et. al., Bilateral Implantation of Low-profile Interbody Fusion Cages: Subsidence, Lordosis, and Fusion Analysis. The Spine Journal Vol 3, #5 pp. 377-387 Sept/Oct 2003
9. Brau SA, Delamarter RB, Schiffman ML, et. al., Left Iliac Artery Thrombosis during Anterior Lumbar Surgery. Annals of

Vascular Surgery Vol 18, #1 pp. 48-51 Jan 2004

10. Brau SA, Delamarter RB, Schiffman ML, et. al., Vascular Injury during Anterior Lumbar Surgery. The Spine Journal Vol 4, #4 July/Aug 2004
11. Brau SA, Delamarter RB, Watkins RA, et. al., Access Strategies for Revision in Anterior Lumbar Surgery. Accepted for publication, Spine

### **Monographs**

1. Brau SA, Approach Strategies in Revision of Lumbar Arthroplasty, in McAfee PC edition, Roundtables in Spine Surgery, Vol 1, No 1, June 2005, Quality Medical Publishers
2. Brau SA, Exposure Issues in Lumbar Disc Replacement Surgery, in Heller JG edition, Seminars in Spine Surgery, Vol 18, No 2, June 2006, Elsevier

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3. Brau SA, Anterolateral Retroperitoneal Approach (ARPA) for Nucleus Arthroplasty, In-Spine 2-07, Vol. 3, 2007

### **Book Chapters**

1. Salvador A. Brau, M.D., FACS: Muscle Sparing Approach to Anterior Lumbar Spine Fusion, in Watkins' Ed. The Spine in Sports, Mosby, 1996
2. Salvador A. Brau, M.D., FACS: Anterior Approach to the Cervico-Thoracic Spine, Chapter 12 in Watkins' Ed. Surgical Approaches to the Spine 2<sup>nd</sup> Edition, Springer, New York 2003
3. Salvador A. Brau, M.D., FACS: Anterior Muscle Sparing Retroperitoneal Approach to L2-S1, Chapter 22 in Watkins' Ed. Surgical Approaches to the Spine 2<sup>nd</sup> Edition, Springer, New York 2003
4. Salvador A. Brau, M.D., FACS: Transperitoneal Laparoscopic Approach to L5-S1, Chapter 40 in Watkins' Ed. Surgical

Approaches to the Spine 2<sup>nd</sup> Edition, Springer, New York 2003

5. Salvador A. Brau, M.D., FACS: Video-Endoscopic Approach to the Thoracic Spine, Chapter 42 in Watkins' Ed. Surgical Approaches to the Spine 2<sup>nd</sup> Edition, Springer, New York 2003
6. Salvador A. Brau, MD, FACS: Anterior Approach to the Lumbar Spine in Guyer and Zigler's Ed. Spinal Arthroplasty: A New Era in Spine Care, Quality Medical Publishing, Inc. St. Louis 2005

### **Paper and Oral Presentations**

1. Salvador A. Brau, MD, Nerve Monitoring Changes During Anterior Lumbar Spine Surgery, **Paper Presentation** Meeting of the Americas II, North American Spine Society, New York, N.Y. April 26, 2002 and International Society for the Study of the Lumbar Spine, Annual Meeting, May 14, 2002, Cleveland, Ohio

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2. Salvador A. Brau, MD, Mini-Open Retro-peritoneal Approach to the Lumbar Spine, **Oral Presentation**, Emerging Technologies in Spine 2002, Montreal, Canada, October 30, 2002
3. Salvador A. Brau, MD, Left Iliac Artery Thrombosis During Anterior Lumbar Surgery, **Paper Presentation**, Annual Meeting, Southern California Vascular Surgery Society, La Costa, California, April 12, 2003
4. Salvador A. Brau, MD, Rick B. Delamarter, MD, Michael Schiffman, MD, et. al., Vascular Injury During Anterior Lumbar Surgery, **Paper Presentation**, North American Spine Society Annual Meeting, San Diego, California, Oct 26, 2003
5. Salvador A. Brau, MD, Rick B. Delamarter, MD, Robert G. Watkins, MD, Mini-Open Anterior Approach for Lumbar Total Disc Replacement: Technique and Complications, **Paper Presentation**, Spine Arthroplasty Society Annual Meeting, Vienna, Austria, May 4, 2004

6. Salvador A. Brau, MD, Retro-peritoneal Approach to the Lumbar Spine, **Paper presentation and Video presentation**, Society for Clinical Vascular Surgery, Annual Meeting, Coral Gables, Florida, March, 2005
7. Salvador A. Brau, MD, Management of Anterior Lumbar Approach Complications, **Instructional Course Lecture, President's Session**, Spine Society of Australia Annual Meeting, Auckland, New Zealand, April 2005
8. Salvador A. Brau, MD, Lumbar Arthroplasty Approaches-Tricks and Prevention of Complications, **Oral Presentation**, Spine Society of Australia Annual Meeting, Auckland, New Zealand, April, 2005
9. Salvador A. Brau, MD, Anterior Lumbar Surgery in the Outpatient Surgery Setting, **Oral Presentation**, World Spine Society Annual Meeting, Rio de Janeiro, Brazil, July 31-Aug 3, 2005
10. Salvador A. Brau, MD, Incidence of Anterior Revision and Approach strategies in Lumbar Arthroplasty, **Oral Presentation**, Spine Society of Australia Annual Meeting, Sydney, Australia, April 2006

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11. Salvador A. Brau, MD, Access Complications and Revisions in a Large Series of Patients Undergoing Total Disc Replacement with the ProDisc-L Device, **Oral Presentation**, North American Spine Society 22<sup>nd</sup> Annual Meeting, Austin, TX, Oct 25, 2007.
12. Salvador A. Brau, MD, Revision Problems in Anterior Lumbar Surgery, **Oral Presentation**, Spine Arthroplasty Society Annual Meeting, Miami, FL, May 6, 2008.

#### **Symposia**

1. Salvador A. Brau, MD, Approach Related Complications, Symposium on Salvage Strategies for Disc Arthroplasty, North American Spine Society Annual Meeting, Philadelphia, PA, September 28, 2005



2. Salvador A. Brau, MD, Approach Related Complications, Disc Salvage Symposium, American Academy of Orthopedic Surgeons Annual Meeting - Specialty Day, Chicago, IL, March 25, 2006

#### **Poster and Video Presentations**

1. Salvador A. Brau, M.D., FACS, Robert Watkins, M.D., Lytton Williams, M.D., Complications of the Approach for Anterior Lumbar Spine Surgery, **Poster Presentation**, North American Spine Society Annual Meeting, October 2000, New Orleans, LA
2. Michael Schiffman, MD, Salvador Brau, MD, Bilateral BAK/Proximity Cages in ALIF, **Poster Presentation**, Meeting of the Americas II, North American Spine Society, New York, N. Y. April 26, 2002
3. Michael Schiffman, MD, Salvador A. Brau, MD, Bilateral Implantation of Low Profile Interbody Fusion Cages, **Poster Presentation**, World Spine II, Chicago, IL August 10-13, 2003
4. Salvador A. Brau, MD, Rick B. Delamarter, MD, Robert G. Watkins, MD, Mini-Open Approach for Total Disc Replacement: Results and Complications. **Poster Presentation**, Spine Arthroplasty Society Annual Meeting, Phoenix, Arizona May 1-3, 2003

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5. Michael Schiffman MD, Salvador Brau MD, Mini-Open Stand Alone Fusion. **Video Presentation**, American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, California, March 10-14, 2004
6. Salvador A. Brau MD, Avoidance of Retrograde Ejaculation in Lumbar Arthroplasty, **Poster Presentation**, Spine Arthroplasty Society, Global Symposium on Motion Preservation, New York, N.Y. May 2005
7. Salvador A. Brau, MD, Incidence of Revision and Approach

Strategies in Lumbar Arthroplasty, Poster Presentation, North American Spine Society 21<sup>st</sup> Annual Meeting, Seattle, WA, Sept 28, 2006

8. Salvador A. Brau, MD, Approach Complications in Total Disc Replacement, Poster Presentation, North American Spine Society 21<sup>st</sup> Annual Meeting, Seattle, WA, Sept 29, 2006
9. Salvador A. Brau, MD, Antero Lateral Retroperitoneal Approach (ARPA) for Nucleus Replacement, Spine Arthroplasty Society Annual Meeting, Berlin, Germany, May 6, 2007

### **Post-Graduate Course Faculty**

1. Mini-Open Approach to the Lumbar Spine, Center of Excellence, Saint John's Health Center, Santa Monica, California Oct. 2000, May, Sept. 2001, Feb., Aug., Dec., 2002, Feb., June, Nov., 2003, Feb., 2004, June, 2004
2. Mini-open ALIF, Anatomy and Approach, Minimally Invasive Spine Surgery, The Spinal Science Advancement Foundation, Orlando, Florida, Aug. 4, 2001
3. Mini-Open Approach for Artificial Disc Placement, Emerging Concepts in Spine Surgery, HealthStream Education Design, Key Largo, Florida, May, 2002
4. Anterior Access for Total Disc Replacement Workshop, Synthes-Spine Solutions, Los Angeles, California, Sept., 2003, Denver, Colorado, Jan., 2004, Los Angeles, California March, 2004, Sept, 2004

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5. Management of Complications of Anterior Lumbar Surgery, AOSpine Europe, Strasbourg, France, Sept. 2004
6. Arthroplasty Approaches, Surgical Tricks and Complications-How to minimize Complications, 17<sup>th</sup> Annual Contemporary Update on Disorders of the Spine, University of South Florida, Whistler, BC, Canada, January 15-21, 2005
7. AOSpine Latin America, Interactive Spine Course, Curitiba,

Brazil, March 2005

8. AOSpine Europe, Management of Complications of Anterior Lumbar Surgery, Strasbourg, France, Nov. 2005
9. AOSpine Asia-Pacific, Masters Seminar on Spinal Complications and Revisions, Sydney, Australia, April, 2006
9. Techniques and Rationale to the Surgical Approach to the Lumbar Spine for Arthroplasty, Instructional Pre-Course, Spine Arthroplasty Society Global Symposium, Montreal, Canada, May 9, 2006

### **SOCIETY MEMBERSHIPS**

Fellow, American College of Surgeons  
North American Spine Society  
Spine Arthroplasty Society  
World Spine Society  
Faculty-AOSpine North America  
Fellow, Society of American Gastroenterologic Endoscopic Surgeons  
Los Angeles Surgical Society  
Society of Laparoendoscopic Surgeons  
International Society of Endovascular Surgeons  
California Hispanic-American Medical Association