



JEFFREY A. KLEIN, MD, MPH

UC Irvine - Department of Dermatology
 UC Riverside Department of Statistics
 30280 Rancho Viejo Road
 San Juan Capistrano, CA 92675-1561

If you are interested in having Dr. Klein visit your program, please contact him directly to set up a visit. Scheduled visits are based on a first request, first serve basis along with geographic location.

- **Area of Dermatologic Surgery Expertise:** Tumescant Local Anesthesia, Tumescant Liposuction
- **Intended Outcome for My Visit:**
 - For Residents to Acquire a Better Understanding of Tumescant Local Anesthesia and It's Applications
- **State in Which I am Licensed:** California
- **Preferred Time to Participate:** During the Weekend(s) or Monday(s)
- **Contact Information:**
 - Email: jeff@kleinmd.com
 - Phone: (949) 248-1632
 - Fax: (949) 248-9339

▪ Disclosure:	
<u>Company Name</u>	<u>Type of Relationship</u>
HK Surgical	Owner
Liposuction 101	Owner
Kythera Bio Pharmaceutical	Paid Investigator

- **Mini-CV:** see below

Curriculum Vitae

JEFFREY A. KLEIN, MD, MPH

Place/Date of Birth: Los Angeles, California, August 13, 1944

Office Address: UC Irvine - Department of Dermatology
UC Riverside Department of Statistics
30280 Rancho Viejo Road
San Juan Capistrano, CA 92675-1561
Phone: (949) 248-1632 Fax: (949) 248-9339

Web Site: www.jeffreykleindermatology.com

Email Address: jeffkleinmd@yahoo.com

Languages Spoken: English, French, Spanish

ACADEMIC APPOINTMENTS: Clinical Professor, Dermatology, University of California, Irvine
Adjunct Professor Statistics, University of California, Riverside

EDUCATION:

School	Degree	Specialty	Dates
University of California, Riverside	BA	Mathematics	1962-67
Université de Paris		Mathematics	1967-68
University of California, San Diego	MA	Mathematics	1968-71
University of California, San Francisco MD		Medicine	1972-76
University of California, Berkeley	MPH	Biostatistics	1971-72
University of California, Berkeley		Epidemiology	1976-77
University of California, Los Angeles		Internal Medicine Resident	1977-80
University of London, Institute of Dermatology		Dermatology	Mar-Apr 1980
All India Institute of Medical Sciences, New Delhi		Dermatology	May-Jun 1980
University of California, San Francisco		NIH Fellowship, Clinical Pharmacology	1980-81
University of California, Irvine		NIH Fellowship, Clinical Pharmacology	1982-83
University of California, Irvine		Dermatology Resident	1981-84

BOARD CERTIFICATION:

American Board of Internal Medicine 1980
American Board of Dermatology 1984
American Board of Cosmetic Surgery 1989

OTHER CERTIFICATIONS: Advanced Cardiac Life Support, Advanced Trauma Life Support

PRESENT ACTIVITY: Investigator Initiated Research, Private Practice Dermatology, Dermatologic Surgery

PREVIOUS EMPLOYMENT: California Emergency Physicians, Inc, Emergency Room Physician 1979-1985

PROFESSIONAL SOCIETIES:

American Academy of Dermatology, American Society for Dermatologic Surgery, Dermatology Foundation, American Society of Anesthesiologists, International Anesthesiology Research Society, International Society of Thrombosis and Hemostasis, Surgical Infection Society, Orange County Medical Association (OCMA), California Medical Association, American Medical Association

HONORS:

2004 American Society for Dermatologic Surgery President's Award: "Outstanding & Unique Contributions to Dermatologic Surgery and The American Society for Dermatologic Surgery"

2008 American Society of Cosmetic Dermatology and Aesthetic Surgery (ASCDAS) EnvisiON Award for Life Time Achievement: This award is to recognize physician leaders who through their original research have redefined the specialty of Cosmetic Dermatology and whose contributions have had a much larger and deeper impact in the Cosmetic world as a whole.

LEADERSHIP IN PROFESSIONAL SOCIETIES:

Founding Secretary: American Society for Mohs Surgery, 1994
President: Orange County Society for Dermatology, 2003-2004
Chairman Department of Dermatology: Hoag Hospital, Newport Beach, CA
Board of Directors: American Society for Dermatologic Surgery, 2008-2011

ADVISORY COMMITTEE: The Dean's Advisory Committee: College of Natural and Agricultural Sciences, University of California, Riverside, 2005 to Present

RECENT INVITED-GUEST LECTURESHIPS

2003 Society for Ambulatory Anesthesia
2004 British Association of Aesthetic Plastic Surgeons (Chester, England)
2005 Brazilian Society for Dermatologic Surgery (Manaus, Brazil)
2006 California Congress of Dermatology and Dermatologic Surgery (San Diego)
2006 Italian Society for Aesthetic Surgery (Rome)
2006, 2007, 2008 Mass Gen Hospital, Wellman Institute, Laser Medicine Course (Boston)
2008 Brazilian Society for Dermatologic Surgery (Campo do Jordão, Brazil)

NATIONAL TELEVISION INTERVIEWS

20/20 (ABC) 1995
Larry King Live 1995

SCIENTIFIC PUBLICATIONS

- 1) Klein JA. Optimal Statistical Techniques in Estimating Patient Compliance. *Preventive Med*, 1979
- 2) Klein JA. Cole G, Barr RJ, Bartlow G, Fulwider C. Paraffinoma of the Scalp. *Arch Derm* 121:382-385, 1985
- 3) Klein JA. Barr RJ. Verrucous Hemangioma. *J Pediat Derm*, 2:191-193, 1985
- 4) McCullough JL. Peckham P. Klein JA. Weinstein GD, Jenkins JJ. Regulation of Epidermal Proliferation in Mouse Epidermis by Combination of Difluoromethyl Ornithine (DFMO) and Methylglyoxal Bis (guanylhydrazone) (MGBG). *J Invest Derm* 85:518-521, 1985
- 5) Klein JA. McCullough JL. Weinstein GD. Topical Tritiated Thymidine for Epidermal Growth Fraction Determination. *J Invest Derm* 86:406-409, 1986
- 6) Klein JA. Barr RA. Diffuse Lipomatosis and Tuberous Sclerosis. *Arch Derm* 122:1298-1302, 1986
- 7) Klein JA. The Tumescent Technique for Liposuction Surgery. *J Am Acad Cosmetic Surg* 4:263-267, 1987
- 8) Klein JA. Anesthesia for Liposuction in Dermatologic Surgery. *J Derm Surg Oncol* 14:1124-1132, 1988
- 9) Stewart JH. Cole GW. Klein JA. Neutralized Lidocaine with Epinephrine for Local Anesthesia. *J Dermatol Surg Oncol* 15:1081-1083, 1989
- 10) Klein JA. Tumescent Technique for Regional Anesthesia Permits Lidocaine Doses of 35 mg/kg for Liposuction. *J Derm Surg Oncol* 16:248-263, 1990
- 11) Klein JA. Barr RJ. Bannayan-Zonana Syndrome Associated with Lymphangiomyomatous lesions. *J Pediat Dermatol* 7:48-53, 1990
- 12) Klein JA. The Tumescent Technique: Anesthesia and Modified Liposuction Technique. *Dermatol Clinics* 8:425-437, 1990
- 13) Stewart JH. Chen SE. Cole GW. Klein JA. Neutralized Lidocaine with Epinephrine for Local Anesthesia, II. *J Dermatol Surg Oncol* 16:842-845, 1990
- 14) Klein JA. Anesthesia for Dermatologic Cosmetic Surgery. Coleman WP III. Hanke CW. Alt TH. Asken S. editors, *Cosmetic Surgery of the Skin: Principles and Techniques*. Philadelphia, BC Decker Inc 1991, pp 39-45
- 15) Coleman WP III. Klein JA. Use of the Tumescent Technique for Scalp Surgery, Dermabrasion and Soft-tissue Reconstruction. *J Dermatol Surg Oncol* 18:130, 1992
- 16) Klein JA. Soins Post-operatoires Apres Liposculpture Utilisant La Technique Tumescente (Postoperative Care Following Liposuction by the Tumescent Technique). *La Revue de Chirurgie Esthetique de Langue Francaise* 17:5-8, 1992
- 17) Klein JA. Tumescent Technique for Local Anesthesia Improves Safety in Large Volume Liposuction. *Plast Reconstr Surg* 92:1085-1098, 1993
- 18) Klein JA. Reply: Ethics of Promoting Patient Safety and Comity among Surgical Specialties. [letter] *Plast Reconstr Surg* 95:603-604, 1995
- 19) Klein JA. Establishing a Dermatologic Surgicenter, Elson M, editor, *Evaluation and Treatment of the Aging Face*. Springer-Verlag, publishers, New York 1995, pp 255-260
- 20) Klein JA. Liposuction. Moy R. Lask G. editors, *Principles and Techniques of Cutaneous Surgery*. Mc Graw-Hill, New York, 1996, pp 529-542
- 21) Klein JA. Tumescent Liposuction and Improved Postoperative Care Using Tumescent Liposuction Garments™. *Dermatol Clinics*, 13:329-338, April 1995
- 22) Klein JA. Tumescent Technique Chronicles: Local Anesthesia, Liposuction, and Beyond. *Dermatologic Surg*. 21:449-457, 1995
- 23) Klein JA. Epitomes Dermatology: Tumescent Technique for Local Anesthesia. *West J. Med* 164:517, 1996
- 24) Klein JA. Tumescent Liposuction with Local Anesthesia. *Principles and Techniques of Cutaneous Surgery*. Lask GP, Moy RL editors. McGraw-Hill, New York, 1996. pp 529-542
- 25) Klein JA. Anesthesia for Dermatologic Cosmetic surgery. Coleman WP III, Hanke CW, Alt TH, Asken S, editors. *Cosmetic Surgery of the Skin: Principles and Techniques*. 2nd Edition. Philadelphia, B. C. Decker Inc, 1997
- 26) Klein JA. Two Standards of Care for Tumescent Liposuction. *Derm Surg J* 24:1194-1195, 1997

- 27) Klein JA. Kassardjian N. Lidocaine Toxicity with Tumescent Liposuction, a Case Report of Probable Drug Interactions. *Derm Surg J* 24:1169-1174,1997
- 28) Klein JA. Tumescent Liposuction, Chapter 9, in Dzubow LM. editor, *Cosmetic Dermatologic Surgery*. Lippincott-Raven, Philadelphia, 1998, p163-169
- 29) Klein JA. Narins RS. Tumescent Liposuction. *Fitzpatrick's Dermatology in General Medicine*, 5th edition. McGraw Hill, New York, 1999, pp2967-2969
- 30) Klein, JA. Intravenous Fluids and Bupivacaine are Contraindicated in Tumescent Liposuction (letter). *Plastic Reconstr Surg* 102:2516-2518,1998
- 31) Klein JA. Anesthetic Formulations of Tumescent Solutions. *Dermatologic Clinics*. 17:751-759,1999
- 32) Klein JA. Post-tumescent Liposuction Care: Open Drainage and Bimodal Compression. *Dermatologic Clinics*, 17:881-889,1999
- 33) Klein JA. Commentary: Fulton J. Modified Tumescent Liposuction. *Dermatol Surg* 25:764-766,1999
- 34) Klein JA. Discussion: Perry AW. Petti C. Rankin M. Lidocaine is Not Necessary in Liposuction. *Plast Reconstr Surg*. 1999 Nov;104: discussion 1903-6
- 35) Klein JA. Antibacterial Effects of Tumescent Lidocaine. *Plast Reconstr Surg*. 1999 Nov;104:1934-6
- 36) Klein JA. Tumescent Technique: Tumescent Anesthesia & Microcannular Liposuction, Mosby, St Louis, approx 500 pages. March, 2000
- 37) Klein JA. Pharmacology of Tumescent Liposuction. Ch 21. pp 443-445. In *Cosmetic Surgery: An Interdisciplinary Approach*. Narins RS. editor, Marcel Dekker, New York, 2001
- 38) Klein JA. Liposuction Using Dilute Local Anesthesia: Counterpoint. *Dermatol Surg* 29:1146-7, 2003
- 39) Klein JA. Is Tumescent Liposuction Safe?. Baran R. Maibach HI. Editors, *Textbook of Cosmetic Surgery*, 3rd ed 2005, Chapter 64, pages 621-628, Taylor&Francis Publishers, London&New York (ISBN 1-84184-311-3)
- 40) Kucera IJ. Lambert TJ. Klein JA., Watkins RG. Hoover JM. Kaye AD. Liposuction: Contemporary Issues for the Anesthesiologist. *J Clin Anesth*. 18:379-87, 2006

CURRENT RESEARCH:

Maximum Safe Dosage of Tumescent Lidocaine Without Liposuction
 Pharmacokinetics of Tumescent Antibiotic Delivery (TAD) of Cefazolin & Metronidazole
 Multicenter Randomized Clinical Trial of TAD for Surgical Site Infection Prophylaxis
 Paired Comparison Multi-Center Study of Open-Drainage vs Close-Drainage Post-Liposuction Care
 Double-Blind Controlled Randomized Clinical Trial of Laser Liposuction
 Bleeding Volume Test: A Double-Blind Crossover Randomized Clinical Trial of Aspirin Effect and Resistance
 Tumescent Lidocaine for Platelet Function Inhibition
 Open-Label Study of ATX-101 for the Reduction of Localized Subcutaneous Fat in the Submental Area

COMMERCIAL INTERESTS RELATED to MEDICINE & DERMATOLOGIC SURGERY:

HK Surgical, Inc.	Surgical Supplies for Tumescent Anesthesia & Liposuction	www.hksurgical.com
Liposuction.Com	Information for Prospective Patients & Surgeon Directory	www.liposuction.com
Liposuction 101	Hands-On Teaching Course (27 Hours CME)	www.liposuction101.com

US PATENTS: (www.uspto.gov)

US PAT #	Title
5,052,999	Liposuction method and apparatus
5,682,607	Skin appliqué to provide protection from ultraviolet light
D387,167	Liposuction patient positioning support (Design Patent)
5,817,050	Liposuction cannula
5,950,238	Post-liposuction breast compression garment and method for edema reduction
6,032,669	Positioning pillow for approximating anatomic position in lateral decubitus position
6,162,960	Compression sponge for wound care
6,676,677	Liposuction cannula with abrading apertures
6,849,775	Method of forming absorbent pad using precut overlay (2005)
7,364,545	Method of measuring bleeding volume (2008)
7,572,613	Drug delivery system for accelerated subcutaneous absorption (2009)
7,914,504	Infiltration Cannula (March 29, 2011)
8,118,572	Peristaltic pump tubing with stopper and cooperative roller assembly housing having no moving parts (Feb 21, 2012)

PRINCIPAL INVESTIGATOR for CLINICAL TRIALS REGISTERED on: www.ClinicalTrials.Gov

NCT00977028	1 TLA Peak	Tumescent Lidocaine Maximum Safe mg/kg Dosage
NCT01046981	2 TAD	Tumescent Antibiotic Delivery: Pharmacokinetic Evidence For Improved Surgical Site Infection Prevention
NCT01047722	3 BVT-ASA	In-Vivo Bleeding Volume Test for Platelet-Aspirin Interaction
NCT01463280	Klein-LidoLipo	Effect of Tumescent Lidocaine on Platelet Function