

Hooman Soltanian, M.D., F.A.C.S.

Office Address

University Hospitals Case Medical Center
Assistant Professor
Director, Center for Breast Enhancement and Reconstruction
Director, Center for Microsurgery
Department of Plastic Surgery
29017 Cedar Rd
Cleveland, OH 44124
440.461.7999

Citizenship U.S.A.

Languages German, Farsi

Medical Education Doctor of Medicine, 1993 – *Graduated with Honors*
University of Munich School of Medicine
Munich, Germany

Postdoctoral Training Fellowship in Microsurgery, 2001 - 2002
NYU Medical Center
New York, NY

Fellowship in Surgery of the Hand, 2000 – 2001
NYU Medical Center
New York, NY

Plastic Surgery Residency, 1998 - 2000
Albany Medical Center
Albany, NY

General Surgery Residency, 1995 - 1998
Dartmouth-Hitchcock Medical Center
Lebanon, NH

Internship in Neurosurgery, 1993 -1994

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University of Bonn, Germany

Internship in Neurosurgery, 1994 – 1995
University of Saarland, Germany

Certification

ECFMG 1995
American Board of Plastic Surgery 2003

Licensure

New Hampshire	2000
Pennsylvania	2002
Connecticut	2004
Ohio	2006

Professional Societies

Fellow American College of Surgeons
American Society of Plastic Surgeons
Ohio Valley Society of Plastic Surgeons

Academic Positions

Assistant Professor
2007 - Present
Department of Plastic Surgery
Case Western Reserve University

Clinical Assistant Professor of Surgery (Plastic)
2002 - 2004
University of Pittsburgh School of Medicine
Department of Surgery

Instructor in Surgery
2000 - 2002
Institute for Reconstructive Plastic Surgery
NYU Medical Center
NYU School of Medicine

Scholarship

Competitive scholarships from the Bavarian Government
awarded by the University of Munich, 1989 – 1991

Awards

First Prize at New York Regional Society of Plastic and
Reconstructive Surgery. New York, NY, March 2002:
Chang RR, Soltanian H.: Creation of a New Generation of
Diagnostic and Teaching Aides Based on High-End and
Divergent Technologies.

First Prize at New York Regional Society of Plastic and
Reconstructive Surgery. New York, NY, March 2001:

Rowe NM, Soltanian H.: Sonographic Assisted Minimally Invasive Carpal Tunnel Release.

Award for the overall highest score on the 1996 In-Training Examination

Award for the overall highest score on the 1997 In-Training Examination

Research

Computer 3D Modeling for Surgical Planning
2007- Present
Case Medical Center

Abdominal Wall Transplant
2006 – Present
Case Medical Center
Comprehensive Hernia Center
Cleveland , OH

Identification of physiological ligands for PPAR β/δ
2007 – Present
Case Medical Center
Case School of Medicine
Cleveland, OH

Medical 3D Animation and Modeling, Virtual Surgery Lab
2000 - 2002
Institute for Reconstructive Plastic Surgery
NYU Medical Center
New York, NY

Development of Microsurgical Models for Gene Therapy
Microsurgery Laboratories
2000 – 2002
Institute for Reconstructive Plastic Surgery
NYU Medical Center
New York, NY

Study of Wound Contracture and Effects of Acellular
Dermal Matrix on Wound Healing
Microsurgical Laboratories
2000 - 2002
Institute for Reconstructive Plastic Surgery
NYU Medical Center
New York, NY

Development of Ultrasound Guided Carpal Tunnel Release
2000 - 2002

Institute for Reconstructive Plastic Surgery
NYU Medical Center
New York, NY

Use of Ultrasound in Evaluation and Treatment of Upper
Extremity Disorders

2000 - 2002

Institute for Reconstructive Plastic Surgery
NYU Medical Center
New York, NY

Development of CPT and ICD Database Programs for
Handheld Computers

2000 - 2002

Institute for Reconstructive Plastic Surgery
NYU Medical Center
New York, NY

*Instructional course in the use of Handheld Computers for
Coding at ASPS annual meeting since 2002.*

Project in Virtual Reality & Medicine

January – April, 1995

Dartmouth-Hitchcock Medical Center, Lebanon, NH

Project (Peripheral Nerve Reconstruction)

1993

Institute for Experimental Neurosurgery
University of Saarland, Germany

Slice Of Life© Multimedia Medical Imaging Project

1991

Dartmouth Medical School
Hanover, NH

Multimedia Project in Surgery

1990

Case Western Reserve University
Cleveland, OH

Project in Physiology (Cardiac Hypertrophy)

1989

Institute for Physiology
University of Munich, Germany

Medical Society Activities

Instructional Course at ASPS Annual Scientific Meeting.

Get the Most from Your Hand-Held (Palm OS™ Based) Computer! Manage the Billing and Coding Matters more efficiently. 2002-2008

Member of the ASPS Instructional Course Committee. 2006 to present

Member of the ASPS Practice Management Education Committee. 2007 to present

Member of the Association of Academic Chairmen of Plastic Surgery Virtual Reality and Simulation Committee. 2007 to Present

Institutional Activities:

Director, Center for Breast Enhancement and Reconstruction

Director, Center for Microsurgery

Co-Director, Section for Microsurgery

Director, Microsurgery Course

Member of the IRB Committee at Case Medical Center

Peer Reviewed Publications

1. Positive Efficiency findings Using Computer-Assisted ICD-Encoding – 3.5 Years of Experience with the Computerized Patient Record System PADS (Patient Archiving and Documentation System). Hohnloser JH, **Soltanian H.** Journal of the American Medical Informatics Association. Suppl. S 1994, 965-966.
2. Improving Clinician's Coded Data Entry through the Use of an Electronic Patient Record System: 3.5 Years experience with a Semiautomatic Browsing and Encoding Tool in Clinical Routine. Hohnloser JH, Florian PP, **Soltanian H.** Computer and Biomedical Research. 29: (1) 41-47, Feb 1996.
3. Evolution of Virtual Reality in Medicine: From Planning to Performance of Surgery. Rosen JM, **Soltanian H.** et al. IEEE Engineering in Medicine and Biology. Vol. 15, No 2, pp. 16-22, March/April 1996.
4. Improving Coded Data Entry by an Electronic Patient Record System. Methods of Informatics in Medicine. Hohnloser JH, Puerner F, **Soltanian H.** 35 (2) 108-111, Jun 1996.

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5. Hybrid Myocardial Revascularization after Previous Left Pneumonectomy. **Soltanian H**, Sanders Jr. JH, Robb JC, Marrin CAS. Ann Thoracic Surg 1998; 65: 259-60.
6. Scapho-Trapezial Synovitis as a Cause of Prolonged Pain after Carpal Tunnel Release. **Hooman Soltanian, MD**, Robert W. Beasley, MD. Orthopedics, Vol 25 No 12/ Supplement, December 2002.
7. Reliable Assessment of Skin Flap Viability Using Orthogonal Polarization Imaging. W.A. Olivier, A. Hazen, J. P. Levine, **H. Soltanian**, S. Chung, and G. C. Gurtner. Plast. Reconstr. Surg. 112: 547, 2003.
8. Sonographically Guided Percutaneous Carpal Tunnel Release: An anatomic and cadaveric Study. NM Rowe, J Michaels, **H Soltanian**, M Dobryansky, CA Peimer, GC Gurtner. Ann. Plast. Surg. 2005 Jul;55 (1): 52-6.
9. Biologic Brachytherapy: Ex Vivo Transduction of Microvascular Beds for Efficient, Targeted Gene Therapy. J. Michaels, J.P. Levine, A. Hazen, D.J. Geradini, R.D. Galiano, **H. Soltanian**, G.C. Gurtner. Plast. Reconstr. Surg. 118:54, 2006.
10. Understanding Genetic Analysis for Breast Cancer and its Implications for Plastic Surgery. H. Soltanian, H. Okada. Aesthetic Surg J. 28 (1) .

Presentations

1. Multi Media Educational Programs for Medical Students, Medical Doctors and Patients. Lyon HC, **Soltanian H**. Presentation at the Annual Symposium of Deutsche Gesellschaft fur Medizinische Dokumentation, Informatik und Statistik; Munich, Germany, September 1991.
2. Virtual Reality and Medicine: From Training Systems to Performance Machines. Rosen JM, Laub DR, Pieper SD, Mecinski AM, **Soltanian H**, McKenna MA, Chen D, Delp SL, Loan JP, Basdogan C. Proceedings of VRAIS 1996.
3. Virtual Reality and Medicine. **Soltanian H**. Invited presentation at Concord Hospital Continuing Medical Education. Concord, New Hampshire, September 1997.
4. Flexor Tendon Ganglion Cyst in a Four Month old: A Case Report. **Soltanian H**, Hoehn JG. Poster presentation at Senior Resident Conference, Gainesville, FL. April 2000.

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5. Handheld Computers for PSOL Data Collection and CPT Coding. **Soltanian H**. Presentation at New York Upstate Plastic Surgery Society, Rochester, NY. May 2000.
6. CPT Coding for Plastic Surgeons on Handheld Computers. **Soltanian H**, Hoehn JG. 69th ASPS Scientific Meeting, Los Angeles, CA, October 2000.
7. Sonographic Assisted Minimally Invasive Carpal Tunnel Release. Rowe NM, **Soltanian H**. Presented at New York Regional Society of Plastic and Reconstructive Surgery. New York, NY, March 2001
8. CPT and ICD Coding on Handheld Computers. **Soltanian H**, Hoehn JG. Poster presentation at the 2001 Adrian E. Flatt Residents and Fellows Conference. American Society of Surgery of the Hand. Baltimore, October 3, 2001.
9. Sonographic Assessment of Hand and Forearm anatomy: A Comparison of Handheld and Traditional Sonography Units. Rowe NM, **Soltanian H**, Levine JP, Elias TN, Beasley RW, Peimer CA, Gurtner CG. 70th ASPS Scientific Meeting, Orlando, FL November 2001
10. Creation of a New Generation of Diagnostic and Teaching Aides Based on High-End Technologies. Chang RR, **Soltanian H**, Olikier A, Cutting BC, Beasley RW, Golimbu C. Presented at New York Regional Society of Plastic and Reconstructive Surgery. New York, NY, March 2002.
11. The Effect of Solubilized Dermal Matrix on Contraction of Fibroblast Populated Collagen Gels. **Soltanian H**, Hazen A, Galiano RD, Derderian CA, Levine JP, Gurtner GC. Presented at 47th Annual Meeting of Plastic Surgery Research Council. Boston, MA, April 17-20, 2002.
12. Real-Time Modeling of Operative Anatomy and Procedures: The combination of Imaging and Animation technology. **Soltanian H**, Beasley RW, Golimbu C, Cutting CB, Gurtner GC. Presented at 47th Annual Meeting of Plastic Surgery Research Council. Boston, MA, April 17-20, 2002.
13. Optimization of Ex-Vivo Gene Therapy for Local Tumor Control. Hazen A, **Soltanian H**, Galiano RD, Levine JP, Park S, Gurtner GC. Presented at 47th Annual Meeting of Plastic Surgery Research Council. Boston, MA, April 17-20, 2002.
14. Targeted Gene Therapy Using Microvascular Tissue Transfer: Optimization of Transfection Parameters. Hazen A, **Soltanian H**, Galiano RD, Levine JP, Park S, Gurtner GC. Presented at ASPS Annual Scientific Meeting. San Antonio, TX, November 2002.
15. Three-Dimensional and Interactive Animation of Carpal Kinematics: An Example of Real-Time Modeling of Complex and Dynamic Anatomy. **Soltanian H**, Olikier

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- A, Beasley RW, Golimbu C, Gurtner GC, Cutting BC. Presented at ASPS Annual Scientific Meeting. San Antonio, TX, November 2002.
16. Personal Digital Assistants: Holding Your Practice in the Palm of Your Hand. Invited discussion panel at ASPS Annual Scientific Meeting. San Antonio, TX, November 2002.
 17. Breast Reconstruction with Free Tissue Transfer at a City Hospital: A 12 year Experience. **Hooman Soltanian, MD**, Alexes Hazen, MD, Jennifer Capla, BA et al. Presented at the 18th Annual Meeting of the American Society for Reconstructive Microsurgery. Kauai, HI, January 2003.
 18. Scapho-Trapezial Synovitis as a Cause of Prolonged Pain after Carpal Tunnel Release. **Hooman Soltanian, MD**, Robert W. Beasley, MD. Presented at the 33rd Annual Meeting of the American Association for Hand Surgery. Kauai, HI, January 2003.
 19. Utility of a Hand-Held Ultrasound Device for Planning and Monitoring of Microvascular Free Tissue Transfer. Alexes Hazen, MD, , Jamie P. Levine, MD, et al. Presented at the 18th Annual Meeting of the American Society for Reconstructive Microsurgery. Kauai, HI, January 2003.
 20. Acellular Dermal Composite Allograft Reconstruction of the Radial Forearm Donor Site- a Significant Improvement in Form and Function. Mark D. DeLacure, E. Norm Rowe, Jamie P. Levine, Abraham Kuriakose, and **Hooman Soltanian**. Presented at the 18th Annual Meeting of the American Society for Reconstructive Microsurgery. Kauai, HI, January 2003.
 21. Isolated Composite Full Thickness Abdominal Wall Allotransplantation for Treating Abdominal Wall Failure in a Porcine Model. Judy Jin, Christina P. Williams, Molly K. Smith, **Hooman Soltanian**, Juan Sanabria, Jonathan Pearl, Michael F. McGee, Michael Rosen. Presented at the 2008 Academic Surgical Congress, Huntington Beach, CA
 22. The Use of Abdominal Wall Allotransplantation as an Alternative for the Management of End Stage Abdominal Wall Failure. Judy Jin, Christina P. Williams, Molly K. Smith, **Hooman Soltanian**, Juan Sanabria, Jonathan Pearl, Michael F. McGee, Michael Rosen. Presented at the 2008 American Hernia Society Meeting, Scottsdale, AZ
 23. Impact of Postoperative Radiation Therapy on Postmastectomy Breast Reconstruction. International Journal of Radiation Oncology Biology Physics, Volume 69 , Issue 3 , Pages S76 - S76 L . Keiler , **H . Soltanian** , R . Shenk , P . Silverman , R . Leeming , J . Lyons. Volume 69, Issue 3, Supplement 1, 1 November 2007, Page S76

Book Chapters

1. Passive hand prostheses. **Soltanian H**, de Bese G, Beasley RW. Hand Clinics (United States), Feb 2003, 19(1) p177-83
2. Hemifacial Atrophy. John W. Siebert, **Hooman Soltanian**, Alexes Hazen, in Plastic Surgery, edit Mathes & Hentz, 2/e, 2006
3. Tenosynovitis. **Hooman Soltanian**, in Grabb and Smith's Plastic Surgery, Sixth edition, December 2006.

Other Publications

1. Significant Efficiency Findings from Research on Computer-Based Interactive Medical Education Programs for Teaching Clinical Reasoning. Lyon HC, **Soltanian H** et al. MEDINFO 92,; KC Lun et al (editors) Elsevier Science Publishers (North-Holland) 1992. Pp. 1088-1094
2. The Evolution of Virtual Reality from Surgical Training to the Development of a Simulator for Health Care Delivery: A Review. Rosen JM, **Soltanian H**, Laub Jr. DR, Mecinski AM, and Dean WK. In Health Care in the Information Age. H. Sieburg, S. Weghorst, and K. Morgan (Eds). IOS Press and Ohmsha, 1996
3. Virtual Reality and Plastic Surgery. Rosen JM, Laub Jr. DR, Pieper SD, Mecinski AM, **Soltanian H**. In Advances in Plastic & Reconstructive Surgery, Vol 13, Mosby-Year Book, Inc. 1997. Pp. 33-46.

Lectures:

- 1- Plastic Surgery of the Breast and Body. Presentation at Women's Health Expo at University Hospitals, Geauga Medical Center. February 3, 2007.
- 2- Body Contouring after Massive Weight Loss. Presented at Bariatric Support Group at University Hospitals Case Medical Center. March 19, 2007
- 3- Soft Tissue Coverage. Presented at Grand Rounds, Orthopedic Department, University Hospitals Case Medical Center. August 8, 2007

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- 4- Breast Reconstruction after Mastectomy, presented at Oncoplastic Surgery for Breast Cancer, University Hospitals Case Medical Center. September 28, 2007
- 5- Body Contouring after Massive Weight Loss. Presented at Bariatric Support Group at Geauga Medical Center. January 24, 2008
- 6- Panelist at Hope Action Treatment Survivorship Luncheon organized by the Minority Women with Breast Cancer Uniting. May 31, 2008

IRB Protocols:

- 1- Identification of physiological ligands for PPAR β/δ . May 2007 to present.
- 2- Anatomical Study of the First Muscular Branch of the Deep Inferior Epigastric Artery. August 2007 to present

Revised 081023