



Chetan S. Irwin, M.D.

Philosophy of Care	My approach is to communicate my knowledge of health and injury to you so that we share in decision-making together. I aim to provide you with the same, highest quality, care I would seek for my wife or mother. When necessary, I consult with my colleagues - experts around the country - to ensure the treatment selected is the best possible option for you.
Clinical Interests	As an orthopaedic fellowship-trained hand, upper extremity and microvascular surgeon, Dr. Irwin specializes in all aspects of upper extremity musculoskeletal care from the complex to the common. Specific areas of interest include minimally-invasive surgery, treatment of base of thumb arthritis, distal radius fractures, joint and ligament injuries, and nerve compression problems.
Research/Academic Interests	Dr. Irwin's research focuses on high value improvements in hand and upper extremity care including novel device development (e.g. flexor tendon repair with coupling devices), mobile device-enabled perioperative care and communication (e.g. smartphone enabled hand therapy) and surgical resident education.
Title	Assistant Professor, Department of Surgery
Specialty	Surgery - Hand and Upper Extremity, Surgery - Microvascular Surgery, Surgery - Plastic & Reconstructive
Department	Surgery
Division	Plastic Surgery
Center/Program Affiliation	Trauma Program UC Davis Comprehensive Cancer Center UC Davis Children's Hospital
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Education	M.D., University of Pittsburgh School of Medicine, Pittsburgh PA 2009 A.B., Harvard University, Cambridge MA 2004
Internships	Plastic & Reconstructive Surgery, UC San Francisco Medical Center, San Francisco CA 2009-2010
Residency	Plastic & Reconstructive Surgery, UC San Francisco Medical Center, San Francisco CA 2010-2016
Fellowships	Orthopedic Hand and Upper Extremity Surgery, The Raymond M. Curtis National Hand Center at Medstar Union Memorial Hospital, Baltimore MD 2016-2017



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Professional Memberships

Alpha Omega Alpha
American College of Surgeons
American Medical Association
American Society for Surgery of the Hand
American Society of Plastic Surgeons

Honors and Awards

Roger H. Michael / Johnson & Johnson Research Award, Curtis National Hand Center, 2017
Medical Student Teaching Award, UCSF Department of Surgery, 2012

Select Recent Publications

Irwin CS, Parks BG, Means Jr KR. Biomechanical Analysis of Zone 2 Flexor Tendon Repair with a Coupler Device Versus Locking Cruciate Core Suture. *J Hand Surgery*. 2020 Sep;45(9):878.e1-878.e6. doi:10.1016/j.jhsa.2020.02.015. Epub 2020 Apr 8.

Hinchcliff KM, Ho CN, Meamar P, Irwin CS. Maintained Hand Perfusion in the Setting of Radial and Ulnar Artery Transections: A Report of 2 Cases. *JBJS Case Connect*. 2020 Jul-Sep;10(3):e1900365. doi:10.2106/JBJS.CC.19.00365.

Phares A, Sauder CA, Salcedo ES, Leshikar DE, Irwin C, Middleton G, Phan HH. Timing of Surgery and Internal Medicine Clerkships and Shelf Examination Scores. *J Surgical Res*. 2019 Dec; 244:456-459. doi:10.1016/j.jss.2019.06.085.

Mazor M, Lee JQ, Peled A, Zerzan S, Irwin C, Chesney MA, et al. The Effect of Yoga on Arm Volume, Strength, and Range of Motion in Women at Risk for Breast Cancer-Related Lymphedema. *J Altern Complement Med*. 2018 Feb;24(2):154-160. doi:10.1089/acm.2017.0145. Epub 2017 Oct 24.

Piper M, Irwin C, Sbitany H. Pediatric lower extremity sarcoma reconstruction: A review of limb salvage procedures and outcomes. *J Plast Reconstr Aesthet Surg*. 2016 Jan;69(1):91-6. doi:10.1016/j.bjps.2015.08.035. Epub 2015 Sep 5.

Degnim AC, Hoskin TL, Brahmabhatt RD, Warren-Peled A, Loprinzi M, Pavey ES, Boughey JC,



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Peled AW, Irwin CS, Hwang ES, Ewing CA, Alvarado M, Esserman LJ. Total skin-sparing mastectomy in BRCA mutation carriers. *Ann Surg Oncol*. 2014 Jan;21(1):37-41. doi:10.1245/s10434-013-3230-0. Epub 2013 Aug 28.

Mallek MM, Mollen KP, Kane TD, Shah SR, Irwin C. Thoracic neuroblastoma: a retrospective review of our institutional experience with comparison of the thoroscopic and open approaches to resection. *J Pediatr Surg*. 2010 Aug;45(8):1622-6. doi:10.1016/j.jpedsurg.2010.03.018.

Clavijo-Alvarez JA, Vecchione L, DeCesare G, Irwin C, Smith DM, Grunwaldt LJ, Losee JE. Autologous bone grafting with adjunctive use of acellular dermal matrix for alveolar cleft defects: early outcomes. *Cleft Palate Craniofac J*. 2010 Mar;47(2):116-21. doi:10.1597/09-029.1.

Alef M, Irwin C, Smith D, Afifi A, Jiang S, Vecchione L, Ford M, Deleyiannis F, Losee J. Nasal tip complications of primary cleft lip nasoplasty. *J Craniofac Surg*. 2009 Sep;20(5):1327-33. doi:10.1097/SCS.0b013e3181ae4115.

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