



Robert Steffner

Clinical Assistant Professor, Orthopaedic Surgery

 NIH Biosketch available Online

CLINICAL OFFICES

- **Orthopaedic Musculoskeletal Tumor Surgery**

420 Broadway St

1st Fl Pavilion D MC 6415

Redwood City, CA 94063

Tel (650) 723-5643

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Katrina Souza - Admin Assistant to Dr. Steffner

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Bio

BIO

Dr. Steffner specializes in the evaluation, diagnosis, and treatment of bone and soft tissue tumors in pediatric and adult patients. This includes primary bone and soft tissue sarcomas, locally active conditions such as giant cell tumor, aneurysmal bone cyst, and chondroblastoma, as well as impending and pathologic fractures from metastatic carcinoma, multiple myeloma, and lymphoma. He works closely with the multidisciplinary sarcoma group at the Stanford Cancer Center to provide coordinated, highly specialized treatment strategies.

Research interests include circulating tumor DNA in bone and soft tissue sarcomas, local drug delivery, establishment of a national bone and soft tissue registry, and collaborative clinical studies on imaging and soft tissue management.

CLINICAL FOCUS

- Orthopaedic Surgery
- Soft Tissue Sarcoma
- Bone Sarcoma
- Pediatric Sarcoma

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Orthopaedic Surgery

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Board Certified, American Board of Orthopaedic Surgery (ABOS) (2015 - present)
- Fellow, American Academy of Orthopaedic Surgeons (AAOS) (2015 - present)
- Member, Children's Oncology Group (COG) (2015 - present)
- Faculty Member, AO Trauma (2013 - present)
- Member, Musculoskeletal Tumor Society (MSTS) (2013 - present)

PROFESSIONAL EDUCATION

- Board Certification: Orthopaedic Surgery, American Board of Orthopaedic Surgery (2015)
- Oncology Fellowship, University of Chicago, Chicago IL , Department of Orthopaedic Surgery (2013)
- Trauma Fellowship, University of California-Davis, Sacramento CA , Department of Orthopaedic Surgery (2012)
- Residency, University of Chicago, Chicago IL , Department of Orthopaedic Surgery (2011)
- Doctor of Medicine, Wayne State School of Medicine, Detroit MI , Medicine (2006)

LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CLINICAL TRIALS

- Phase 1 Study of SQ3370 in Patients With Advanced Solid Tumors, Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Oncology (Fellowship Program)

Publications

PUBLICATIONS

- **Soft tissue pathology for the radiologist: a tumor board primer with 2020 WHO classification update.** *Skeletal radiology*
Kuhn, K. J., Cloutier, J. M., Boutin, R. D., Steffner, R., Riley, G.
2020
- **Anti-rotation pins for the compress implant do not increase risk of mechanical failure or impair osseointegration** *ANNALS OF JOINT*
Campbell, S. T., Steffner, R. J., Finlay, A., Mohler, D. G., Avedian, R. S.
2019; 4 (8)
- **Motor-sparing high-thoracic erector spinae plane block for proximal humerus surgery and total shoulder arthroplasty surgery: clinical evidence for differential peripheral nerve block?** *Canadian journal of anaesthesia = Journal canadien d'anesthésie*
Ma, W., Sun, L., Ngai, L., Costouros, J. G., Steffner, R., Boublik, J., Tsui, B. C.
2019
- **The Association of Financial Distress With Disability in Orthopaedic Surgery.** *The Journal of the American Academy of Orthopaedic Surgeons*
Mertz, K., Eppler, S. L., Thomas, K., Alokozai, A., Yao, J., Amanatullah, D. F., Chou, L., Wood, K. B., Safran, M., Steffner, R., Gardner, M., Kamal, R. N.
2019; 27 (11): e522–e528
- **Ferumoxylol Does Not Impact Standardized Uptake Values on PET/MR Scans.** *Molecular imaging and biology : MIB : the official publication of the Academy of Molecular Imaging*
Muehe, A. M., Yerneni, K., Theruvath, A. J., Thakor, A. S., Pribnow, A., Avedian, R., Steffner, R., Rosenberg, J., Hawk, K. E., Daldrup-Link, H. E.
2019
- **Outcomes for pediatric patients with osteosarcoma treated with palliative radiotherapy.** *Pediatric blood & cancer*
Chen, E. L., Yoo, C. H., Gutkin, P. M., Merriott, D. J., Avedian, R. S., Steffner, R. J., Spunt, S. L., Pribnow, A. K., Million, L., Donaldson, S. S., Hiniker, S. M.
2019: e27967
- **Patient Perceptions Correlate Weakly With Observed Patient Involvement in Decision-making in Orthopaedic Surgery** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Mertz, K., Eppler, S., Yao, J., Amanatullah, D. F., Chou, L., Wood, K. B., Safran, M., Steffner, R., Gardner, M., Kamal, R.
2018; 476 (9): 1859–65

- **Staging of Bone and Soft-tissue Sarcomas** *JOURNAL OF THE AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS*
Steffner, R. J., Jang, E. S.
2018; 26 (13): E269–E278
- **Patient Perceptions Correlate Weakly With Observed Patient Involvement in Decision-making in Orthopaedic Surgery.** *Clinical orthopaedics and related research*
Mertz, K., Eppler, S., Yao, J., Amanatullah, D. F., Chou, L., Wood, K. B., Safran, M., Steffner, R., Gardner, M., Kamal, R.
2018
- **Staging of Bone and Soft-tissue Sarcomas.** *The Journal of the American Academy of Orthopaedic Surgeons*
Steffner, R. J., Jang, E. S.
2018
- **LYMPHOMA OF BONE** *JBJS REVIEWS*
Steffner, R. J., Jang, E. S., Danford, N. C.
2018; 6 (1): e1
- **Conservative management of desmoid tumors is safe and effective.** *journal of surgical research*
Park, J. S., Nakache, Y., Katz, J., Boutin, R. D., Steffner, R. J., Monjazebe, A. M., Canter, R. J.
2016; 205 (1): 115-120
- **Emerging Concepts in Upper Extremity Trauma Humeral Shaft Fractures** *ORTHOPEDIC CLINICS OF NORTH AMERICA*
Steffner, R. J., Lee, M. A.
2013; 44 (1): 21-?
- **Case series of sural island flaps used for soft-tissue defects of the distal-third lower extremity** *JOURNAL OF WOUND CARE*
Steffner, R. J., Spiguel, A., Ranieri, J., Suk, M., Yoo, B. J.
2012; 21 (10): 469-475
- **Humeral shaft fractures.** *Current reviews in musculoskeletal medicine*
Spiguel, A. R., Steffner, R. J.
2012; 5 (3): 177-183
- **Surgical Intervention of Nonvertebral Osseous Metastasis** *CANCER CONTROL*
Attar, S., Steffner, R. J., Avedian, R., Hussain, W. M.
2012; 19 (2): 113-121
- **Factors associated with recurrence of primary aneurysmal bone cysts: is argon beam coagulation an effective adjuvant treatment?** *journal of bone and joint surgery. American volume*
Steffner, R. J., Liao, C., Stacy, G., Atanda, A., Attar, S., Avedian, R., Peabody, T. D.
2011; 93 (21): e1221-9
- **Aneurysmal Bone Cyst**
Steffner, R. J., Avedian, R., Peabody, T.
American Academy of Orthopaedic Surgeons. Orthopaedic Knowledge Online (OKO)..
2009
- **Ascorbic acid recycling by cultured beta cells: Effects of increased glucose metabolism** *FREE RADICAL BIOLOGY AND MEDICINE*
Steffner, R. J., Wu, L., Powers, A., May, A. M.
2004; 37 (10): 1612-1621
- **Oxidative stress is a mediator of glucose toxicity in insulin-secreting pancreatic islet cell lines** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Wu, L., Nicholson, W., Knobel, S. M., Steffner, R. J., May, J. M., Piston, D. W., Powers, A. C.
2004; 279 (13): 12126-12134