

Stanford



Raffi S. Avedian, MD

Associate Professor of Orthopaedic Surgery at the Stanford University Medical Center

CLINICAL OFFICES

- **Orthopaedic Musculoskeletal Tumor Surgery**
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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**
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Bio

CLINICAL FOCUS

- Pediatric tumors
- Bone and soft tissue tumors
- Sarcomas
- Pelvic tumors
- Hip and knee reconstruction
- Orthopaedic Surgery

ACADEMIC APPOINTMENTS

- Associate Professor - Med Center Line, Orthopaedic Surgery
- Member, Bio-X

PROFESSIONAL EDUCATION

- Residency: UCSF Dept of Orthopedic Surgery (2007) CA
- Internship: UCSF Dept of General Surgery (2003) CA
- Board Certification: Orthopaedic Surgery, American Board of Orthopaedic Surgery (2011)
- Fellowship: Univ of Chicago - Pritzker School of Medicine (2008) IL
- Medical Education: University of Chicago Pritzker (2002) IL

LINKS

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

Research & Scholarship

CLINICAL TRIALS

- Incisional Negative Pressure Wound Therapy for Preoperatively Irradiated Lower Extremity Soft Tissue Sarcoma Wounds, Recruiting
- Feasibility of ExAblate MRI Guided High Intensity Focused Ultrasound Tx of Soft Tissue Tumors, Not Recruiting
- Phase 3 Study of Pexidartinib for Pigmented Villonodular Synovitis (PVNS) or Giant Cell Tumor of the Tendon Sheath (GCT-TS), Not Recruiting
- Prophylactic Antibiotic Regimens in Tumor Surgery (PARITY), Not Recruiting
- Safety and Efficacy Study of Treatment of Pathological Fractures in Humerus, Not Recruiting

Publications

PUBLICATIONS

- **The Outcome of Patients With Localized Undifferentiated Pleomorphic Sarcoma of the Lower Extremity Treated at Stanford University** *AMERICAN JOURNAL OF CLINICAL ONCOLOGY-CANCER CLINICAL TRIALS*
Kamat, N. V., Million, L., Yao, D., Donaldson, S. S., Mohler, D. G., van de Rijn, M., Avedian, R. S., Kapp, D. S., Ganjoo, K. N.
2019; 42 (2): 166–71
- **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
- **Tissue-engineered 3D Models for Elucidating Primary and Metastatic Bone Cancer Progression.** *Acta biomaterialia*
González Díaz, E. C., Sinha, S., Avedian, R. S., Yang, F.
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
- **Genome-Informed Targeted Therapy for Osteosarcoma** *CANCER DISCOVERY*
Sayles, L. C., Breese, M. R., Koehne, A. L., Leung, S. G., Lee, A. G., Liu, H., Spillinger, A., Shah, A. T., Tanasa, B., Straessler, K., Hazard, F. K., Spunt, S. L., Marina, et al
2019; 9 (1): 46–63
- **The Outcome of Patients With Localized Undifferentiated Pleomorphic Sarcoma of the Lower Extremity Treated at Stanford University.** *American journal of clinical oncology*
Kamat, N. V., Million, L., Yao, D., Donaldson, S. S., Mohler, D. G., van de Rijn, M., Avedian, R. S., Kapp, D. S., Ganjoo, K. N.
2018
- **Genome-Informed Targeted Therapy for Osteosarcoma.** *Cancer discovery*
Sayles, L. C., Breese, M. R., Koehne, A. L., Leung, S. G., Lee, A. G., Liu, H., Spillinger, A., Shah, A. T., Tanasa, B., Straessler, K., Hazard, F. K., Spunt, S. L., Marina, et al
2018
- **Treatment of Low-Flow Vascular Malformations of the Extremities Using MR-Guided High Intensity Focused Ultrasound: Preliminary Experience** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
Ghanouni, P., Kishore, S., Lungren, M. P., Bitton, R., Chan, L., Avedian, R., Bazzocchi, A., Pauly, K., Napoli, A., Hovsepian, D. M.
2017; 28 (12): 1739–44
- **Magnetic resonance-guided focused ultrasound treatment of extra-abdominal desmoid tumors: a retrospective multicenter study** *EUROPEAN RADIOLOGY*
Ghanouni, P., Dobrotwir, A., Bazzocchi, A., Bucknor, M., Bitton, R., Rosenberg, J., Telischak, K., Busacca, M., Ferrari, S., Albisinni, U., Walters, S., Gold, G., Ganjoo, et al
2017; 27 (2): 732-740

- **Concurrent Imatinib and Radiation Therapy for Unresectable and Symptomatic Desmoid Tumors.** *Sarcoma*
Moding, E. J., Million, L., Avedian, R., Ghanouni, P., Kunder, C., Ganjoo, K. N.
2017; 2017: 2316839
- **Magnetic resonance-guided focused ultrasound treatment of extra-abdominal desmoid tumors: a retrospective multicenter study.** *European radiology*
Ghanouni, P., Dobrotwir, A., Bazzocchi, A., Bucknor, M., Bitton, R., Rosenberg, J., Telischak, K., Busacca, M., Ferrari, S., Albisinni, U., Walters, S., Gold, G., Ganjoo, et al
2016: -?
- **The Effect of Applicant Publication Volume on the Orthopaedic Residency Match.** *Journal of surgical education*
Campbell, S. T., Gupta, R., Avedian, R. S.
2016; 73 (3): 490-495
- **Effect of Patellar Resurfacing on Distal Femoral Replacements: Commentary on an article by Mauricio Etchebehere, MD, PhD, et al.: "Patellar Resurfacing. Does It Affect Outcomes of Distal Femoral Replacement After Distal Femoral Resection?".** *journal of bone and joint surgery. American volume*
Avedian, R. S.
2016; 98 (7)
- **Is MR-guided High-intensity Focused Ultrasound a Feasible Treatment Modality for Desmoid Tumors?** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Avedian, R. S., Bitton, R., Gold, G., Butts-Pauly, K., Ghanouni, P.
2016; 474 (3): 697-704
- **Sarcoma Resection With and Without Vascular Reconstruction: A Matched Case-control Study** *ANNALS OF SURGERY*
Poultides, G. A., Tran, T. B., Zambrano, E., Janson, L., Mohler, D. G., Mell, M. W., Avedian, R. S., Visser, B. C., Lee, J. T., Ganjoo, K., Harris, E. J., Norton, J. A.
2015; 262 (4): 632-640
- **Prophylactic antibiotic regimens in tumour surgery (PARITY) A PILOT MULTICENTRE RANDOMISED CONTROLLED TRIAL** *BONE & JOINT RESEARCH*
Ghert, M., Bhandari, M., Deheshi, B., Guyatt, G., Holt, G., O'Shea, T., Randall, R. L., Thabane, L., Wunder, J., Evaniew, N., McKay, P., Schneider, P., Turcotte, et al
2015; 4 (9): 154-162
- **What Is the Use of Imaging Before Referral to an Orthopaedic Oncologist? A Prospective, Multicenter Investigation** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Miller, B. J., Avedian, R. S., Rajani, R., Leddy, L., White, J. R., Cummings, J., Balach, T., Macdonald, K.
2015; 473 (3): 868-874
- **Sarcoma Resection With and Without Vascular Reconstruction: A Matched Case-control Study.** *Annals of surgery*
Poultides, G. A., Tran, T. B., Zambrano, E., Janson, L., Mohler, D. G., Mell, M. W., Avedian, R. S., Visser, B. C., Lee, J. T., Ganjoo, K., Harris, E. J., Norton, J. A.
2015; 262 (4): 632-40
- **Antirotation Pins Improve Stability of the Compress Limb Salvage Implant: A Biomechanical Study** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Avedian, R. S., Chen, T., Lindsey, D., Palanca, A., Mohler, D.
2014; 472 (12): 3982-3986
- **Antirotation pins improve stability of the compress limb salvage implant: a biomechanical study.** *Clinical orthopaedics and related research*
Avedian, R. S., Chen, T., Lindsey, D., Palanca, A., Mohler, D.
2014; 472 (12): 3982-3986
- **Principles of musculoskeletal biopsy.** *Cancer treatment and research*
Avedian, R. S.
2014; 162: 1-7
- **Successful Limb Salvage of a "Too-Short Segment" of the Proximal Part of the Femur with Use of a Compression Osseointegration Implant: A Case Report.** *JBJS case connector*
Avedian, R. S., Giori, N. J., Mohler, D.
2014; 4 (3): e63-e6

- **Changes in health status among aging survivors of pediatric upper and lower extremity sarcoma: a report from the childhood cancer survivor study.** *Archives of physical medicine and rehabilitation*
Marina, N., Hudson, M. M., Jones, K. E., Mulrooney, D. A., Avedian, R., Donaldson, S. S., Popat, R., West, D. W., Fisher, P., Leisenring, W., Stovall, M., Robison, L. L., Ness, et al
2013; 94 (6): 1062-1073
- **Successful Surgical and Medical Treatment of Rhizopus Osteomyelitis Following Hematopoietic Cell Transplantation** *ORTHOPEDICS*
Vashi, N., Avedian, R., Brown, J., Arai, S.
2012; 35 (10): E1556-E1561
- **Surgical Technique: Methods for Removing a Compress (R) Compliant Prestress Implant** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Abrams, G. D., Gajendran, V. K., Mohler, D. G., Avedian, R. S.
2012; 470 (4): 1204-1212
- **Surgical Intervention of Nonvertebral Osseous Metastasis** *CANCER CONTROL*
Attar, S., Steffner, R. J., Avedian, R., Hussain, W. M.
2012; 19 (2): 113-121
- **COMPARISON OF HEALTH STATUS BETWEEN UPPER AND LOWER EXTREMITY SARCOMA SURVIVORS: A REPORT FROM THE CHILDHOOD CANCER SURVIVOR STUDY**
Marina, N., Hudson, M., Mulrooney, D. A., Avedian, R., Donaldson, S., Fisher, P., Leisenring, W., Stovall, M., Robison, L. L., Ness, K.
WILEY PERIODICALS, INC.2011: 714
- **Magnetic resonance guided high-intensity focused ultrasound ablation of musculoskeletal tumors.** *Current orthopaedic practice*
Avedian, R. S., Gold, G., Ghanouni, P., Pauly, K. B.
2011; 22 (4): 303-308
- **Magnetic resonance guided high-intensity focused ultrasound ablation of musculoskeletal tumors** *CURRENT ORTHOPAEDIC PRACTICE*
Avedian, R. S., Gold, G., Ghanouni, P., Pauly, K.
2011; 22 (4): 303-8
- **Curettage and Cryosurgery for Low-grade Cartilage Tumors Is Associated with Low Recurrence and High Function** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Mohler, D. G., Chiu, R., McCall, D. A., Avedian, R. S.
2010; 468 (10): 2765-2773
- **Multiplanar Osteotomy with Limited Wide Margins: A Tissue Preserving Surgical Technique for High-grade Bone Sarcomas** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Avedian, R. S., Haydon, R. C., Peabody, T. D.
2010; 468 (10): 2754-2764