

Gaurave Abbi
CV

<p>Education:</p>	<p>NYU-HJD Fellowship in Spinal Surgery. Completed, July 2012 University of California, Davis. Orthopaedic Residency. Completed, June 2011. Board certified: Part 1 ABOS (7/2011) Part 2 ABOS (7/2014) exp: 2024 MD License: CA A102193 expires 12/2023 University of California, San Diego SOM; Degree: MD, June 2006 UCSD; Major: BS Bioengineering, Minor: Chemistry, GPA (3.85), June 2001</p>
<p>Work:</p> <p>Oct '20- present</p> <p>Jan '20- present</p> <p>Oct '16-present</p> <p>Jan '15- present</p> <p>Oct'12-Sept '16</p> <p>Aug '11-July '12</p> <p>July '06-June '11</p> <p>Mar '03-June '04, July '05- June '06</p> <p>July '01-July '02</p> <p>Sept. '99- Mar. '00</p> <p>Nov. '99- Jun '00</p>	<p>Chair of Orthopedics, Seton Medical Center</p> <p>Joined private practice orthopedic group Peninsula Orthopedic Associates. Case volume includes total hip, knee replacement, cervical and lumbar surgery, fracture care https://www.poadocs.com</p> <p>Private practice Orthopedist in the San Francisco Area San Mateo County Hospital- General Orthopedic surgeon for indigent population. Concentra- Orthopedic Spine surgeon for patients injured at the work place.</p> <p>Med-Legal Work- Expert witness in med-legal cases. Perform independent medical exams, review records, report on persons injured in personal injury cases.</p> <p>Orthopaedic Spine Surgeon, Chief of Spine service, Santa Clara Valley Medical Associate clinical professor, Stanford University SOM Dept of Orthopaedics</p> <p>Spine Surgery Fellowship, NYU- Hospital for Joint Diseases</p> <p>Orthopaedic Surgery Resident, UC Davis Medical Center</p> <p>Research Assistant- Bio-mechanical Lab, Children's Hospital, San Diego Orthopaedic Research, funded by an NIH grant. Two major projects, both resulting in publication and a patent.</p> <p>Research Associate, Alexza Pharmaceuticals Worked at pharmaceutical start-up on a novel form of inhalation aerosol technology. My contributions: instrument design, patent development, drug screening.</p> <p>Undergraduate Research Program, NASA Submitted, built and tested proposal to test out the effects of zero-gravity on body fluid shifts. Findings published in a NASA journal and reported in local news. https://ucsdnews.ucsd.edu/archive/newsrel/science/akc135.htm</p> <p>Research Associate, Biosensor Project, UCSD Utilized an etching technique to form a biochemical sensor on silicon wafers to develop a cheap, disposable wafer that could detect airborne chemicals. Resulted in patent US patent office, 2003. Accepted 2012. #US 8274643 B2</p>
<p>Honors:</p>	<p>Principles of Pharmacology, Laboratory Medicine NIH Research Grant Summer 2007 Graduated with Honors (6'01) - Magna Cum Laude. Stout Scholarship- for 4 years of excellent performance in engineering Phi Beta Kappa Honor's Society Member UC Regents Scholar, National Merit Finalist California space grant 2000</p>

Patents

1. Michael J. Sailor, Gaurav Abbi, et al. Porous nanostructures and methods involving the same. Grant Publication # US8274643 B2. September 2012. Application # US 10/546,522 March 2004.

Publications

1. Silverstein J, Block J, Smith M, Abbi G et al. Femoral nerve neuromonitoring for lateral lumbar interbody fusion surgery. *The Spine Journal* 2021 (1-9). Published: August 02, 2021 DOI: <https://doi.org/10.1016/j.spinee.2021.07.017>
2. Konig G, Waters J, Javidroozi M, Abbi G, et al. Real-time evaluation of an image analysis system for monitoring surgical hemoglobin loss. *J Clin Monit Comp*. 2018 Apr; 32(2): 303-310.
3. Konig G, Waters J, Hsieh E, Abbi G et al. In Vitro evaluation of a Novel imaging processing device to estimate surgical blood loss in suction canisters. *Anesth Analg*. 2018 Feb;126(2): 621-628.
4. Abbi G, Lonner B, Newton P, et al. Preoperative pulmonary function in patients with operative Scheuermann's Kyphosis. *Spine Deformity*. 2014; 2(1): 70-75.
5. Meehan J, Abbi, G. Failure of Interpositional Membrane to Prevent Recurrent Arthrofibrosis: A Case Report. *J Knee Surg* 2010; 23 (3): 175-180
6. Abbi, Gaurav, et al. "Lower Doses of rhBMP-2 Appear Sufficient in Achieving Fusion in Adult Spinal Deformity." *The Spine Journal* 9.10 (2009): 79S.
7. Abbi G, Espinoza L, Odell TR, Mahar AT, Pedowitz RA. Very Strong sutures can still slip: Evaluation of five knot types and two suture materials for shoulder arthroscopy. *J Arthroscopy*. 2007; 22(1): 38-43.
8. Mahar A, Allred D, Abbi G, Pedowitz R. Biomechanical and Radiographic Analysis of Standard and Intracortical Suture Anchors for Arthroscopic Rotator cuff Repair. *J Arthroscopy*. 2006; 22(2): 130-135.
9. Collins BE, Dancil K-PS, Abbi G, Sailor MJ. Determining Protein Size using an electrochemically machined pore gradient in silicon. *Advanced Function Materials*. 2002; 12(3): 187-191.

Abstracts/Presentations

1. Konig G, Abbi G et al. Bleeding Curves: Time-course Assessment of Surgical Hemoglobin Loss. ASA meeting Oct 2014.
2. Kadokura A, Abbi G et al. Spot-check Technique for Assessing Hemoglobin Loss in Suction Canisters. ASA meeting Oct 2014. www.asaabstracts.com.
3. Abbi G, Lonner B, Toombs C. Preoperative pulmonary function testing of patients with Scheuermann's kyphosis. AO Spine Fellows Course. March 2012.
4. Abbi G, Gogia J, Klineberg E, Roberto R, Gupta M. "Lower Doses Of rhBMP-2 Appear Sufficient In Achieving Fusion In Adult Spinal Deformity." OREF SF 2009, Global Spine Congress 2009, IMAST 2009, SPINE 2009, NASS 2009.
5. Gogia J, Abbi G, Wright D, Gupta M. "Is it safe to use rhBMP-2 in Pediatric Spinal Surgery?" Global Spine Congress 2009, IMAST 2009, SPINE 2009, NASS Spine Across the Sea 2009, AAOS 2010.
6. Espinoza L, Abbi G, Odell TR, Mahar AT, Pedowitz RA. "Very strong sutures can still slip: Evaluation of five knot types and two suture materials for shoulder arthroscopy." Abstract, AANA 2003.
7. Espinoza L, Abbi, G, Odell TR, Mahar AT, Pedowitz RA. "Biomechanical comparison of a new suture knot technique to several standard knot designs." Abstract, ORS 2004.
8. Mahar A, Allred D, Abbi G, Wedemeyer M, Pedowitz R. "Biomechanical comparison of an intra-cortical fixation anchor versus standard anchor fixation for rotator cuff repair". Abstract American society of Biomechanics 2004.

Grand Rounds

1. Abbi, G "Anti-platelet therapy and Orthopaedic surgery." Stanford 10/2014
2. Abbi, G. "Cervical Spine Clearance in the Trauma Patient." Stanford 9/13, NYU 12/11, UCDCMC 3/11.
3. Abbi, G. "Spinal infections." NYU-HJD January 18, 2012.
4. Abbi, Gaurav. "rhBMP-2: Use in pediatric spinal surgery: A review of 25 cases. UCDCMC June 2011.
5. Choi G, Abbi G, Gupta M "Complications of Multilevel Fusions for Adult Spinal Deformity in Patients over age 65". UCDCMC June 19, 2009.

6. Hallare D, Abbi G, Wolinsky P. "The Effect of Full Weight Bearing After Intramedullary Nail Fixation of Femoral Shaft Fractures." UCDCMC June 20, 2008