

**Gaurav Abbi**

<p><b>Education:</b></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)            University of California, San Diego SOM; Degree: MD, June 2006            UCSD; Major: BS Bioengineering, Minor: Chemistry, GPA (3.85), June 2001</p>
<p><b>Work:</b>            Oct '16-present            Sept '16-present            Jan '15-present            Oct'12-Sept „16            Aug '11-July „12            July '06-June „11            Mar '03-June '04,            July '05- June „06            July „01-July „02            Sept. „99- Mar. „00            Nov. „99- Jun '00</p>	<p>USHW- Orthopedic Spine surgeon for patient injured at the work place.            BAO- Private practice Orthopedist in the San Francisco Area            San Mateo County Hospital- Orthopedic surgeon for indigent population.            Abbi Med-Legal. Medical Legal work for personal injury litigation cases, involves reviewing records, examining patients, writing reports, giving expert testimony for trials/depositions.            Orthopaedic Spine Surgeon, Chief of Spine service, Santa Clara Valley Medical            Associate clinical professor, Stanford University SOM Dept of Orthopaedics            Spine Surgery Fellowship, NYU- Hospital for Joint Diseases            Orthopaedic Surgery Resident, UC Davis Medical Center            Research Assistant- Biomechanical Lab, Children's Hospital, San Diego            Orthopaedic Research, funded by an NIH grant. Two major projects, both resulting in publication and a patent.            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.            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.            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><b>Activities:</b>            Jan „03-June „06            Jan '03-Jan „04</p>	<p>Director of Professional Interests, UCSD SOM Executive Board            Responsible for educating students on their opportunities as doctors.            Free Clinic of San Diego, Ophthalmology clinic            Involved in volunteering at UCSD's student run clinics; involved in screening un-insured patients for diabetic retinopathies.</p>
<p><b>Honors:</b></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</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. 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.

2. Meehan J, Abbi, G. Failure of Interpositional Membrane to Prevent Recurrent Arthrofibrosis: A Case Report. *J Knee Surg* 2010; 23 (3): 175-180

3. Abbi, Gaurav, et al. "150. Lower Doses of rhBMP-2 Appear Sufficient in Achieving Fusion in Adult Spinal Deformity." *The Spine Journal* 9.10 (2009): 79S.

4. 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.

5. 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.

6. 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](http://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, UCDCM 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. UCDCM June 2011.

5. Choi G, Abbi G, Gupta M "Complications of Multilevel Fusions for Adult Spinal Deformity in Patients over age 65". UCDCM June 19, 2009.

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