

Dr. Ankit S. Patel

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Educational Qualifications

- Clinical Fellowship in Spine Surgery (**F.ASSI**) **2018**
- Diplomate of National Board in Orthopedics (**DNB Ortho**) **2016**
- Masters in Orthopedic Surgery (**M.S. Orthopedics**) **2015**
B. J. Medical College & Civil Hospital, Ahmedabad
- Bachelor of Medicine & Surgery (**M.B.B.S**) **2012**
Seth G. S. Medical College, K.E.M Hospital, Mumbai



Professional Experience

- **Director & CEO - One Spine PLC;** **Centre Head - One Spine Clinic (Borivali & Vasai)**
- **Consultant Spine Surgeon:** Wokhardt Hospital, Criticare Asia Hospital, Namah Hospital, HCG Cancer Hospital, Astha Hospital, Sanjivani Hospital, Navneet Hospital, TMRT Hospital, Bombay Hospital & Medical Research Center
- Cumulative experience of > 3500 independent Spine Surgeries & Endoscopic Procedures over 8 years.
- **Scoliosis Research Society 'Robert B. Winter Fellow 2019'** at the New York Presbyterian Hospital, NY, USA with *Prof. Lawrence Lenke* (Complex Pediatric & Adult Scoliosis Fellowship); **Minimal Invasive Deformity Correction & OLIF techniques** at the Cedars Sinai Spine Institute, LA, USA with *Prof. Neel Anand*: October-November 2019
- **Posterior Interlaminar Endoscopy Fellow** at the Good-Doctor Teun Teun Hospital, South Korea with *Prof. Kangtaek Lim*: August 2019
- **Biportal Endoscopic Spine Surgery Fellow (BESS)** at the Himnaera Spine Hospital, Busan, South Korea with Dr Choi: September 2019
- **SICOT meets SICOT Fellowship in Spine Oncology & Complex Pediatric Deformities**, Aarhus University Hospitalet, Denmark: Nov-Dec 2018
- **Spinal Cord Society Fellowship in Pediatric Spinal Deformities**, University Medical Centre Utrecht & Wilhelmina Kinderziekenhuis, Netherlands: Oct-Nov 2018
- **AOSpine International Fellow** at Department of Spine Surgery, Queens Medical Centre, Nottingham NHS Trusts, UK: Sep-Oct 2018
- **Association of Spine Surgeons of India 'Travelling Fellowship'** (2018): Park Clinic, Kolkata & GANGA Hospital, Coimbatore
- **Association of Spine Surgeons of India 'Clinical Fellow'** at Bombay Hospital, Mumbai: September 2016 to August 2018
- o Exposure to entire spectrum of spine disorders and management techniques (Conventional, Minimal Access, Navigation Guided procedures, Deformity)
- o Organising member of 'Bombay Orthopaedic Society MIS course' November 2017; Bombay Operative Spine Course 2017, 2018 & 2019; Cadaveric Navigation Guided Surgery course 2016
- **Asia-Pacific Spine Society Clinical Fellowship**, Peking Union Medical College Hospital, Beijing, China: September 2017
- **AO Spine Asia-Pacific Clinical Fellow:** Stavva Spine Hospital & Research Institute, Ahmedabad: May – July 2016 (Co-organizer for AOSpine Advanced Lumbar Operative Course 2016)
- **Consultant Orthopaedic Surgeon:** Amee Multi-specialty Hospital, Nadiad: Oct 2015 - April 2016
- **B.J. Medical College & Civil Hospital, Ahmedabad:** P.G. Resident: May 2012 – April 2015

Senior Resident: May '15 - October '15

- Trained in Comprehensive Spine care for 4 months at '**Government Spine Institute & Paraplegia Hospital**'.
- Performed complex spine surgeries (Deformity Correction, Koch's Spine, Spinal Tumors)
- Exposure to evaluation and management of trauma patients including delayed presentations, complex cases, revision of failed surgeries; Replacement & Arthroscopy.
- Conducted the '**Spine Deformity Symposium 2014**' (*Scoliosis Research Society & Polio Foundation, Ahmedabad*) at the Government Spine Institute & Paraplegia Hospital
- Participated in the '**Annual Bladder Exstrophy & Epispadias Workshop**' in the Pediatric Surgery Department aided by the '**International Volunteers in Urology**'. (Application of Innominate Osteotomies & External Pelvic Fixator to achieve a better Pubic Symphyseal closure post bladder neck repair in the years 2013, '14 & '15)

Future Learning Objectives & Interests

- Motion Preservation Technology
- Scoliosis & Adult Deformity treatment
- Minimal Access & Image Guided Surgery
- Augmented & Mixed Reality applications in Spine Surgery

Academic Achievements

- SRS Robert B. Winter Fellow 2019
- SMISS Young Surgeon Award 2019, Las Vegas, USA
- NASS Scientific Advisory Committee Member 2019-20
- ASSI elearnspine.org project coordinator for content generation and website development
- SICOT meets SICOT Spine Fellowship Award 2018 – Aarhus University Hospital, Denmark
- SRS *Young Surgeon* Educational Grant Winner 2018 – SRS Annual Meeting, Bologna Italy
- 'AO Spine Past-Fellows Representative' - Asia-Pacific: Global Spine Congress 2018, Singapore
- 'Spinal Cord Society - Gold Medal Award' for Best Scientific paper at ISSICON 2017, New Delhi
- *Korean SICOT Award 2017 – 38th SICOT Orthopedic World Congress, Cape Town, South Africa*
- APSS DePuy Clinical Fellowship 2017, *Peking Union Medical College Hospital, Beijing China*
- College Topper – M.S. Orthopedics, Gujarat University Exams, April 2015
- Winner - '*Torrent Young Scholar Award- West Zone*' 2015
- Winner - '*Dr Kanabar Best Paper Award 2015*' at the Ahmedabad Orthopedic Society meet.
- Winner - '*Mohandas Weller Gold Medal Award*' for Best Innovative Paper at IGOF, Indore 2014
- Recipient of *Ratan Tata Scholarships & Narottam Sheksaria Scholarships* in M.B.B.S.
- National Rank Holder in UG CET and PG CET Medical entrance exams.

Academic Work / Publications

- **Thesis**
 1. Tandem Stenosis: Clinical Manifestations, evaluation & management options (**ASSI Fellowship**)
 2. Secondary interventions & complications in extra-articular lower 1/3 Tibia-fibula fractures. (**M.S.**)
- **Publications (Spine)**
 1. Surgical, clinical & radiological outcomes of Occipitocervical Fusion using the Plate-Screw-Rod system with Allograft in CVJ instability. JCVJS, Jan 2019, 10(4):216
 2. Clinico-radiological efficacy of Posterior Instrumentation, Decompression & Transpedicular Bone grafting in Osteoporotic Burst fracture with Neurological deficit. AJNS Nov 2019, (19)95
 3. Learning curve of Microendoscopic Discectomy in single-level prolapsed intervertebral disc in 120 patients. Global Spine Journal, Aug 2019

4. Patel AS, Kulkarni AG. Denosumab: A potential new treatment option for recurrent Aneurysmal Bone Cyst of Spine. SICOT Journal 2019, 5, 10
5. Kulkarni AG, Patel AS, Agrawal V. Is long-segment fixation a rule in fractures associated with Ankylosing Spondylitis? Int Journal of Spine Surgery. Accepted, Ahead of Print
6. Patel AS, Ruparel S, Dusad T, Mehta G, Kundnani V. Posterior-approach single-level apical spinal osteotomy in pediatric patients for severe rigid kyphoscoliosis: long-term clinical and radiological outcomes. JNS Pediatrics Published online March 30, 2018
7. Minimally Invasive Microscope-Assisted Stand-alone Trans-Articular Screw Fixation without Gallie Supplementation in the management of Mobile Atlanto-axial Instability. Asian Spine Journal 2018;12(4):710-719
8. Motion preservation surgery: Excision of juxta C5-C6 intervertebral disc Osteoid Osteoma using 3D c-arm based Navigation: Technical report. SICOT-J 2018, 4, 56
9. Results of posterior Occiput-Cervical Decompression & Fusion in Basilar Invagination – IJSR Volume: 4 | Issue: 7 | July 2015 ISSN – 2277-8179
10. Dusad T, Patel AS, Mehta G, Kundnani V. Comparative prospective study reporting intra- operative parameters, pedicle screw perforation and radiation exposure in Navigation guided MIS TLIF versus Non-Navigated Fluoroscopy assisted MIS TLIF. Asian Spine Journal. Accepted 2017
11. Patel AS et al. Bertolotti's Syndrome - Diagnosis and Management- e-ISSN: 2279-0853, p-ISSN: 2279-0861. Volume 14, Issue 7 Ver. IV (July. 2015), PP 46-49
12. Feasibility and outcome of stand-alone trans-articular screw fixation in atlantoaxial instability in children less than 8 years of age. European Spine Journal 27(2) February 2018
13. An unusual case of intradural intramedullary dorsal bronchogenic cyst in spine. J Spine Surg 2017;3(3):514-518
14. A technical case report on use of tubular retractors for anterior cervical spine surgery. European Spine Journal 27(15) December 2017

- **Publications (Orthopedics):**

1. A case report of simultaneous bilateral anterior shoulder dislocation - IJSR Volume: 3 | Issue: 12 | Dec 2014 ISSN - 2250-1991
2. Sub-periosteal ganglion cyst in distal end radius in an adolescent – Journal of Hand Surgery (European Vol) do: 10.1177/1753193414566554
3. Results of PONSETI treatment in club foot of older children in India – IJSR ISSN - 2250-1991
4. Treatment of Recurrent Patellar Dislocation of Knee using Medial Patello-femoral Ligament Reconstruction- A Case Report -International Journal of Surgical Cases 2015 May-July:1(1): Page 6-8
5. Patel AS, Thaker P, Patel R, Ladumore M, Prabhakar MM. A rare case report of giant cell tumor of a tendon sheath. Int J Med Sci Public Health, [cited December 02, 2015]; Online First: 22 Oct 2015. doi:10.5455/ijmsph.2016.19082015114

- **Paper presentations:**

1. "To Plate or Not Is NOT A Question. Results with Non-Anchored Stand-Alone Titanium Cage Compared to Cage-Plate Constructs in One or Two Level Anterior Cervical Discectomy At 2 Year Follow-Up. – *Global Spine Congress Singapore 2018*
2. "Severe Rigid Kyphoscoliosis in Kids Its Different!!! Clinico Radiological Efficacy of Apical Spinal Osteotomy In 32 Paediatric Cases Over Long Term Follow Up." - *Global Spine Congress Singapore 2018*
3. Role of 3D C-arm based navigation in anterior surgical excision of Osteoid Osteoma of C 6 body: A novel Technique in anterior cervical surgery. – *CSRS Asia-Pacific 2018*
4. To Plate or Not Is NOT A Question. Results with Non-Anchored Stand-Alone Titanium Cage Compared to Cage-Plate Constructs in 1/2 Level Anterior Cervical Discectomy at 2 Year Follow-Up.- *ASSICON 2018*
5. Severe Rigid Kypho-scoliosis in Kids. Efficacy of Apical Spinal Osteotomy in 32 pediatric cases over mid-term follow-up. – 38th *SICOT World Orthopedic Congress 2017*

6. Comparative Clinico-radiological results of Single Level TLIF in Young vs. Elderly at 2-year follow- up – *38th SICOT World Orthopedic Congress 2017*
7. Quantification of bone graft required for interbody fusion in TLIF - CT based study of 100 subjects. – *ISSICON(Spinal Cord Society), New Delhi 2017*
8. Surgeon, Staff, and Patient Radiation Exposure in Minimally Invasive Transforaminal Lumbar Interbody Fusion: Impact of 3D CBCT-Based Navigation in Comparison to Conventional Fluoroscopy Aided Technique. Are we Reducing Enough? – *ISSICON, New Delhi 2017*
9. Minimally Invasive-Microscope Assisted Stand-Alone Trans-Articular Screw Fixation (MIS-TAS) Without Gallie Supplementation in the Management of Mobile AAI – *APSS Congress 2017*
10. Is Fluoroscopy reliable in Percutaneous MIS Fixation Technique? – *APSS Congress 2017*
11. Trans-articular Screw Fixation in C1-C2 instability. The Surgical Learning Curve – *APSS Congress 2017*
12. Does Increasing age deter outcomes of Spinal Interbody Fusion in Elderly, *ASSICON '17*
13. Reliability of C-arm Fluoro in Percutaneous Pedicle Screws (MIS Tech), *ASSICON '17*
14. Pedicle Dimensional Variations in High Grade Lytic-listhesis in Indian Population, *AOSpine*
15. Advanced Operative Course in Degenerative Spine, *SSHRI Ahmedabad 2016*
16. 'Use of Ilizarov method for fixation of Open Olecranon fractures' - *GOACON 2013*
17. 'Discoid Lateral Meniscus – Case series' - *GOACON 2013*
18. 'Innovative use of Ilizarov technique in open olecranon fractures' - *IGOF Indore 2014*
19. 'Arthroscopic, Magnetic Resonance Imaging and clinical evaluation of meniscal tears in patients with Chronic Anterior Cruciate Ligament Tears' - *Annual Meet of Ahmedabad Orthopedic Association 2015*

• **Poster presentations:**

1. *Fire the Wire!* Atlanto-axial trans-articular screw fixation without Gallie supplementation: A report on outcomes using morselized allograft as the sole graft material at 2-year follow-up.- *CSRS AP 2018*
2. Is Radiological Subsidence a Clinical Scare as Well? Results with Non-Anchored Stand-Alone Titanium Cage Compared to Cage-Plate Constructs in One or Two Level Anterior Cervical Discectomy at 2 Year Follow-Up. – *CSRS AP 2018*
3. Comparative prospective study reporting intra-operative parameters, pedicle screw perforation and radiation exposure in Navigation guided MIS TLIF versus Non-Navigated Fluoroscopy assisted MIS TLIF- *ASSICON 2018*
4. Surgeon, Staff & Patient Radiation exposure in MIS TLIF: Impact of 3D CBCT based Navigation vs 2D Fluoro aided technique. Are we reducing enough? – *APSS Congress 2017, Goa*
5. Role of Denosumab in Recurrent ABCs of Spine. A potential new treatment - *APSS Congress 2017*
6. Lumbar Total Disc Arthroplasty: Outdated Surgery or here to stay procedure? 10-year follow-up. - *ICS Kovalam 2017*
7. Denosumab: A potential new treatment option for recurrent Aneurysmal Bone Cyst of the Spine. – *ICS Kovalam 2017*
8. Severe Rigid Kyphoscoliosis in KIDS – It's Different!!!- *WIROC 2016*
9. Does Increasing age deter outcomes of Spinal Interbody Fusion in Elderly - *WIROC 2016*
10. Is Dural Leak a deterrent to outcomes in Spine Surgery - *WIROC 2016*
11. Reliability of C-arm Fluoro in Percutaneous Pedicle Screws (MIS Tech) - *MISSICON 2016*
12. 'Gaines's Procedure in L5-S1 Spondyloptosis - *WIROC 2013*.
13. Posterior Occipito-Cervical Decompression and Fusion in Basilar Invagination – *Global Spine Congress, Dubai 2015*

CME, Conferences & Workshops Attended

- 2023: MISSABCON | EndoCON
 2022: ASSION | MISSABCON | BSSCON | Indore EndoCon | Spine Update | WIROC
 2021: APSSCON | ASSICON | MISSABCON | WIROC | IOACON
 2019: ASSICON, Ahmedabad | TSSULA, Jaipur | Rajasthan Spine Course, Jaipur | BOSC, Mumbai | North-East OrthoCon, Nagaland |
 2018: ASSICON, Chennai | Cervical Spine Research Society – Asia Pacific, New Delhi | Spine Boot Camp, Cochin | Global Spine Congress, Singapore | NEWS, Mumbai | ASSI Live Surgery Course, New Delhi | BOSC, Mumbai | ICS, Amritsar | SRS Annual Meeting, Bologna Italy | AOSpine Advanced Oncology

course Utrecht, Netherlands | Dutch Spine Society Annual Meeting, Rotterdam | Aarhus Spine Research Meeting, Denmark

- 2017: 38th SICOT World Orthopaedic Congress, Cape Town, South Africa | ISSICON (International Spine & Spinal Injuries Conference), Delhi | Maharashtra Orthopaedic Association Conference, Mahabaleshwar | MISSICON, Chennai | 11th APSS -APPOS Combined Congress, Goa | SICOT Chinese Spine Section Meeting, Beijing, China | ICS, Kovalam | ASSICON, Hyderabad | IOACON, Indore | MOACON, Mahabaleshwar
- 2016: WIROC, Mumbai | MISSICON, New Delhi | Bombay Operative Spine Course, Bombay Hospital | AOSpine Advanced Operative Course in Degenerative Spine | Global Spine Congress 2016, Dubai
- 2015: AO Spine Principles Course, Coimbatore | ASSICON, Pune | IGOF Master's Course, Vijayawada | 'Symposium on Cervical Spine' Spine Association of Gujarat Workshop on Cervical Pedicle Screw Insertion -Dr Kuniyoshi Abumi | 'Bombay Operative Spine Course, Mumbai | Participated in GOACON, Junagadh | Training on Ponsetti method of club foot treatment Ponseti Institute & CURE Clubfoot India
- 2014: Co-conducted Spinal Deformity Symposium under aegis of Scoliosis Research Society | Cadaveric Workshop on Acetabular Fractures & Pelvic Injuries | Workshop on Basics in Knee & Hip Arthroplasty GOACON | P.G. Lecture course organized by Orthopaedic department of Maulana Azad Medical College, New Delhi | 'ORTHOTRENDS 2014', Shalby Hospitals
- 2013: WIROC, Mumbai | GOACON, Ahmedabad | Ilizarov Conference and course, Goa | Shoulder symposium on "Recent trends in management of Shoulder Disorders" | P.G. Lecture Course - Shalby Hospitals

Professional Memberships

- Association of Spine Surgeons of India [LM 2937]
- Indian Orthopedic Association [LM10702]
- AO Spine Asia Pacific [LM 740928]
- Asia Pacific Spine Society (APSS) & APOA [AM1147]
- Society for Minimal Invasive Spine Surgery [SMISS]
- Société Internationale de Chirurgie Orthopédique et de Traumatologie (SICOT) [ID 25480]
- North American Spine Society [ID 408510]
- Indian Medical Association [LM GUJ 24997]
- Bombay Orthopaedic Society [BOS - P / 273 / MUM]
- Bombay Spine Club [BSC -P/008 MAH]
- Indo German Orthopaedic Foundation [IGOF/129/07-2015]
- Association of Medical Consultants, Mumbai