

DR. PRATYUSH SHAHI

Associate Consultant- Spine Surgery

Qualification

MBBS (MAMC, New Delhi) | MS Orthopaedics (GTB Hospital, New Delhi) | AO Global Spine Diploma (Switzerland) | Fellowships in Minimally Invasive and Endoscopic Spine Surgery (HSS - New York, Wooridul - Seoul, Kolkata, Pune)

Overview

Dr. Pratyush Shahi is a globally trained spine surgeon at Manipal Hospital Mukundapur. In his practice of over 9 years, he has focused on minimally invasive and endoscopic spine surgery. His approach is firmly patient-first, emphasizing tiny incisions, less pain, faster recovery, and early return to daily activities. He strongly believes in shared decision-making, recommending spine surgery only when absolutely necessary and ensuring that patients clearly understand their condition and treatment options. With modern techniques, he believes spine surgery is safe, effective, and should not be scary. Dr. Shahi has performed over 1,000 spine surgeries with consistently excellent outcomes and low complication rates. He completed his MBBS from Maulana Azad Medical College, New Delhi, and MS Orthopaedics from UCMS & GTB Hospital, New Delhi, followed by structured subspecialty training in advanced minimally invasive spine surgery. He holds the AO Global Spine Diploma, awarded by AO Spine International (Switzerland), reflecting formal training in global spine

standards and evidence-based spine care. Dr. Shahi has undergone extensive fellowship training with a strong emphasis on endoscopic and minimally invasive spine surgery. He secured All India Rank #1 in the Association of Spine Surgeons of India (ASSI) Fellowship Entrance Exam. He was awarded the prestigious 2-year Patty & Jay Baker Endowed Minimally Invasive Spine Surgery Clinical Research Fellowship at the Hospital for Special Surgery (HSS), New York, USA where he had an excellent exposure to minimally invasive spine surgery using advanced technologies such as robotics and navigation. He further completed two dedicated endoscopic spine surgery fellowships at Wooridul Spine Hospital, Seoul, South Korea, a global leader in endoscopic spine surgery, and Saishree Hospital, Pune. In addition, he completed a comprehensive ortho-neuro combined spine surgery fellowship at the Institute of Neurosciences Kolkata, gaining experience in complex degenerative, deformity, and trauma cases, along with an AO Spine Asia-Pacific Clinical Fellowship at Kothari Medical Centre, Kolkata. Dr. Shahi is among the most academically active spine surgeons in India, with a strong focus on research in minimally invasive and endoscopic spine surgery. He has authored over 150 peer-reviewed publications and delivered more than 200 scientific presentations at national and international spine conferences. His work has been recognized by leading spine societies, including NASS, AO Spine, SMISS, AAOS, AANS, ISASS, KOMISS, WESS, and SSWB.

Fellowship & Membership

- Minimally Invasive and Endoscopic Spine Surgery Fellowship- Wooridul Spine Hospital, Seoul, South Korea.
- Patty and Jay Baker Endowed Minimally Invasive Spine Surgery Clinical Research Fellowship- Hospital for Special Surgery, New York, USA.
- AO Global Spine Diploma- Davos, Switzerland.
- Biportal Endoscopic Spine Surgery Fellowship- Saishree

Hospital, Pune.
- Comprehensive Ortho-Neuro Combined Spine Surgery Fellowship- Institute of Neurosciences, Kolkata.
- AO Spine Asia-Pacific Clinical Fellowship- Kothari Medical Centre, Kolkata.
- North American Spine Society (NASS).
- AO Spine.
- Asia-Pacific Spine Society (APSS).
- Society for Minimally Invasive Spine Surgery (SMISS).
- Association of Spine Surgeons of India (ASSI).
- Spine Society of West Bengal (SSWB).
- Indian Orthopaedic Association (IOA).
- Delhi Orthopaedic Association (DOA).
- West Bengal Orthopaedic Association (WBOA).
- Bihar Orthopaedic Association (BOA).
- Indian Medical Association (IMA).
- Delhi Medical Council (DMC).
- West Bengal Medical Council (WBMC).

Field of Expertise

- Minimally Invasive Spine Surgery
- Endoscopic Spine Surgery
- Keyhole Spine Surgery
- Fast-recovery and Day-care Spine Surgery
- Robotic and Navigated Spine Surgery
- Spine Injections and Pain Interventions
- Evidence-based Spine Care and Clinical Research

Languages Spoken

- English

- Hindi
- Bengali
- Maithili
- Bhojpuri

Awards & Achievements

- Awarded fellowships in minimally invasive and endoscopic spine surgery at world-renowned centres – Wooridul Spine Hospital, Seoul, South Korea and Hospital for Special Surgery, New York, USA.
- Over 150 publications in top spine journals and over 200 presentations at international and national spine conferences.
- All India Rank #1 in the Association of Spine Surgeons of India (ASSI) Fellowship Entrance Exam.
- Todd Albert Scholar Award for excellence in clinical research related to spinal disorders, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves; Miami, USA; 2023, 2024, 2025.
- Top Paper Award, International Society for the Advancement of Spine Surgery (ISASS) Annual Conference; Miami, USA; 2025.
- Best Paper Award, North American Spine Society (NASS) Annual Meeting; Chicago, USA; 2024.
- Top Paper Award, American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting; Las Vegas, USA; 2023.
- Best Paper Award, World Endoscopic Spine Society Conference (WESSCON); New Delhi, India; 2024.
- Gold Medal Paper Award, Spine Society of West Bengal Conference (SSWBCON); Kolkata, India; 2024.
- Recipient of the National Talent Search (NTS) Scholarship for 11 years; India; 2007-2017.

Talks & Publications

- Dr. Shahi has authored over 150 peer-reviewed publications and delivered over 200 talks, some of which are listed below.
- Publication: Ninety Percent of Patients Are Satisfied With Their Decision to Undergo Spine Surgery for Degenerative Conditions. Study from HSS, New York. Published in Spine. 2024.
- Publication: Practical answers to frequently asked questions in minimally invasive lumbar spine surgery. Study from HSS, New York. Published in The Spine Journal. 2023.
- Publication: Percutaneous Transforaminal Endoscopic Discectomy: Surgical Techniques, Indications, and Outcomes. Study from HSS, New York. Published in JBJS. 2025.
- Publication: Comparison of Robotics and Navigation for Clinical Outcomes After Minimally Invasive Lumbar Fusion. Study from HSS, New York. Published in Spine. 2023.
- Publication: Patient Perceptions After Elective, Outpatient Lumbar Spine Surgery: Do Patients Prefer Same Day Discharge or an Overnight Stay? Study from HSS, New York. Published in Spine. 2025.
- Publication: Transforaminal Endoscopic Thoracic Discectomy is More Cost-Effective Than Microdiscectomy for Symptomatic Disc Herniations. Study from Wooridul Spine Hospital, Seoul. Published in Neurospine. 2025.
- Publication: Technique and Outcomes of the Trans-Superior Articular Process Approach for Endoscopic Thoracic Discectomy. Study from Wooridul Spine Hospital, Seoul. Published in JNS Spine. 2025.
- Publication: Temporal Trends of Improvement After Minimally Invasive Transforaminal Lumbar Interbody Fusion. Study from HSS, New York. Published in Spine. 2024.

- Publication: Single-position Minimally Invasive Surgery for Correction of Adult Spinal Deformity. Study from HSS, New York. Published in JAAOS. 2023.
- Publication: Floor-Mounted Robotic Pedicle Screw Placement in Lumbar Spine Surgery: An Analysis of 1,050 Screws. Study from HSS, New York. Published in Neurospine. 2023.
- Talk: Ethnic Differences in Preoperative Paraspinal Muscle Health in Patients Undergoing Lumbar Spine Surgery: A Comparison of US and Indian Cohorts. SMISS AP Annual Conference. Mumbai, India. 2025.
- Talk: Transforaminal Endoscopic Thoracic Discectomy is More Cost-Effective Than Microdiscectomy for Symptomatic Disc Herniations. KOMISS Annual Conference. Daejeon, South Korea. 2024.
- Talk: Neuroforaminal Bone Growth Leads to Slower Improvement Following Minimally Invasive Transforaminal Lumbar Interbody Fusion. Global Spine Congress. Bangkok, Thailand. 2024.
- Talk: Robotics Versus Navigation for Minimally Invasive Transforaminal Lumbar Interbody Fusion. AANS/CNS Spine Section Spine Summit. Miami, USA. 2023.
- Talk: Factors Causing Delay in Discharge in Patients Eligible for Ambulatory Lumbar Fusion Surgery. AAOS Annual Conference. Chicago, USA. 2022.
- Talk: Robotics Reduces Radiation Exposure in Minimally Invasive Lumbar Fusion Compared to Navigation. SMISS Annual Meeting. Las Vegas, USA. 2022.