

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 highly skilled Spine Surgeon specializing in minimally invasive and endoscopic spine surgery, currently practicing at Manipal Hospitals Broadway. With extensive national and international training and over 9 years of clinical experience, he is known for providing advanced, patient-centric spine care using modern surgical techniques that focus on minimal tissue damage, reduced pain, faster recovery, and improved long-term outcomes. Spinal disorders are one of the leading causes of chronic pain and disability across the world. Conditions such as slipped disc, sciatica, cervical and lumbar spondylosis, spinal stenosis, degenerative spine diseases, spinal deformities, and spine trauma can significantly affect mobility and quality of life. Dr. Pratyush Shahi specializes in diagnosing and treating a wide range of spinal conditions with an emphasis on accurate diagnosis, conservative management whenever possible, and advanced surgical treatment only when required. His treatment philosophy ensures that patients receive the most effective and

appropriate care based on their individual condition. At Manipal Hospitals Broadway, Dr. Shahi provides comprehensive spine care using advanced diagnostic methods and the latest surgical technologies. His expertise lies particularly in minimally invasive spine surgery (MISS) and endoscopic spine surgery, two modern techniques that allow complex spine procedures to be performed through small incisions. These approaches reduce blood loss, minimize muscle damage, shorten hospital stays, and help patients return to their daily activities much sooner compared to traditional open surgeries. Many patients worry about spine surgery because they associate it with long recovery periods and high risk. Dr. Shahi strongly believes that with modern medical technology and precise surgical planning, spine surgery today is safer, more precise, and highly effective. He focuses on educating patients about their condition and treatment options so that they can make informed decisions about their health. This approach of shared decision-making and transparent communication builds trust and helps patients feel more confident about their treatment journey. Dr. Pratyush Shahi has performed more than 1,000 successful spine surgeries with consistently excellent clinical outcomes. His surgical expertise includes endoscopic spine surgery, minimally invasive spine procedures, keyhole spine surgery, robotic and navigation-assisted spine surgery, spinal fusion procedures, and spine injections for pain management. These treatments aim not only to relieve pain but also to restore spinal stability and improve overall functionality. In addition to surgical expertise, Dr. Shahi strongly emphasizes non-surgical treatment for spine conditions whenever possible. Many patients suffering from back pain or neck pain can benefit from physiotherapy, targeted exercises, medication, posture correction, lifestyle changes, and minimally invasive pain management procedures. By combining conservative treatment strategies with modern surgical solutions, he ensures that each patient receives a personalized and comprehensive treatment plan. Dr. Shahi completed his MBBS from Maulana Azad Medical College (MAMC), New Delhi, one

of India’s most prestigious medical institutions. He then pursued MS in Orthopaedics from UCMS and GTB Hospital, New Delhi, where he developed strong expertise in orthopedic and spinal disorders. To further enhance his skills in advanced spine surgery, Dr. Shahi underwent extensive international fellowship training at some of the world’s most renowned spine centers. He completed the prestigious Patty & Jay Baker Endowed Minimally Invasive Spine Surgery Clinical Research Fellowship at the Hospital for Special Surgery (HSS), New York, USA, where he gained exposure to advanced technologies such as robotic spine surgery and navigation-assisted procedures. He also completed specialized fellowships in endoscopic spine surgery at Wooridul Spine Hospital in Seoul, South Korea, which is globally recognized as a leader in minimally invasive spine surgery. Additionally, he underwent advanced spine training at Saishree Hospital in Pune, Institute of Neurosciences Kolkata, and Kothari Medical Centre Kolkata, further strengthening his expertise in both orthopedic and neuro-spine surgical approaches. Dr. Shahi holds the AO Global Spine Diploma from AO Spine International, Switzerland, reflecting his advanced training in evidence-based spine care and international surgical standards. He is also an active member of several prestigious medical organizations including the North American Spine Society (NASS), AO Spine, Asia-Pacific Spine Society (APSS), Society for Minimally Invasive Spine Surgery (SMISS), and the Association of Spine Surgeons of India (ASSI). Through these associations, he stays updated with the latest advancements and innovations in spine surgery and patient care. Apart from his clinical practice, Dr. Pratyush Shahi is widely respected for his academic contributions to spine research and medical education. He has authored more than 150 peer-reviewed publications in leading international spine journals and has delivered over 200 scientific presentations at national and international conferences. His research primarily focuses on minimally invasive spine surgery and endoscopic spine procedures, contributing to the advancement of modern spine

care globally. Dr. Shahi's work has been recognized with several prestigious awards and honors. He has received the Todd Albert Scholar Award for excellence in spine research, along with multiple best paper awards at international spine conferences including meetings organized by the International Society for the Advancement of Spine Surgery (ISASS) and the North American Spine Society (NASS). These recognitions highlight his dedication to innovation, research, and improving surgical outcomes for patients with spinal disorders. At Manipal Hospitals Broadway, Dr. Pratyush Shahi works closely with a multidisciplinary team of orthopedic specialists, neurologists, physiotherapists, pain management experts, and rehabilitation professionals to provide comprehensive and holistic spine care. This team-based approach ensures that every patient receives an individualized treatment plan designed to achieve the best possible recovery. Patients from Kolkata and across West Bengal visit Manipal Hospitals Broadway for expert consultation with Dr. Shahi because of his reputation for advanced surgical skills, international training, and compassionate patient care. His goal is to help patients overcome spine-related pain and disability while enabling them to regain mobility, confidence, and a better quality of life. With his global training, extensive research background, and patient-centered approach, Dr. Pratyush Shahi continues to be one of the trusted spine specialists in Kolkata, offering advanced minimally invasive and endoscopic spine treatments at Manipal Hospitals Broadway.

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.