



# **Weill Cornell Medicine**

## Center for Comprehensive Spine Care



### **IBRAHIM HUSSAIN, MD**

Assistant Professor, Neurosurgery

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### **SURGICAL SPECIALTIES & CLINICAL EXPERTISE**

Minimally Invasive Spine Surgery

Endoscopic Spine Surgery

Scoliosis

Spinal Stenosis

Spinal Fractures

Herniated Discs

Spinal Tumors

Complex Reconstructive Spine Surgery

Dr. Ibrahim Hussain is an accomplished neurosurgeon with advanced fellowship training in endoscopic, minimally invasive, and complex reconstructive spine surgery. Having trained with pioneers of neurosurgery at some of the top institutions in the world, Dr. Hussain both uses, and is involved in the development of, state-of-the-art intraoperative technologies that aim to make surgeries safer and less invasive, including three-dimensional computer-assisted navigation, endoscopy, robotics, and augmented reality. He has particular experience in performing spine surgeries using Enhanced Recovery After Surgery (ERAS) protocols, which aim to get patients home faster, with less pain, and with significantly reduced opioid use.

Dr. Hussain is also committed to advancing the field of neurosurgery and spine surgery through other avenues. He is actively engaged in research and the surgical education and training of Weill Cornell Medical College students, residents, and international fellows. He has published more than 30 book chapters on novel surgical techniques and disorders in neurosurgical textbooks used by trainees and surgeons around the world. Additionally, Dr. Hussain has been recruited as a surgical consultant for a number of regenerative medicine and biotechnology companies, in order to provide insight and expertise for the innovation of next-generation molecular treatments and medical device engineering in neurosurgery and spinal surgery.

In addition to his expertise for a subset of elite athletic patients with sports-related spinal injuries, Dr. Hussain is nationally recognized for his surgical treatment and research of traumatic brain injury. To this end, in 2022 he was officially appointed as the independent neurologic consultant for the NFL's New York Giants..

## TRAINING

Dr. Hussain received his BA from Rutgers University and his MD from Rutgers-New Jersey Medical School, where he was elected to the Alpha Omega Alpha Honor Society as one of the top medical students in his graduating class. He completed his residency in neurological surgery at the combined program at NewYork-Presbyterian/Weill Cornell Medical Center and Memorial Sloan Kettering Cancer Center. During his chief resident year, he was awarded the NewYork-Presbyterian Weill Cornell Medicine Distinguished Housestaff Award, awarded to those with both outstanding technical skills and compassionate bedside manner. This was followed by a minimally invasive and complex spine fellowship at the University of Miami and Jackson Memorial Hospital in Miami, Florida, which is among the busiest spine centers and Level 1 trauma centers in North America.

## RESEARCH

Dr. Hussain is prolific researcher with more than 160 peer-reviewed manuscript and abstract publications. He has been an invited speaker, moderator, and panelist at more than 40 national and international conferences to present his findings and insight, and he has won multiple awards from the American Association of Neurologic Surgeons (AANS) and Congress of Neurologic Surgeons Section on Disorders of the Spine and Peripheral Nerves. In 2022, he was named as one of four AO Spine North America Young Investigator Grant Award recipients, given to the most promising surgeons engaged in groundbreaking spine research.

Dr. Hussain collaborates with Dr. Roger Härtl and Dr. Larry Bonassar (in the biomedical engineering at Cornell University in Ithaca) on acellular and stem-cell based therapies for disc regeneration and repair with cervical and lumbar disc disease, which have resulted in several high-impact publications, grants, and awards. He also studies clinical outcomes from minimally invasive surgical techniques and technologies, including the identification of patient-centric and radiographic factors associated with surgical success and failures. These are performed through multi-center study groups to develop algorithms defining optimal patient selection. Finally, Dr. Hussain is also active in spinal oncology research, particularly in patients with metastatic spine disease, to develop comprehensive oncologic surgical/radiation treatment plans and scoring systems aiding in surgical decision making.

## CLINICAL LOCATIONS

Weill Cornell Medicine Center for  
Comprehensive Spine Care  
240 East 59th Street, 2nd floor  
(at Second Avenue)  
New York, NY 10022

Brooklyn: Sunset Park  
769 54th Street  
Brooklyn, NY 11220

Lower Manhattan  
156 William Street  
11th Floor  
New York, NY 10038



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Brain & Spine Center



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**Weill Cornell Medicine**  
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