

Joint Event  
3rd International Conference on  
**Spine and Spine Disorders**  
&  
International Conference on  
**Addiction Research and Therapy**

November 26-27, 2018 | Dubai, UAE



## **Malini Narayanan**

*National Neurosurgery Solutions, USA*

### **Minimally Invasive Spine Surgery Applied to Traumatic Spine Injury: My experience at University of Maryland Prince George Hospital, Second busiest trauma center**

**Introduction:** Traditionally, Traumatic Burst Fractures of the thoracic spine and lumbar spine are stabilized via an open Spine surgical approach. However, Minimally Invasive Spine Surgery is an adjunct and option to sick patients with multiple injuries.

**Methods:** Retrospective cases over from 2016-2018-year period are presented.


**Summary/conclusion:** Trauma patients with multiple injuries and fractures including the Spine are critically ill patients. Minimally Invasive Spine Surgery can be a good approach to reduce blood loss and tissue disruption in these critically ill patients in unstable spinal fractures. In this talk, I will be presenting application and my experience of Minimally Invasive Spine surgery to traumas.

#### **Speaker Biography**

Malini Narayanan is a Harvard-trained board-certified neurosurgeon who practices in the Washington D.C./ Maryland area. She is the recipient of the following awards: 2018 Top Doctor, 2017 America's top Surgeon, 2015 Washingtonian top Doc for Spinal Surgery, 2013 Vitals Patient Recognition, and 2007 America's Top Surgeon. As a practicing neurosurgeon

since 2007, her interests are cervical & lumbar spine disease, trauma, and brain tumours of adults. In the USA, she is one of approximately 450 board-certified female neurosurgeons in the country of approximately 6000 board-certified neurosurgeons. She founded and directs her practice, National Neurosurgery Solutions. Over the last twenty years, she has published numerous papers, posters and presentations at National Neurosurgery Conferences. She is an active member of the Congress of Neurological Surgeons, American Association of Neurological Surgeons and the Society for Minimally Invasive Spine Surgery. Her mission statement is "Patient first through dedication to the practice and advancement of neurosurgery". After receiving her undergraduate degree from University of Massachusetts (Amherst, Mass), she further continued her education through the master's degree program at Massachusetts Institute of Technology (Cambridge, Ma) in Electrical Engineering working on a retinal prosthesis for patients with Retinitis Pigmentosa. Her experience in Bioengineering spurred her interest in medicine, completing her medical degree at the University of Chicago's Pritzker School of Medicine (Chicago, Ill.) in 1998. Her relentless pursuit of excellence and love for neurosurgery led her to train in neurosurgery at the Harvard Medical School affiliated Brigham & Women's and Boston Children's Hospitals. There, she earned numerous accolades including the Congress of Neurological Surgeons Resident Research Award, 2003, where only two women have ever been awarded the accolade in the history of the award in the last 50 years. Returning to the University of Chicago, Dr. Narayanan augmented her surgical skills through a fellowship in paediatric neurosurgery at Comer's Children's Hospital (Chicago, Ill.), where she also completed her neurosurgical residency as chief resident.

e: [drmalininarayanan@nns.co](mailto:drmalininarayanan@nns.co)

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