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An unusual outcome of occipital cervical dislocation: Case Report

Malini Narayanan

National Neurosurgery Solutions, USA

The University of Maryland Prince George Hospital is the second busiest trauma center in the state of Maryland. Here, an unusual outcome of occipital cervical dislocation is presented with 1 year follow up. Pt is a 31y/o RH female s/p MVC accident and arrived with a GCS=3T. After resuscitation, improved GCS 2/T/3=6T with profound quadriparesis. MRI of c-spine showed Cranio-cervical dissociation with rupture of the transverse, the anterior and the posterior longitudinal and the interspinous ligaments. Large prevertebral hematoma at the Cranio-cervical junction and epidural hematoma in the cervical spinal canal both along the anterior and posterior aspects of the thecal sac with no significant anteroposterior cord compression. cord contusions involving the spinal cord at the Craniocervical junction. CT cspine the entire C1 vertebral body demonstrates superior displacement with respect to C2 by over 10 mm compatible with significant disruption of the paraspinal ligaments. Brain imaging revealed a fair amount of diffuse subarachnoid hemorrhage. Pt was taken urgently to OR for an occiput-c3 posterior fusion. After a very long recovery, Pt made a surprising recovery with GCS=15 and neurologically intact.

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@nss.co



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