

Comparison of Neuroendoscopic Evacuation vs Decompressive Craniectomy and Clot Evacuation in Management of Supratentorial Hypertensive Intracerebral Hematomas



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Abstract:

Supratentorial Hypertensive hematomas are the most common form of intracerebral hematomas. In spite of various surgical modalities to treat this problem, there is still no consensus on the definitive technique. Resource limited low middle income country setup like in India, require most optimal utilization of resources. Aim of our study was to analyze results of surgical modalities available to us to provide a rational advice regarding treatment of Supratentorial hypertensive hemorrhages in similar setups. We have retrospectively compared results of Neuroendoscopic vs Decompressive craniectomy with clot evacuation in treatment of Supratentorial hypertensive ICH conducted at our hospital in 72 patients over past 1 year (May 2018-April 2019). We utilized readily available silicone tube as tubular sheath which provided excellent visualization. In the endoscopy group M:F Ratio was 1.22:1, Average age was 52.1 years, Average Pre-op hematoma volume was 42.3 cc and average GCS was 8.4 while in Craniectomy Group, M:F ratio was 1:1, Average age 51.4 years, Average Pre-op Hematoma volume was 44.5 and pre-OP GCS was 8.1. In the Neuroendoscopy group, we found statistically significant reduction in operative time (72.65 mins vs 137 mins in craniectomy), less blood loss (198.25 ml vs 704.13 ml in craniectomy group and a better Hematoma Removal ratio (87.98 vs 80.38). The Average ICU stay (6d vs 8.1 day in open) was shorter. No statistically significant reduction in Mortality or GCS improvement was found. Lesser post-operative edema



was noted in the Neuro-endoscopy group. We hereby conclude that Neuro-Endoscopy for management of Supratentorial Hypertensive ICH provides a better Intra-operative

visualization, reduces brain trauma, better ICH evacuation and Shorter ICU stay.

Biography:

Dr. Payoz Pandey has completed his M.B.B.S from Manipal University and General surgical Training from Kolkata. He is currently pursuing his Post-Doctoral Training in Neurosurgery at Calcutta National Medical College. He has presented papers at various national level conferences and has been awarded best paper award at twice. He has special interest in Neuro-Endoscopic and Neuro-Vascular surgery. He is currently playing an active role in planning and organization of 2020 Neurosurgical society of India conference.

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