

Effect of decompressive craniotomy / craniectomy on CSF dynamics.

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Aim

study done to see consequences of decompressive craniotomy / craniectomy on CSF dynamics.

Introduction - cranial cavity is closed intracranial space bounded by eight flat skull bones and partitioned in to different intracranial spaces by dural folds. It has very significant role in CSF circulation in intracranial cavity which is clearly explained by very high incidences of pathologies arising in patients who are operated for decompressive craniotomies / craniectomies.

Materials and method – we retrospectively selected patients operated for head injuries in last seven years by decompressive craniotomy or craniectomy in single unit at our institute and studied incidence of disturbances in CSF circulation in form of formation of sub dural hygromas and hydrocephaleus. There were 96 such patients operated in this interval. We also reviewed literature available on this.

In this case, a patient who presented with aneurysmal sac size increase
Conclusion – intact cranial cavity is necessary for maintainance of CSF circulation as seen by high incidences of complications related to disturbance in CSF dynamics in patients operated by decompressive craniotomy / craniectomy. Disruption of integrity of cranial cavity causes dissipation of intracranial pressure required for maintainance of CSF circulation and dissipation of intracranial pressure results in accumulation of CSF in the form of hygromas and hydrocephalus. And it is very easy to manage these complications after decompressive craniotomy as compared to craniectomy.

Biography

I had completed my M.Ch. Neurosurgery in 2012 from Rajasthan University Of Health Sciences. Thereafter, since then, I am working as a consultant in Neurosurgery department at Pt. B. D. S. PGIMS, Rohtak. Although, I have interest in every subspeciality of Neurosurgery, but specifically, I am very much interested in vascular Neurosurgery.

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