

Decompressive craniectomy classification

Depending on the location of the affected area, different surgical decompression techniques have been developed. In the presence of diffuse brain edema without a [midline shift](#), as commonly seen in [traumatic brain injury](#), bilateral (eg, bifrontal) craniectomy has been advocated. [Hemicraniectomy](#), or removal of a frontotemporoparietal bone flap, is suitable in patients with unilateral hemisphere swelling as seen after [ischemic stroke](#) ¹⁾.

Accumulating experience over the years has led to increasing refinement of the surgical technique. The size of the removed bone fragment has been recognized as a factor of crucial importance for the generation of a sufficient decompressive effect ²⁾.

see [Hemicraniectomy](#)- Unilateral decompressive craniectomy

see [Bifrontal decompressive craniectomy](#)

see [Decompressive craniectomy for infants](#)

see [Suboccipital Decompressive Craniectomy](#)

¹⁾

Hutchinson P, Timofeev I, Kirkpatrick P. Surgery for brain edema. Neurosurg Focus.2007;22:E14

²⁾

Wagner S, Schnippering H, Aschoff A, Koziol JA, Schwab S, Steiner T. Suboptimum hemicraniectomy as a cause of additional cerebral lesions in patients with malignant infarction of the middle cerebral artery. J Neurosurg.2001;94:693-696

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