

# Drainage

see

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[External lumbar cerebrospinal fluid drainage](#)

[Subdural Evacuating Port System](#)

[Surgical drain](#)

[Ventricular drainage](#)

[Microcisternal drainage](#)

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[Patients](#) often report sounds in the [head](#) after [craniotomy](#).

In a prospective [observational study](#) of patients undergoing [craniotomy](#) with [dural](#) opening. Eligible patients completed a questionnaire preoperatively and daily after surgery until discharge. Subjects were followed up at 14 days with a telephone consultation.

One hundred fifty-one patients with various pathologies were included. Of these, 47 (31 %) reported hearing [sounds](#) in their head, lasting an average 4-6 days (median, 4 days, mean, 6 days, range, 1-14 days). The peak onset was the first postoperative day and the most commonly used descriptors were 'clicking' [20/47 (43 %)] and 'fluid moving' in the head [9/47 (19 %)]. A significant proportion (42 %, 32/77) without a [wound drainage](#) experienced intracranial sounds compared to those with a drain (20 %, 15/74,  $p < 0.01$ ); there was no difference between suction and gravity drains. Approximately a third of the patients in both groups (post-craniotomy sounds group: 36 %, 17/47; group not reporting sounds: 31 %, 32/104), had postoperative CT scans for unrelated reasons: 73 % (8/11) of those with [pneumocephalus](#) experienced intracranial sounds, compared to 24 % (9/38) of those without pneumocephalus ( $p < 0.01$ ). There was no significant association with craniotomy site or size, temporal bone drilling, bone flap replacement, or filling of the surgical cavity with fluid.

Sounds in the head after cranial surgery are common, affecting 31 % of patients. This is the first study into this subject, and provides valuable information useful for consenting patients. The data suggest [pneumocephalus](#) as a plausible explanation with which to reassure patients, rather than relying on anecdotal evidence, as has been the case to date <sup>1)</sup>.

<sup>1)</sup>

Sivasubramaniam V, Alg VS, Frantzias J, Acharya SY, Papadopoulos MC, Martin AJ. 'Noises in the head': a prospective study to characterize intracranial sounds after cranial surgery. Acta Neurochir (Wien). 2016 Aug;158(8):1429-35. doi: 10.1007/s00701-016-2872-7. Epub 2016 Jun 21. PubMed PMID: 27328839.

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