

Sedative

see [Sedative for traumatic brain injury](#).

[Isoflurane](#)

[Midazolam](#)

Flumazenil

Neuronal survival and functional recovery are reduced by sedative use in a rat model of acute brain injury.

[Sedatives](#) and [opioids](#) used during [deep brain stimulation](#) (DBS) surgery interfere with optimal [target](#) localization and add to [side effects](#) and [risks](#), and thus should be minimized.

To retrospectively test the actual need for sedatives and opioids when cranial nerve blocks and specific therapeutic communication are applied.

In a case series, 64 consecutive patients Zech et al. from [University Hospital Regensburg](#), treated with a strong rapport, constant contact, non-verbal communication and hypnotic suggestions, such as dissociation to a "safe place," reframing of disturbing noises and self-confirmation, and compared to 22 preceding patients under standard [general anesthesia](#) or [conscious sedation](#).

With introduction of the [protocol](#) the need for [sedation](#) dropped from 100% in the control group to 5%, and from a mean dose of 444 mg to 40 mg in 3 patients. [Remifentanyl](#) originally used in 100% of the patients in an average dose of 813 µg was reduced in the study group to 104 µg in 31% of patients. There were no haemodynamic reactions indicative of [stress](#) during incision, [trepanation](#), [electrode](#) insertion and closure.

With adequate therapeutic communication, patients do not require sedation and no or only low-dose opioid treatment during DBS surgery, leaving patients fully awake and competent during surgery and testing ¹⁾.

¹⁾

Zech N, Seemann M, Seyfried TF, Lange M, Schlaier J, Hansen E. Deep Brain Stimulation Surgery without Sedation. Stereotact Funct Neurosurg. 2018 Dec 5:1-9. doi: 10.1159/000494803. [Epub ahead of print] PubMed PMID: 30517938.

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