

# Olfactory function

The [olfactory system](#) provides numerous [functions](#) to [humans](#), influencing ingestive [behavior](#), awareness of environmental hazards, and social communication. Approximately  $\frac{1}{5}$  of the general population exhibits an impaired sense of smell.

After transsphenoidal [pituitary adenoma](#) resection patients have reduced olfactory function and [quality of life](#).

Mu et al. aimed to evaluate the effects of nasal [irrigation](#) on the nasal-related quality of life in patients undergoing transsphenoidal pituitary adenoma resection. Patients undergoing transsphenoidal resection of pituitary adenomas in a tertiary hospital in China were included. The patients were randomly divided into a control group and a nasal irrigation group according to the random sequence generated by the SPSS22.0 software. The 22-item sino-nasal outcome test (SNOT-22) was used to evaluate the nasal-related quality of life; lower SNOT-22 scores indicate a higher quality of life. The Toyota and Takagi (T&T) olfactometer test was used to evaluate the olfactory function of patients. Results: A total of 82 patients were finally included. The SNOT-22 scores of both groups after surgery were significantly higher than those before surgery ( $p < .05$ ). The total SNOT-22 score of nasal irrigation group at one month ( $23.45 \pm 3.72$  vs.  $27.48 \pm 4.07$ ) and three months ( $15.83 \pm 2.86$  vs.  $21.82 \pm 3.36$ ) after surgery was lower than that in the control group ( $p < .05$ ). There was no significant difference in olfactory function between the two groups at one month and three months after surgery ( $p > .05$ ). The nasal mucosal score in the nasal irrigation group was significantly improved compared with the control group at one month and three months after surgery ( $p < .05$ ). Conclusion: Nasal irrigation is associated with improved quality of life in patients undergoing transsphenoidal pituitary adenoma resection compared with the control group <sup>1)</sup>.

<sup>1)</sup>

Mu A, Ni Z, Ma C. Nasal Irrigation Improves the Nasal Related Quality of Life in Patients Undergoing Transsphenoidal Resection of Pituitary Adenoma. Biol Res Nurs. 2023 Dec 11:10998004231221548. doi: 10.1177/10998004231221548. Epub ahead of print. PMID: 38079151.

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