Custom-made Septal Buttons in the Treatment of Nasal Septal Perforation

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Introduction
- Septal perforations can be frustrating for patients and challenging for nasal surgeons, as surgical repair can be challenging.
- The results of surgeries are unsatisfying, therefore the attention is concentrated on other therapeutic possibilities, such as septal buttons (prosthesis).

Methods
- The patients with nasal septal perforation (independently of the cause of perforation) were included in the study between 2015-2016.
- The buttons were made from medical silicon by 3D printing technology according to the patient’s CT scan of septum (paranasal sinuses).
- The application into the perforation was done under local anesthesia under endoscopic control.
- The symptoms before insertion and 6 months after insertion of button (prosthesis) were evaluated (VAS).

Results
- 17 patients were treated with this new therapeutic method
- Excellent therapeutic effect
- No dislocation

Advantages of buttons
- Optimal size and shape
- No movement in the nose
- Very good tolerance

Conclusions
The therapy with 3D custom made septal buttons (prosthesis) appears to be a very effective and promising therapeutic method in the treatment of septal nasal perforations. The results seem to be much better than results of surgical treatment.

The presentation was supported by the Institutional Support of the Ministry of Health RVO FNOs/2018

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