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.

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