Expression of ADAM10 and ADAM17 in nasal polyp

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Objectives
To assess the roles of ADAM 10 and ADAM 17 in nasal polyps by assaying for expression of these materials.

Methods
The expression of ADAM 10 and 17 was investigated in the nasal polyps undergoing endonasal sinus surgery and compared with that in inferior turbinate mucosa samples obtained from non-allergic hypertrophic rhinitis patients. Tissue samples were analyzed by Western blotting and immunohistochemical staining.

Results
The expression of ADAM 10 and 17 protein was significantly higher in inferior turbinate than in nasal polyp (P < 0.05). ADAM 10 and were detected most commonly in the cytoplasm. Lining epithelium of nasal polyp showed decreased expression of ADAM 10 and 17. In the submucosa, ADAM 10 and 17 were found in glandular cells, but ADAM 10 and 17 expression was mostly detected in inflammatory cells in submucosa.

Conclusion
We suggest that decreased ADAM 10 and 17 proteins may contribute to develop of nasal polyps and abnormal structural tissue remodeling in nasal polyps.