

Charakterystyka budowy molekularnej fałdu głosowego

The characteristic of vocal fold molecular structure

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Summary

Introduction: The authors present the layer structure of the vocal fold (by Hirano) indicating at the same time its clinical usefulness in laser chordectomy. **Materials and methods:** The authors describe the structure of the basement membrane sphere, i.e. the connection between the epithelium and the superficial layer of lamina propria, and the molecular structure of the extracellular matrix of mucosa. **Results:** The biomechanical significance of fibre proteins and the extracellular matrix is emphasized with special attention paid to hialuronic acid and fibronectin. **Conclusions:** Knowing the ultra-structure of the epithelium mucosa connection helps in understanding the mechanism of F0 production. The disorders in cooperation of the biomolecules of lamina propria of the vocal folds can influence the biomechanics of phonation.