Paradoxical vocal cord motion: Outcome of conservative treatment

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Objective: This article reports the outcome of conservative management program for Paradoxical Vocal Fold Motion (PVFM) in twenty adolescent patients previously diagnosed as refractory asthma.

Study design: A prospective observational follow up study

Methods: Twenty consecutive referrals of refractory asthma patients diagnosed as having PVFM assessed, treated and followed for at least 6 months after treatments

Results: Most of the patients showed irritable larynx, 80% of patients had adduction of the vocal folds during inspiration, 50% had posterior glottis congestion and 100% had a constriction of the supraglottic area during inspiration. There are highly significant differences in the scores of both self-reported questionnaire and laryngeal parameters before and after therapy with lowering the scores after voice therapy

Conclusion: There are many parameters at laryngeal examination which could be used for diagnosis of paradoxical vocal fold motion in between attacks. Voice therapy with Psychological counseling and anti-reflux measures are very effective in controlling the manifestation of PVFM.

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Totally implantable hearing implants: Few keys for the future?

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In totally implantable hearing device, the sensor (microphone) and stimulator position and coupling affect the functionality. A correct impedance matching and potential optimal positions are therefore vital.

We present the different steps of development:

- The cadaver experiments and results for subcutaneous and middle ear microphone and stimulators.
- The implementation of the surgical technique.
- The clinical applications and results for acoustic implants performances and subcutaneous microphone in cochlear implants
- We discuss the general philosophy of totally implantable hearing device development.

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