



Treatment—Minimize harm to patients

Seapopinna

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Model **CZB** Ultrasound Therapeutic Device for Rhinitis

Breathe Freely Again

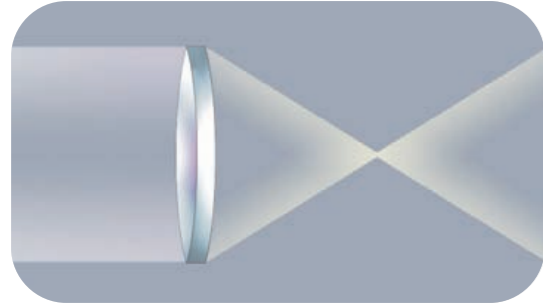
Seapopinna

This is a brand-new non-invasive solution for Allergic Rhinitis which is a refractory disease in E.N.T. department. An ultrasonic beam can be applied to ablate deep seated lesion without damaging the superficial tissue of nasal mucosa.

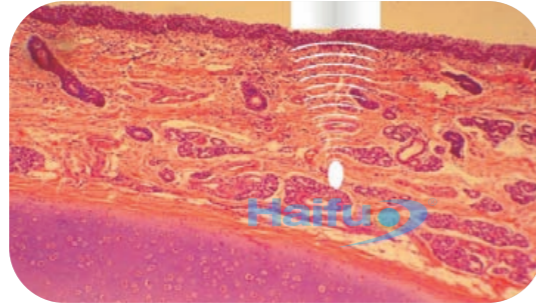


Principle of Focused Ultrasound Therapy

An ultrasonic beam can be directed to nasal submucosa, resulting in an instant temperature rise to above 65°C. The resultant thermal and cavitation effect can lead to coagulative necrosis of the targeted tissue including the over-reactive vessels, nerves, and glands at the focal region while the superficial tissue of nasal mucosa is spared.



Sun beam was focused by convex lens, likewise, ultrasound can be focused by a transducer

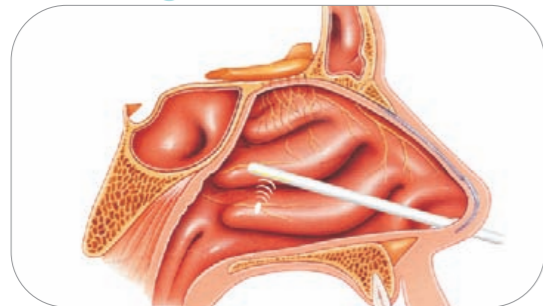


Ultrasound beam pass through epithelium tissue of nasal mucosa

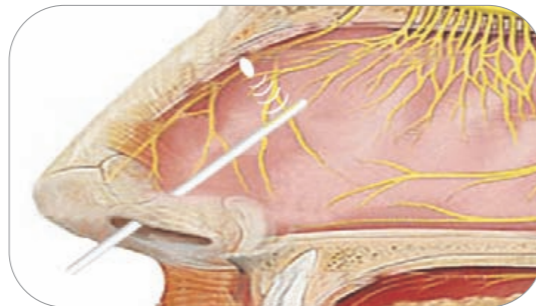
Indication

Allergic rhinitis

Treated region



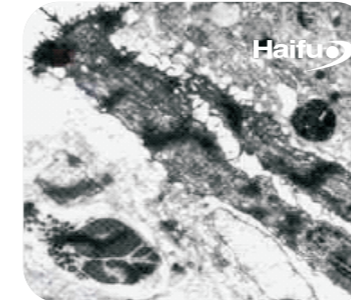
Inferior turbinate



Nasal septum

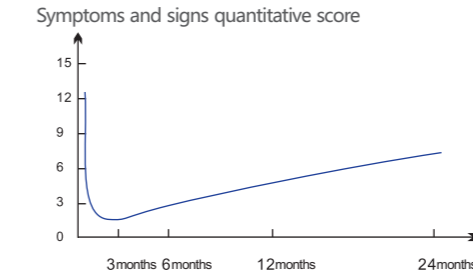
Clinical advantages

1. Non-invasive treatment without damage to nasal mucosa and cilium



Nasal mucosa and cilium are well preserved after treatment

2. Persistent and stable efficacy



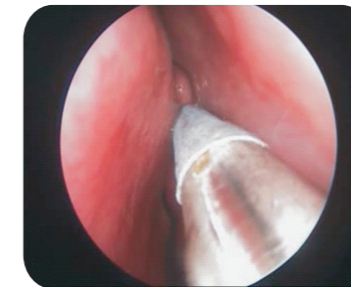
3. Repeatable treatment



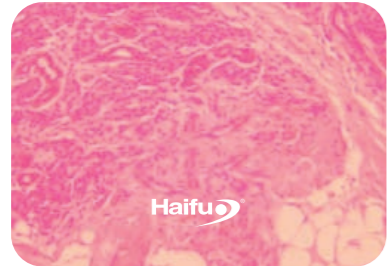
4. Patient friendly treatment without radiation or smog



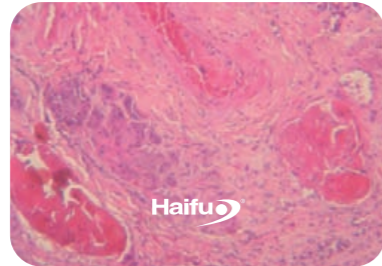
Image of Live Treatment



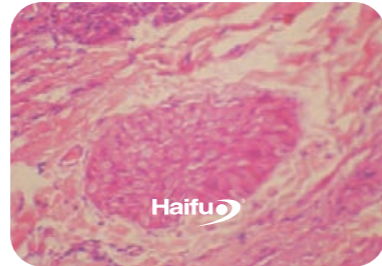
Treatment rationale



In the treated region, coagulative necrosis can be achieved on glands or partial cells of glands, which will decrease the gland secretion, therefore alleviate rhinorrhea.



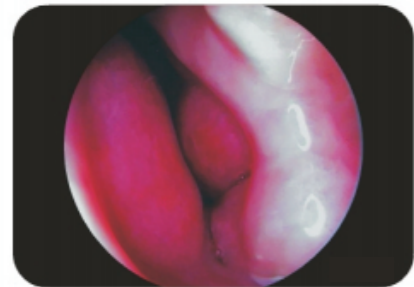
Endothelial cells of vasculature can be necrotized by focused ultrasound and form thrombus which will block the entire or partial vasculature, therefore alleviate rhinorrhea.



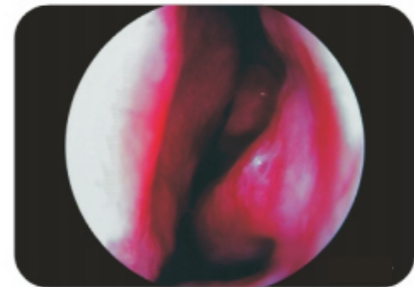
Deep seated ganglion cells and nerve fibers of nasal mucosa can be necrotized by focused ultrasound. Nerve excitability will decrease and the symptoms including rhinorrhea and sneezing will be alleviated.

Zhu Jin, Li Dong. Effect of focused ultrasound on morphology of nasal mucosa of sheep. CHINESE ARCHIVES OF OTOLARYNGOLOGY AND HEAD NECK SURGERY/April 2006, Vol. 13, No. 4 241

Comparison between pre-treatment and post-treatment



pre-treatment



post-treatment

4 weeks after treatment, the hypertrophic inferior turbinate of the patient decreased, the effective breathing area of the nasal cavity increased, and so the symptom of rhinorrhea was relieved.

Comprehensive solutions



Professional Focused Ultrasound Device
Completely independent intellectual property



Experienced Specialists
Professional clinical and engineering support and training



Customized solutions
Clinical solution, business solution, marketing solution and service solution