



DERMATOLOGICAL SURGERY

SUCCESSFUL TREATMENT OF EXTENSIVE VENOUS MALFORMATION OF THE ORAL CAVITY WITH CRYOSURGERY

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Background: Vascular malformations are the third most common vascular anomalies of the head and neck area, after infantile hemangiomas and lymphatic malformations. They are often located on the lower lip and oral mucosa and may be associated with pain and swelling due to venous stasis and microthrombosis. Treatment options include sclerotherapy, surgical excision, laser ablation and cryosurgery.

Observation: A 9-year-old female had a history of a progressively growing lesion on her right oral mucosa, first noticed when she was 2 years old. The lesion was a soft violaceous mass close to her right oral commissure that could be easily traumatized during mastication. Doppler ultrasound revealed a vascular regular septated lesion measuring 23 x 16 x 28 mm, that exhibited predominantly venous flow. Due to the progressive growth and possibility of trauma and bleeding, treatment with cryosurgery was indicated. Cryosurgery with a 2 cm probe was performed under general anesthesia, dividing the lesion into 2 portions, that were submitted to freeze cycles of 45 and 60 seconds, and thaw cycles of 2 minutes 45 seconds, and 4 minutes respectively. As expected, the patient subsequently developed significant edema of the treated area. Antibiotics and prednisone were prescribed for 7 days postoperatively. Complete healing took 4 weeks, but a small violaceous lesion persisted. A second cryosurgery procedure was then performed under local anesthesia, again with a 2 cm probe, freeze cycle of 45 seconds and thaw cycle of 3 minutes. Complete healing occurred in 3 weeks, with great aesthetic results.

Key message: Multiple treatment modalities are available for vascular malformations. Cryosurgery remains an effective and low-cost therapeutic alternative, that can provide favorable functional and aesthetic results.

