


Images for Diagnosis

Yellowish oral mass occurring after nasolabial dermal filler

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Abstract – Intra-oral lesion of the lower lip occurred two months after nasolabial folds dermal filler. The lesion appeared as a yellowish submucosal painless mass of approximately 15mm on the intraoral side of the inferior lip. An incisional biopsy was performed and definitive diagnosis of foreign body reaction to calcium hydroxyapatite was made. The lesion underwent complete spontaneous regression within eight months.

A 55-years old woman reported intra-oral lesion of the lower lip occurring approximately 2 months after nasolabial folds dermal filler injections (Radiesse®, Bioform Inc, USA). No drugs intake nor systemic diseases were referred by the patient.

At the clinical examination a yellowish submucosal painless mass of approximately 15mm has been detected on the intraoral left side of the inferior lip, covered by clinically healthy oral mucosa. The lesion appeared soft and elastic on palpation while no cervical lymphadenopathy was detectable.

A superficial incision was performed along the oral mucosal aspect of the lower lip, exposing white and rubbery consistency material which was attached to the surrounding connective tissue. An incisional biopsy was performed, and the histopathological examination identified finely granular, yellowish / non-dyeable, partly birefringent material, consistent with exogenous material.

A definitive diagnosis of foreign body reaction to calcium hydroxyapatite, contained in the dermal filler, was made. The lesion underwent complete spontaneous regression within eight months, with no further surgical intervention.



Fig. 1. Submucosal lesion of the lower lip.

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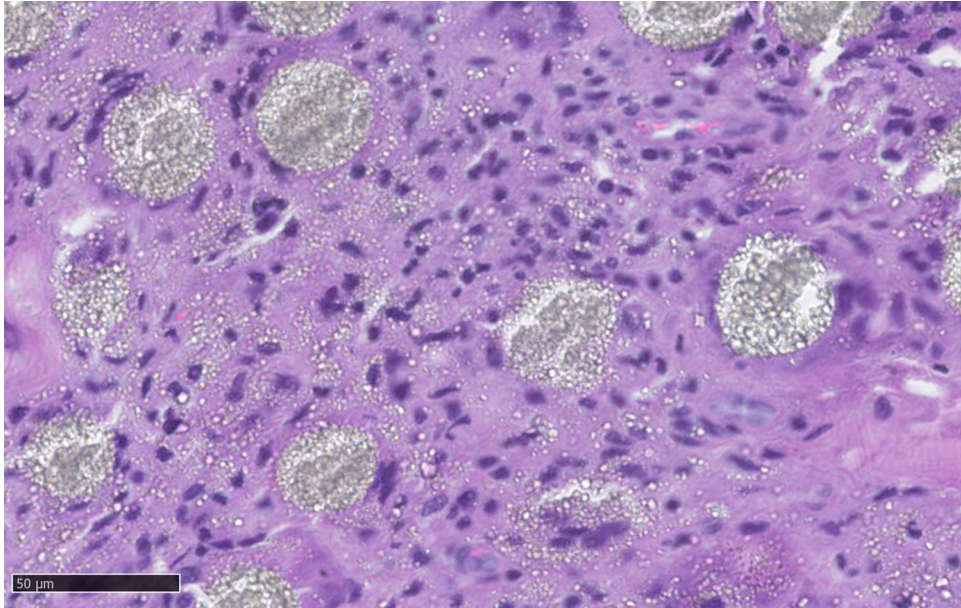


Fig. 2. Histopathological image of the sample.



Fig. 3. Complete resolution of the lesion at 8 months.

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Conflict of Interests

Authors have no conflict of interests to disclose.

Data availability statement

The data that support the findings of this study are available on request from the corresponding author, [NL].

Author contribution statement

N.L. wrote the manuscript, collected the clinical data and followed the patient during diagnosis and treatment. G.L. reviewed the manuscript and followed the patient during diagnosis and treatment.

Informed consent

The study was conducted in compliance with the recognized international standards, including the principles of the Declaration of Helsinki. Data and samples were collected under patient's informed written consent, guaranteeing anonymity.