

Journal Pre-proof

Not an allergy: Iodine contrast-induced acute sialadenitis after coronary angiography

Victor Vallejo-Garcia Óscar Fabregat-Andrés Ana Lainez-Nuez



PII: S0870-2551(24)00265-8

DOI: <https://doi.org/doi:10.1016/j.repc.2024.06.002>

Reference: REPC 2367

To appear in: *Revista Portuguesa de Cardiologia*

Received Date: 12 June 2024

Accepted Date: 26 June 2024

Please cite this article as: Vallejo-Garcia V, Fabregat-Andrés Ó, Lainez-Nuez A, Not an allergy: Iodine contrast-induced acute sialadenitis after coronary angiography, *Revista Portuguesa de Cardiologia* (2024), doi: <https://doi.org/10.1016/j.repc.2024.06.002>

This is a PDF file of an article that has undergone enhancements after acceptance, such as the addition of a cover page and metadata, and formatting for readability, but it is not yet the definitive version of record. This version will undergo additional copyediting, typesetting and review before it is published in its final form, but we are providing this version to give early visibility of the article. Please note that, during the production process, errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

© 2024 Sociedade Portuguesa de Cardiologia. Published by Elsevier España, S.L.U.

Not an allergy: Iodine contrast-induced acute sialadenitis after coronary angiography

Não é uma alergia: sialadenite aguda induzida por contraste iodado após angiografia

Victor Vallejo-Garcia^{a,*}, Óscar Fabregat-Andrés^a, Ana Lainez-Nuez^b

^aCardiology Department, Hospital IMED Valencia, Burjassot, Spain

^bAllergology Department, Hospital IMED Valencia, Burjassot, Spain

*Corresponding author

E-mail address: vvallejo@imedhospitales.com (V. Vallejo-Garcia)

Acute sialadenitis (AS) is an uncommon adverse reaction to intravenous iodine contrast. It causes painful, firm, bilateral gland inflammation that is usually confused with an allergic reaction. The mechanism is unknown, and a heterotrophic elimination of iodine contrast through the salivary glands was proposed as a probable cause. It usually resolves in a few days with no long-lasting side effects. There are less than 80 cases published in the available literature, but with the increasing use of iodine contrast it is important be familiar with this condition.

We present the case of a 73-year-old patient, with a previous history of hypertension and atrial fibrillation, who went to the cardiology department for chest pain. A computed tomography coronary scan showed significant coronary artery disease in the anterior descending artery (ADA). Following the procedure, the patient developed a painful swelling of the submandibular glands, which was treated with intravenous corticosteroids.

Afterwards the patient went to the allergology department to rule out angioedema secondary to iodine contrast, as she needed an angiogram. Cutaneous prick and submandibular glands with lomeprol, loversol and loperamide were negative so a diagnosis of AS was considered.

The patient received fluids, intravenous antihistamines and corticosteroids before the angiogram, but after the procedure in which a stent was placed in her ADA, she developed a new episode of AS (Figure 1). The diagnosis of AS was confirmed by a salivary gland ultrasound. The patient recovered and was discharged 72 hours after admission with no side effects.

Ética de la publicación

1. ¿Su trabajo ha comportado experimentación en animales?:

No

2. ¿En su trabajo intervienen pacientes o sujetos humanos?:

No

3. ¿Su trabajo incluye un ensayo clínico?:

No

4. ¿Todos los datos mostrados en las figuras y tablas incluidas en el manuscrito se recogen en el apartado de resultados y las conclusiones?:

Sí

Journal Pre-proof



Figure 1. Bilateral, firm swelling of submaxillary glands (predominantly the left submaxillary gland) and ultrasound images showing diffuse and homogeneous enlargement of tissue with no nodular lesions, increased vascularization and no obstruction in the excretory ducts consistent with non-infectious sialoadenitis.