Subacute Radiation Dermatitis Secondary to Cardiac Resynchronization Device Implantation

Radiodermitis Subaguda Secundaria a Implante de Resincronizador Cardiaco

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The images correspond to a 53-year-old male patient, referred to our center to have his cardiac resynchronization therapy defibrillator (CRT-D) checked. He had a history of idiopathic dilated cardiomyopathy, permanent atrial fibrillation with complete left bundle branch block, heart failure in FC III, and severe left ventricular dysfunction (EF = 23%).

In 2012, the patient underwent the first CRT-D implantation in his home province. Surgery was prolonged, lasting for about 6 hours. The coronary sinus catheter could not be placed, so the device was programmed as defibrillator.

Physical examination revealed an ulcerated tumor lesion with raised erythematous edges and fibrinous base of 15 × 12 cm in the right dorsal region, which, as referred by the patient, had appeared about 6 months after the procedure.

The location of the lesion coincided with the left anterior oblique position of the fluoroscopic tube, commonly used for coronary sinus catheter placement.

Given the nature of the lesion, it seems to be subacute radiation dermatitis. Radiation dermatitis usually occurs within 2 to 12 months after the procedure.

Subacute lesions include from erythema and local scaling, similar to that in acute radiation dermatitis, to necrotic ulceration of the deep skin layers. Lesions also involve irritation, and cause long-term pigmeny changes and loss of skin annexes. About 20% of the cases can progress to ulcers with irregular edges and neoplastic lesions. (1, 2)

Its occurrence depends on the radiation dose in the area, requiring > 8 Gy for lesions similar to those observed in this case. (3) Several factors can increase sensitivity to radiation, in addition to individual susceptibility, certain drugs (amiodarone, fibrates, actinomycin, and methotrexate), collagen diseases, immunosuppressive diseases, diabetes, and malfunctioning of radiology equipment. (4, 5) Of all these factors, only amiodarone intake was present in our patient. On the other hand, some skin areas are more vulnerable than others, mainly the axillary, pectoral, and dorsal areas, as was the case in our patient. (6)

Conflicts of interest
None declared.

REFERENCES


