



## Clinical Image

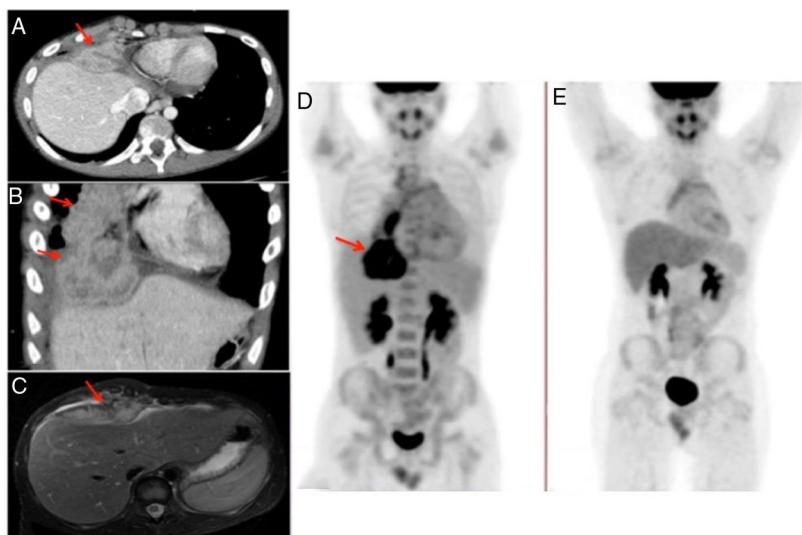
### Anterior mediastinal mass associated with febrile syndrome as a single manifestation of IgG4-related disease<sup>☆</sup>



Masa mediastínica anterior asociada a síndrome febril como única manifestación de enfermedad relacionada con IgG4

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**Fig. 1.** Chest-abdomen-pelvis computed tomography with intravenous contrast in axial (A) and coronal (B) planes, showing the anterior mediastinal mass with heterogeneous enhancement and an infiltrative appearance (red arrows). T2-weighted MRI image with fat suppression (C) identifying the hyperintense anterior mediastinal mass (red arrow). The lesion was markedly hypermetabolic on the initial PET/CT images (SUVmax = 11.9) (D) and disappeared on PET/CT after 4 months of treatment (E).

A 14-year-old boy with no significant clinical history consulted with a 6-month history of febrile syndrome. Labs were significant for leukocytosis and elevated C-reactive protein and serum IgG levels, specifically IgG4. Computed tomography, magnetic resonance imaging, and PET/CT showed a right paradiaphragmatic anterior mediastinal mass of infiltrating appearance with intense heterogeneous enhancement (Figs. 1A–C) and marked hypermetabolism (Fig. 1D). Pathology study of a percutaneous biopsy revealed an inflammatory lesion associated with IgG4-related disease. The clinical picture resolved completely after 4 months of treatment with glucocorticoids (Fig. 1E).

IgG4-related disease is an entity associated with autoimmune mechanisms, characterized by elevated IgG4 serum levels, fibrosis, tissue infiltration by IgG4-secreting plasma cells, and response to glucocorticoids<sup>1</sup>.

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Mediastinal involvement usually manifests as lymphadenopathies, either in isolation or concomitantly with the enlargement of other organs<sup>1</sup>. Presentation in the form of a mass is exceptional<sup>2</sup>.

In the case of a patient with a mediastinal mass, IgG4-related disease should be included in the differential diagnosis. Proper diagnosis and conservative treatment can prevent unnecessary invasive diagnostic or therapeutic procedures and their associated comorbidities.

## References

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2. Yoshikawa R, Igai H, Ohsawa F, Yazawa T, Kamiyoshihara M. Immunoglobulin G4 related disease association with an isolated anterior mediastinal tumor. Ann Thorac Surg. 2019;107:405–7, <http://dx.doi.org/10.1016/j.athoracsur.2018.10.026>.