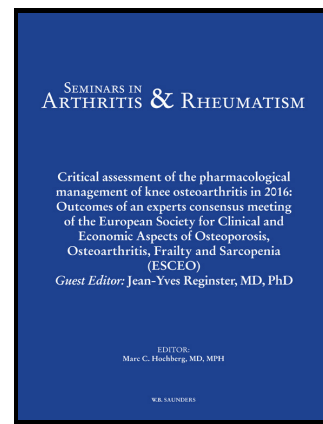


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The value of ^{18}F -FDG PET CT in the distinction between retroperitoneal fibrosis and its malignant mimics, and evaluation of the overlap with IgG4-related disease

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Conflict of Interest

The authors received no funding from external sources and report no conflicts of interest in this work

Key words

Retroperitoneal Fibrosis

Malignancy

IgG4-Related Disease

Positron Emission Tomography

Diagnosis

Objective: To discuss the utility of ^{18}F -fluorodeoxyglucose (FDG) positron emission tomography/computerized tomography (PET/CT) in the diagnosis and organ involvement evaluation of idiopathic retroperitoneal fibrosis (iRPF).

Methods: IRPF patients diagnosed between September 2011 and June 2016 were included. Retroperitoneal malignancy patients were included as control group. The morphological features and FDG uptake of retroperitoneal lesions were measured along with lymph node (LN) mapping. Extra-RPF organs were compared between iRPF patients with elevated and normal serum IgG4.

Results: Seventy-one iRPF patients were included. Significant differences in morphological features were observed between iRPF and lymphoma (15 cases) but not retroperitoneal metastatic carcinoma (6 cases). Compared with malignancy, iRPF displayed a lower frequency of

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