AB135. SOH21AS033. Unusual presentation of a rare retroperitoneal solitary fibrous tumour, a case report with literature review

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Background: Solitary fibrous tumour (SFT) is a rare mesenchymal derived tumour. The retroperitoneum is unusual site with small number of cases reported in the literature. This has made studying the clinical course, management, follow-up and prognosis of these tumours challenging. In this case report, we describe a young patient with an unusual presentation of a rare retroperitoneal SFT.
Methods: A 21-year-old female presented to emergency department with right iliac fossa (RIF) pain and mass for 4 days. CT showed 10.3 cm × 6.2 cm × 9.4 cm right lower retroperitoneal hyper enhancing mass. Ultrasound guided core biopsy revealed features of SFT.
Results: Patient had a lower midline laparotomy with excision of the tumour. She had an uneventful recovery and was discharged home on the third post-operative day. Final histopathology showed a well circumscribed tumour, composed of spindled to round cells with mild atypia arranged in a 'pattern less' architecture. Striking hemangiopericytomatous vessels were present. Mitotic Count focally reached 4 per 10 HPF. Immunohistochemistry showed the lesional cells to be positive for STAT6 and CD34. A final histopathological diagnosis of SFT was made.
Conclusions: SFT is a rare tumour, hence many aspects related to its behaviour, clinical management and follow-up are still vague. Diagnosis can be made with CT and U/S guided core biopsy. Surgical resection is the definite management. Due to risk of recurrence, long term follow-up is highly recommended with the utilization of risk stratification tools.
Keywords: Retroperitoneum; sarcoma; solitary fibrous tumour (SFT)

Acknowledgments

Funding: None.

Footnote

Conflicts of Interest: The authors have no conflicts of interest to declare.

Ethical Statement: The authors are accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

doi: 10.21037/map-21-ab135
Cite this abstract as: Rashid M, Razzaq Z, Majeed M, Maxwel DC, Albagir M, Ahmed MB, Mustafa H, Aakif M, Daoud M, O'Connell F, Corrigan MA, Redmond HP. Unusual presentation of a rare retroperitoneal solitary fibrous tumour, a case report with literature review. Mesentery Peritoneum 2021;5:AB135.

