Anaplastic lymphoma kinase (ALK)-positive large B-cell lymphoma: a rare cause of ileal intussusception

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DESCRIPTION
A man in his 60s, with no medical history of note, presented with persistent vomiting and dehydration on a background of four stone weight loss in the preceding 3-month period. CT scan of the abdomen and pelvis revealed a small bowel obstruction secondary to intussusception (figure 1). He underwent emergency surgery which revealed an intraluminal ileal mass 100 cm from the ileocecal junction which was excised.

Histology of the mass showed an ulcerated, partially polyoidal tumour, the bulk of which appeared situated within the intestinal wall. The neoplasm comprised sheets of medium-to-large blasts, with moderate amounts of cytoplasm, and large rounded nuclei with granular chromatin and variably prominent nucleoli. Many showed plasmablastic differentiation (figure 2). There were frequent mitoses and apoptotic debris.

Immunohistochemical stains were positive for anaplastic lymphoma kinase (ALK) (figure 3), CD138, EMA, MUM1, CD45 (focal) and BCL2 (weak), with probable kappa light chain restriction. The cells were negative for CD20, CD79, CD30, immunoglobulin A, CD38, PAX5, CD56 and EBER. The MIB-1 proliferation index approached 100%.

The features were consistent with ALK-positive large B-cell lymphoma (ALK+LBCL) which is a very rare and aggressive neoplasm accounting for less than 1% of all diffuse LBCLs.1 ALK+LBCL usually responds poorly to conventional chemotherapeutic regimens, however new drugs, especially ALK inhibitors, show future promise.2
doxorubicin and prednisolone (CHOP) chemotherapy, without rituximab.\(^4\) Positron emission tomography scan after completion of six cycles of CHOP chemotherapy showed no residual disease activity, implying complete metabolic remission. At the time of writing, almost 10 months after his initial presentation, our patient has had no episodes of relapse and remains on regular follow-up with the haematology team.

**Learning points**

- Anaplastic lymphoma kinase-positive large B-cell lymphoma is a very rare and aggressive lymphoma with characteristic morphology and immunophenotype.
- These tumours are usually negative for CD20 antigen and are thus unlikely to be responsive to rituximab.

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**Contributors** EMO is the lead author of the paper. AT contributed clinical information about the case. LN is the consultant haematologist who managed the care of the patient. EMO and PM are consultant pathologists who reported the original histology and reached the correct diagnosis. Both LN and PM provided critical appraisal of the final article.

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Case reports provide a valuable learning resource for the scientific community and can indicate areas of interest for future research. They should not be used in isolation to guide treatment choices or public health policy.

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**REFERENCES**