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LETTER TO THE EDITOR

Histiocytic sarcoma simulating immune thrombocytopenic purpura

Joycelyn Sim · Yu-Yan Hwang · Rock Y. Y. Leung · Jason C. C. So · Yok-Lam Kwong

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Dear Editor,

A 64-year-old woman presented with isolated thrombocytopenia and was diagnosed to have immune thrombocytopenic purpura (ITP). There was a slow but relentless deterioration of her platelet count. Two years later, she was found to have splenomegaly and a platelet count of $23 \times 10^9/L$. Positron emission tomography/computed tomography showed multiple mildly hypermetabolic masses in the spleen and liver. Splenectomy and liver biopsy were performed. The spleen showed sinusoidal infiltration by large tumour cells with abundant foamy cytoplasm and active erythrophagocytosis. Tumour cells were positive for the histiocytic markers lysozyme, CD68 and CD163. Liver was also involved. Features were consistent with histiocytic sarcoma. Marrow examination showed the presence of large histiocytic cells with haemophagocytosis (Fig. 1a), which were CD68 positive (Fig. 1b). Haemophagocytosis appeared otherwise normal. Her platelet count recovered briefly after splenectomy, but soon deteriorated to $<10 \times 10^9/L$, which was associated with frequent and distressing bleeding. Several chemotherapeutic regimens comprising cyclophosphamide, doxorubicin, vincristine, etoposide, cytarabine, bleomycin, methotrexate, gemcitabine, cisplatin and prednisolone failed to alleviate the severe thrombocytopenia. Reassessment marrow examination showed the persistence of abnormal histiocytic cells, some reaching enormous sizes (Fig. 1c). She was finally started on the thrombopoietin mimic eltrombopag (50 mg/day). The platelet count responded within a fortnight, rising to about $40 \times 10^9/L$. Since then, she had remained asymptomatic with stable platelet counts while on eltrombopag.

This patient initially presented with what appeared to be ITP. However, the gradual deterioration and the finding of a splenomegaly prompted further investigations [1], which showed an infiltrative lesion in the spleen and liver. With the diagnosis of histiocytic sarcoma, marrow examination was performed, showing histiocytic infiltration. Therefore, the thrombocytopenia was attributed to marrow infiltration, although the extremely low platelet counts were incongruent with the preserved haemophagocytosis. Intensive chemotherapy did not improve the platelet count or decrease the histiocytes. We surmised that the thrombocytopenia might instead be due to haemophagocytosis, and therefore after all was similar to ITP in that excessive destruction of platelets was the pathogenetic mechanism. She was treated with eltrombopag as for ITP refractory to splenectomy [2], and achieved a satisfactory response. Although eltrombopag cannot be expected to impact on the histiocytic sarcoma, it has significantly improved the quality of life of the patient and relieved her of severe bleeding.

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thrombocytopenia and bleeding. Finally, although bone marrow examination may not be recommended for the majority of patients presenting with features characteristic of ITP [1], the judicious performance of this procedure may be necessary in patients with atypical features, particularly in the elderly.

Conflict of interest The authors declare that they have no conflict of interest.

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References