Glomus tumours are relatively rare neoplasms of the normal glomus body, occurring as painful subcutaneous nodules, frequently located in the subungual area of the digits of adults (1, 2). Such distinctive clinical features often allow diagnosis to be made. We report here a case of glomus tumour that presented as a painless nodule on the nostril of a female child.

CASE REPORT

A 5-year-old Japanese girl presented with a nodule on her left nostril. The nodule had developed 8 months previously and had been diagnosed as molluscum contagiosum by her local dermatologist. Although she underwent several sessions of cryotherapy, the nodule persisted.

The nodule was 3.5 mm in diameter, flat-topped, slightly red-coloured, with no symptoms such as pain, tenderness, or hypersensitivity to cold (Fig. 1). Although a whitish surface and telangiectasia was seen by dermatoscopy, it did not lead to a diagnosis. Clinically, the initial diagnoses were follicular tumours, such as trichoepithelioma or some other adnexal tumours.

The nodule was excised for diagnosis and treatment. Histopathological examination revealed an intra-dermal tumour without contiguity to the epidermis, with multiple nests of round-to-oval epithelioid cells and stromal myxoid change (Fig. 2). The epithelioid cells had pale eosinophilic cytoplasm and central nuclei without atypia, and partially showed perivascular distribution. Immunostaining revealed strong positivity for vimentin, weak positivity for muscle actin and alpha smooth muscle actin (Fig. 3), and negativity for desmin, S-100, and AE1/AE 3. Based on these findings, a diagnosis of solid glomus tumour was made.

There was no evidence of recurrence after 18 months.

DISCUSSION

Glomus tumours are relatively rare neoplasms of the normal glomus body, occurring as subcutaneous nodules, most frequently in the extremities, and especially in the subungual area of the digits. Classically, they often present with a triad of symptoms: pain, localized tenderness with blunt palpation, and hypersensitivity to cold (1, 2). These distinctive features often allow diagnosis of the tumour.

In the present case, however, the tumour occurred on the nostril of a child as a solitary nodule, and was not accompanied by any classical symptoms. In a study of 56 patients with single extra-digital glomus tumours (3), most tumours (91%) arose on the extremities, and only one (1.8%) was on the nose. As for the symptoms, 48 patients (86%) presented with pain and localized tenderness. In contrast, the number of patients who reported no symptoms was 6 (11%). Moreover, most glomus tumours are solitary (4) and diagnosed during
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adult life (3, 5, 6); reported cases occurring in childhood are generally presented in multiple forms that are congenital and hereditary (7–9). Therefore, our patient showed unusual clinical features.

Histopathologically, one of the differential diagnoses based on haematoxylin and eosin (H&E) staining was mixed tumour of the skin, because of the epithelioid features of the tumour cells and the stromal myxoid change. Finally, myoid differentiation, proven by immunostaining, led to the definitive diagnosis (10).

In conclusion, we reported here a case of extra-digital solitary glomus tumour with uncommon clinical features that deviated from the typical ones. Such a case poses a diagnostic challenge.

REFERENCES