Consultant 360 Multidisciplinary Medical Information Network

PHOTO QUIZ A Nodular Lesion on the Helix of a Boy's Ear

Volume 59 - Issue 5 - May 2019

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Citation:

Abbas A, Wilson B. A nodular lesion on the helix of a boy's ear. *Consultant.* 2019;59(5):135-136.

A 4-year-old boy presented with an asymptomatic, firm, yellow-tan nodule on the left posterior helix (**Figure**). The lesion had appeared shortly after birth and had continued to enlarge until approximately 2 months of age, after which its size had remained stable. He had no other medical problems and had normal development. He had no family history of similar lesions.



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What's Your Diagnosis?

- A. Benign cephalic histiocytosis
- B. Papular xanthoma
- C. Juvenile xanthogranuloma
- D. Langerhans cell histiocytosis

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Answer: Juvenile Xanthogranuloma

The boy was given a clinical diagnosis of juvenile xanthogranuloma (JXG).

JXG is the most common type of non–Langerhans cell histiocytosis. It most often develops in the first year of life and more rarely appears in early adulthood.1 JXG has a predilection for boys. It is characterized by yellow to red-brown, firm, rubbery nodules measuring approximately 0.5 to 2 cm, usually arising on the head and neck.¹ Most lesions are solitary, but cases of multiple nodules have also been reported.²

JXG is thought to be caused by an abnormal reactive proliferation of histiocytes in response to an unknown stimulus.¹ It is not associated with lipid or metabolic abnormalities as are other xanthomatous disorders. While the condition is most likely to be benign and asymptomatic, JXG has the potential to involve internal organs and cause serious complications.³ While rare, the most common site of extracutaneous involvement is the eye. The eyes should be evaluated in any patient with JXG, and when unilateral exophthalmos is present in an infant, intraocular JXG should be considered.¹

If the lesions are present with café au lait spots or a known history of neurofibromatosis type 1, there is an increased risk of an aggressive form of leukemia called juvenile monomyelocytic leukemia. Blood cell counts should be closely monitored in these patients.^{1,4} With the exception of cases with systemic involvement, excision is a definitive treatment⁵; however, lesions tend to regress on their own by age 6.¹

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