Chondroid syringoma

Agrawal A, Kumar A, Sinha A K, Kumar B, Sabira K C

ABSTRACT

Pleomorphic adenoma, or chondroid syringoma, (CS) is a rare, benign, skin appendageal tumour. Because of the unremarkable clinical presentation of this rare tumour, the diagnosis is made on microscopic examination. The usual presentation is of an asymptomatic, slowly-growing mass, typically located in the head and neck region. We present a case of a CS located over the forehead of a 32-year-old man. In the evaluation of a middleaged male patient with a small cutaneous nodule in the head and neck region, chondroid syringoma should also be considered in the differential diagnosis. For such a lesion, excisional biopsy, without destroying the aesthetic and functional structures, is the preferred diagnostic, as well as therapeutic approach.

Keywords: chondroid syringoma, pleomorphic adenoma, skin tumour

Singapore Med J 2008;49(2):e33-e34

INTRODUCTION

Pleomorphic adenoma, or chondroid syringoma (CS), is a rare, benign, skin appendageal tumour.⁽¹⁾ Because of the unremarkable clinical presentation of this rare tumour, the diagnosis is often made after microscopic examination.⁽²⁾ We report a case of CS on the forehead, and review the relevant literature.

CASE REPORT

A 32-year-old man presented with a progressively increasing swelling on the region of the forehead and superior-medial aspect of the left eye during the past two years. Physical examination showed a firm, painless, mobile, 5 mm × 5mm nodule, covered by normal skin. The nodule was excised and sent for histopathology. Gross examination showed a well-circumscribed, whitish firm tumour, surrounded with capsule-like tissue. Histological examination revealed abundant chondroid stroma with fibrous areas containing epithelial and myoepithelial cells, arranged as small aggregates and ducts. The epithelial cells were cuboidal with an eosinophilic cytoplasm and regular oval nuclei (Fig. 1). The mucoid stroma gave a positive reaction with Alcian blue. Based on histopathological findings, a diagnosis of CS was made. The patient was doing well and there was no recurrence at follow-up.

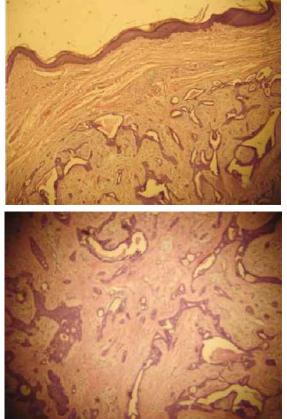


Fig. I Photomicrograph of the cord and duct structures in the chondromyxoid stroma shows a characteristic homogeneous basophilic chondroid stain (Haematoxylin and eosin, \times 40).

DISCUSSION

CS is rare among primary skin tumours; the reported incidence is < 0.098%.⁽²⁾ CS usually affects middle-aged or older male patients.^(2,3) The site of predilection for CS is the head and neck region; less commonly, these tumours can involve the hand, foot, axillary region, abdomen, penis, vulva, and scrotum.^(2,4-9) Typical clinical presentation of these tumours is a slow-growing, painless, firm, nonulcerated cutaneous or intracutaneous nodule (0.5-3 cm in size).⁽²⁻⁴⁾ Hirsch and Helwig used the term, chondroid syringoma, in place of pleomorphic adenoma of the skin, as the tumour is epithelial in nature, with associated secondary changes in the stroma.^(10,11) Histologically, CS contains an admixture of epithelial-myoepithelial structures within a chondromyxoid and fibrous stroma arranged in cords and forming tubules. (2,11) Differentiation towards various skin adnexal structures (including hair matrix, hair follicle, apocrine, and sebaceous Department of Surgery, Datta Meghe Institute of Medical Sciences, Sawangi (Meghe), Wardha 442005, Maharashtra, India

Agrawal A, MCh Associate Professor, Clinical and Administrative Head

Department of Surgery, BP Koirala Institute of Health Sciences, Dharan, Nepal

Kumar A, MS Professor

Department of Pathology

Sinha AK, MD Associate Professor and Head

Kumar B, MD Assistant Professor

Sabira KC, MBBS, Junior Resident

Correspondence to: Dr Amit Agrawal

Tel: (91) 7152 3956 552 Fax: (91) 7152 2245 318 Email: dramitagrawal@ gmail.com glands) is rare.^(12,13) CS may be confused clinically with various skin lesions, including benign tumours of epidermal or mesenchymatous appendages, such as dermoid or sebaceous cyst, and neurofibroma.⁽²⁾ Various treatment options have been proposed for CS, including electrodesiccation, dermabrasion, and vaporisation with argon or CO₂ laser.

Because of the risk of malignancy, the first-line treatment is total excision of the tumour without destroying the aesthetic and functional structures, as is in the present case.⁽²⁾ This should be followed by regular follow-up to look for local recurrence and any feature of malignancy.⁽¹⁴⁾ The recurrent lesion can be treated by surgical re-excision.⁽¹⁵⁾ Malignant CS is one of the rarest subtype, and appears to behave in an aggressive manner.^(16,17) Malignancy in CS is rare, with reported cases occurring in young female patients in the extremities and torso.^(16,18) Tumours greater than 3 cm in size have a greater likelihood of malignancy.^(16,19) Histological features that suggest malignant transformation in a CS include cytologic atypia, infiltrative margins, satellite tumour nodules, tumour necrosis, and involvement of deep structures.(11,20) For malignant lesions, the initial treatment modality is aggressive surgery. Adjuvant radiotherapy, with or without chemotherapy, may be recommended.^(16,17)

In conclusion, in the evaluation of a middle-aged male patient with a small cutaneous nodule in the head and neck region, CS should be considered in the differential diagnosis. For such a lesion, excisional biopsy without destroying aesthetic and functional structures is the preferred diagnostic, as well as therapeutic, approach.

REFERENCES

- Zimmerman LE, Sobin LK. Histological typing of tumour of eye and its adnexa. International Histological Classification of Tumour No. 24. Geneva: World Health Organisation, 1980.
- Yavuzer R, Basterzi Y, Sari A, Bir F, Sezer C. Chondroid syringoma: a diagnosis more frequent than expected. Dermatol Surg 2003;

29:179-81

- Villalón G, Monteagudo C, Martin JM, et al. [Chondroid syringoma: a clinical and histological review of eight cases.] Actas Dermosifiliogr 2006; 97:573-7. Spanish.
- Bekerecioglu M, Tercan M, Karakok M, Atik B. Benign chondroid syringoma: a confusing clinical diagnosis. Eur J Plast Surg 2002; 25:316-8.
- Hardisson D, Linares MD, Nistal M. Giant chondroid syringoma of the axilla. J Cutan Med Surg 1998; 3:115-7.
- Sliwa-Hähnle K, Obers V, Lakhoo M, Saadia R. Chondroid syringoma of the abdominal wall. A case report and review of the literature. S Afr J Surg 1996; 34:46-8.
- Kitazawa T, Hataya Y, Matsuo K. Chondroid syringoma of the orbit. Ann Plast Surg 1999; 42:100-2.
- Poku JW, Sant GR, Ucci AA. Chondroid syringoma of the scrotum. J Int Med Res 1996; 24:482-6.
- Nemoto K, Kato N, Arino H. Chondroid syringoma of the hand. Scand J Plast Reconstr Surg Hand Surg 2002; 36:379-81.
- Hirsch P, Helwig EB. Chondroid Syringoma. Mixed tumour of the skin, salivary gland type. Arch Dermatol 1961; 84:835-47.
- Bates AW, Baithun SI. Atypical mixed tumor of the skin: histologic, immunohistochemical, and ultrastructural features in three cases and a review of the criteria for malignancy. Am J Dermatopathol 1998; 20:35-40.
- Yamamoto O, Yasuda H. An immunohistochemical study of the apocrine type of cutaneous mixed tumors with special reference to their follicular and sebaceous differentiation. J Cutan Pathol 1999; 26:232-41.
- Requena L, Sánchez Yus E, Santa Cruz DJ. Apocrine type of cutaneous mixed tumour with follicular and sebaceous differentiation. Am J Dermatopathol 1992; 14:186-94.
- Mebazaa A, Trabelsi S, Denguezli M, et al. Chondroid syringoma of the arm: an unusual localization. Dermatol Online J 2006; 12:14.
- Sivamani R, Wadhera A, Craig E. Chondroid syringoma: case report and review of the literature. Dermatol Online J 2006; 12:8.
- Barnett MD, Wallack MK, Zuretti A, et al. Recurrent malignant chondroid syringoma of the foot: a case report and review of the literature. Am J Clin Oncol 2000; 23:227-32.
- Hong JJ, Elmore JF, Drachenberg CI, Jacobs MC, Salazar OM. Role of radiation therapy in the management of malignant chondroid syringoma. Dermatol Surg 1995; 21:781-5.
- Sungur N, Uysal A, Gümüs M, Koçer U. An unusal chondroid syringoma. Dermatol Surg 2003; 29:977-9.
- Watson JA, Walker MM, Smith NP, Hunt DM. Malignant chondroid syringoma--a rare cause of secondary bone tumour. Clin Exp Dermatol 1991; 16:306-7.
- Borman H, Özcan G. Chondroid syringoma at the fingertip: an unusual localization. Eur J Plast Surg 1998; 21:311-3.