Case Report

Nodular Hidradenoma on the Chest Wall - A Rare Case Report.
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ABSTRACT

Hidradenoma is a cutaneous, often benign tumour of the sweat glands. Also known by various other names such as nodular hidradenoma, eccrine acrospiroma, and solid cystic hidradenoma. Annual incidence rate of sweat gland tumors is about 5.1 cases per 1 million people. The case is being reported for its rare incidence, rare site and unusual clinicomorphological appearance.

Keywords: Hidradenoma, Eccrine, Acrospiroma.

INTRODUCTION

Nodular hidradenoma is a cutaneous neoplasm that may appear at various sites all over the body. It is commonly been referred as clear cell hidradenoma or sweat gland adenoma of eccrine origin.¹ These nodular hidradenomas arise from eccrine sweat glands as intradermal nodules. They are known to be an intermediate entity between eccrine poroma and eccrine spiradenoma.¹ These are most commonly found on the scalp, face, thorax, abdomen, and gluteal region. This tumor is found mainly in adults, peak incidence being the fifth to sixth decade and the tumor is excised more commonly in women than in men. Clinically, it presents as a slow-growing, red, blue or brown-colored solitary, 5–30 mm in size, freely mobile and firm nodule, with an occasional cystic appearance.³

Grossly the soft tissue piece was skin covered brownish white measuring 1x1cms. Microscopy showed well demarcated lobules contained tubules and cystic spaces with secretions. Overlying epidermis is normal. Histopathological diagnosis of benign adnexal tumor i.e nodular hidradenoma was made. Follow up period was unremarkable.

CASE REPORT

A 50 year old female patient presented to the surgery OPD with the complaint of swelling on the right side of the chest wall near the right breast since 3 years. It started increasing in size since few months. However, it was not associated with any pain or discharge. A clinical diagnosis of sebaceous cyst was made and the swelling was excised under local anesthesia and was sent to the department of pathology.

Figure 1 & 2: Photomicrographs (H& E 100X and 400X) showing well demarcated lobule within the dermis containing tubules and cystic spaces with secretions(arrow). Overlying epidermis is normal.
DISCUSSION

Hidradenomas are benign cutaneous tumors of sweat gland origin, with the clear cell type constituting the most frequent histologic variety. There is as yet no site predilection for hidradenoma although occurrence in vulva has been reported. Involvement of scalp, face, anterior trunk and proximal limbs is also commonly seen. The average size of hidradenoma is about 1 to 3 cm in diameter, although cases have been reported up to 6 cm in size. Enzyme histochemical staining has established the presence of high concentrations of eccrine enzymes, particularly phosphorylase and respiratory enzymes including succinic dehydrogenase and diphosphopyridine nucleotide diaphorase. Variants of nodular hidradenoma may show several types of cells. As the percentage of different cell types varies markedly in different tumors, the resemblance of nodular hidradenoma to metastatic renal cell carcinoma, squamous cell carcinoma should be kept as a closest differential diagnosis. The high rate of local recurrence (10%) and potential for malignant transformation make surgical removal with wide margins as the widely accepted modality of treatment.

CONCLUSION

The appearance of two types of cells, eosinophilic and clear cells in a papillary pattern along with ducts-like tubular structures within the lobules intradermally along with cystic spaces are the key features of nodular hidradenoma. Local resection remains the mainstay of its treatment.

REFERENCES