ABSTRACT

Introduction
Cornu cutaneum is a nodule of dense keratin, resembling the horn of animals, an uncommon clinical condition predominantly seen in elderly men, and even rare to be seen on the pinna.

Case Report
A 70 year old man, presented with a horn like swelling on the left pinna for 2 years. The lesion was excised and histopathological examination did not show any underlying or associated conditions.

Discussion
The cause of worry here is not the disfigurement, but the probability of underlying premalignant or malignant condition. Exposure to sunlight is considered as the etiology. Ours being a tropical country where exposure to sunlight could not be avoided, a high clinical vigil and early intervention is recommended to reduce the mortality and morbidity from the spectrum of diseases resembling this condition.

Keywords
Cornus; Cornu cutaneum; Ear Auricle

Cornu cutaneum used interchangeably with sebaceous horn or cutaneous horn is a projectile, conical, nodule of dense keratin, resembling the horn of animals. This is an uncommon clinical condition predominantly seen over the sun exposed areas of face and scalp among men in 6th or 7th decade of life. Although it appears as benign lesion, a prompt diagnosis by excision and histopathological examination is advocated to rule out underlying premalignant or malignant conditions.

Case Report
A 70 year old male presented to the ENT opd with complaints of a horn like swelling on the left ear for 2 years, started as a small painless nodule over the pinna, became conical and progressively enlarged to the present size. There was no history of trauma, bleeding, itching, discharge, ulceration, discoloration, satellite lesions or sudden increase in the size of lesion.

On examination a horn shaped swelling of size 2x1x0.5 cm, dark brown in colour, was seen arising from the rim of helix left pinna at the junction of upper and lower halves. No ulcerations, scars, discharge, satellite lesions or nodules were seen around the swelling. (Fig. 1) Swelling was non-tender, not warm, hard in consistency, non compressible, non-pulsatile and fixed to the skin of pinna but free from the underlying cartilage.

The lesion was excised under local anesthesia with a rim of normal skin at the base. The defect was closed primarily with 2.0 monofilament nylon. Patient was discharged with a course of oral antibiotics on the same day and followed up every 6 weeks for 8 months and every 6 months thereafter. The follow up was uneventful with no local recurrence.

On histopathological examination, the sections showed skin with marked hyperkeratosis, the epidermis was hyperplastic with papillomatosis. Dermoepidermal junction showed dense infiltration of mixed inflammatory infiltrates composing of lymphocytes and eosinophils. (Fig. 2, 3)
Discussion

Cornu cutaneum is a descriptive clinical and histological term for horn like hyperkeratotic lesion, used interchangeably with sebaceous horn or cutaneous horn. Cornu cutaneum is characterized by projectile, conical, nodule, composed of dense keratin, resembling the horn of animals.\(^1\) Histological differentiation is made by the presence of superficial hyperkeratotic epidermis, dermis, and centrally positioned bone in animal horns.\(^4\)

Elderly men in 6th or 7th decade are commonly affected over the sun exposed areas.\(^2\) Mrs. Margaret Gryffith, an elderly welsh woman was the first ever documented case of cornu cutaneum from London in 1588. However a London based surgeon, Everard Home in 1791 was the earliest to describe the observations on cutaneous horn.\(^5\) A well documented case report with adequate histology was first described by Farris from Italy.\(^6\)

The cause of worry in this condition is not the horn but the spectrum of associated conditions including - actinic keratosis, viral warts, pyogenic granuloma, keratoacanthoma, seborrheic keratosis, verruca vulgaris, discoid lupus erythematosus, basal cell carcinoma, and squamous cell carcinoma.\(^7,8\) In the study by Yu et al comprising 643 subjects, 39% of cutaneous horns had associated premalignant or malignant lesion and 61% had benign lesions.\(^3\) Such observation were made in two other studies, wherein 23-37% cases had actinic keratosis or Bowen’s disease (premalignant) and 16-20% cases had an underlying malignant etiology.\(^5,9\) However in our patient no associated lesions were documented.

Exposure to sunlight is considered as the etiology for cutaneous horns as is the case with other skin lesions.\(^10\) Surgical excision with a rim of surrounding normal tissue is the treatment of choice. The wound is closed...
primarily or using a flap depending on the size of defect.\(^3\)

Ours being a tropical country where exposure to sunlight could not be avoided, and the high incidence of cutaneous horns (potentially malignant) in elderly patients who already have risk of other malignancies, we recommend high clinical vigil and early intervention to reduce the mortality and morbidity associated with the spectrum of diseases resembling this condition.

References