Axillary Basal Cell Carcinoma: Case Report and Literature Review

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SUMMARY Axillary basal cell carcinoma (BCC) has been rarely reported. The axilla is a site that is less likely to be monitored by the patient, thus there is a potential for delay in diagnosis and treatment. Surgical excision is the most widely used treatment method for its effectiveness, simplicity and histologic control. BCC is easily treated when it is detected early. There are 33 cases of axillary BCCs reported in the literature, and only one case has been reported in Asia. Herein we report on the second case of primary axillary BCC in an Asian female.

KEY WORDS: basal cell carcinoma, axilla, sun-protected, Asian

INTRODUCTION
Basal cell carcinoma (BCC) is the most common skin cancer and mostly occurs on sun-exposed skin, with nearly 85% of tumors occurring in the head and neck regions (1). BCCs arising at the sun-protected sites are very rare, and the axilla is one of the rarest sites at which primary BCCs develop. We presented an unusual case of primary BCC arising in the right axilla.

CASE REPORT
A 60-year-old female presented to our hospital with a pigmented lesion over the right axilla region for half a year and ulcerative change observed for a week. On admission, she was afebrile with normal pulse rate and blood pressure. There were no changes in her appetite and body weight. There were no contributory findings in her medical and family histories. Physical examination demonstrated a well-defined brown plaque measuring 2.5 cm x 1.5 cm in size with central ulcerative change (Fig. 1). Blood tests showed normal leukocytes and tumor marker testing revealed normal squamous cell carcinoma antigen (SCCAg). Plain film of the chest showed no remarkable findings. Biopsy was done and histopathology revealed lobular proliferations of basaloid cells with extension to the dermis layer, consistent with BCC (Fig. 2). Therefore, the patient underwent surgical excision of the lesion. Postoperative course was uneventful. The patient remained free from any further event at 36-month follow-up.

DISCUSSION
Basal cell carcinoma is the most common skin malignant neoplasm, accounting for approximately 75% of all skin cancers (2). While BCCs occur most...
frequently on sun-exposed areas of the body, the single most important risk factor for BCC is ultraviolet (UV) radiation (3). However, 10% to 15% of BCCs arise at sun-protected sites (4). Moreover, the axilla is one of the best sun-protected sites of the body (5,6).

In 1917, Hazen reported the first case of primary BCC arising in the axilla (7). To the best of our knowledge, approximately 33 cases of axillary BCC have been reported in the literature, and only one case has been reported in Asia (5-18). No clear explanation exists for the occurrence of BCC in sun-protected sites. Factors contributing to the development of BCC at sun-protected sites include light skin color, exposure to ionizing radiation or arsenic, immunosuppression, prior injury such as trauma and burns, nevus sebaceous, or genodermatoses (8,11,14).

Several theories explaining why BCC occurs at sun-protected sites have been proposed. Strickland et al. have proposed that depressed immune surveillance caused by UV radiation at distant sites may also be involved in the tumorigenesis of BCCs at sun-protected sites (19). Heckmann et al. report that the disturbed cell matrix interactions may be a cofactor for developing BCCs (20).

Generally, BCC rarely metastasizes and is easily treated by surgical excision if detected early (21). Wolf et al. propose that larger tumors and more aggressive histologic types are best treated by surgical excision with a 2- to 4-mm safe margin (22). The recurrence of BCC is associated with the fact whether complete excision has been achieved. When BCCs are completely excised, only 1% will recur, as compared with 33%-39% if they are incompletely excised (23-25).

**CONCLUSION**

We report an unusual case of primary BCC arising in the right axilla of an Asian female. Despite the well-known risk factors and associations with BCC, it is important to realize that rare cases do occur in Asians with yellowish skin color. A neglect of the lesion can contribute to increased tumor size and following incomplete excision rate.

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**References**


Cream Simon - one and only cream for beauty; year 1929. (From the collection of Mr. Zlatko Puntijar)