ABSTRACT
Malignant tumour development within a seborrheic keratosis (SK) is extremely rare. Though the most commonly developed malignant tumour is the basal cell carcinoma (BCC), other tumour types have also been reported in literature. Herein, we will report a superficial type BCC case developed within SK localized in hairy skin of a 78-year-old female patient. In immunohistochemical evaluation, diffuse positive staining with CK19 and over-expression in p53 compared with non-neoplastic areas were determined in neoplastic basaloid islands. It is always not easy to differentiate especially superficial type BCC cases from non-neoplastic epithelium of SK with histopathological evaluation. As far as this reason we believe that in difficult differentiation of these 2 lesions, in order to show the differentiation in basal epithelium, immunohistochemical evaluation may be helpful.

CASE REPORT
A 78-year-old female patient was admitted with flat, brown, warty lesion on hairy skin of her occipital region. This lesion was present for 10-years but slowly enlarging in last months. In physical examination a brown plaque with a 20 x 15 mm diameter, slightly elevated from skin was observed. The clinical differential diagnosis considered an irritated SK a pigmented BCC or a malignant melanoma. The lesion was totally excised by the plastic surgeon. In microscopic evaluation, there was marked hyperkeratosis and proliferation in basaloid cells in lower layers of epidermis showing acanthosis and containing pseudohorn cysts [Table/Fig-1]. In many foci, proliferation of peripherally palisading basaloid cells through papillary dermis was observed [Table/Fig-2]. In immunohistochemical evaluation, a strong positive staining with CK19 was determined in basaloid cells area [Table/Fig-3]. The p53 staining was established in basaloid islands more than non-neoplastic epithelium [Table/Fig-4]. With its morphological and immunohistochemical features; the lesion was reported as superficial type BCC arising within SK. There was no tumour identified in surgical borders. In two months follow up of the patient, recurrence was not observed.

DISCUSSION
Seborrheic keratosis (SK) is one of the most common benign skin tumours. On the other hand, basal cell carcinoma (BCC) is the most common malignancy of the skin. Determination of a malignant tumour within SK is an extremely rare condition [1]. Seborrheic keratosis, one of the most common epidermal tumours, is frequently encountered in clinical practice. It is most commonly localized in head and neck region followed by body, upper and lower extremities [1,2]. Although malignant transformation is rare, malignant melanoma, eccrin porocarcinoma, and microinvasive squamous cell carcinoma cases within SK were also reported in the literature [3-5]. In a large, retrospective study of Lim et al. [2] on 639 cases, another lesion accompanying seborrheic keratosis was determined in 85 of the cases. These concomitant lesions included premalignant lesions, malignancies, melanocytic lesions and miscellaneous lesions. Miscellaneous lesions consisted of haemangiomas, fibroepithelial polyps, chondrodermatitis nodularis helices and keratoacanthoma. In that study, there were four cases reported with malignant transformation within SK; two of which were BCC, one was invasive squamous cell carcinoma and one was superficially spreading malignant melanoma. Seborrheic keratosis are composed of several
immunohistochemical features of SK and BCC are different. Ishida et al., [1] used CK17, CK19, SOX9 and p53 in differentiation of neoplastic and non-neoplastic basaloid cells in an immunohistochemical evaluation of a case. In this evaluation; it has been determined that CK17, CK19 and SOX9 were expressed in BCC but not in SK. Then again p53 was established to be over-expressed in BCC but not determined in SK. In the light of all these data, they have suggested that, BCC does not directly originate from SK but arises within that nest. Similarly, in our case report there was CK19 expression in BCC but any staining was not determined in non-neoplastic SK areas. There was also p53 over-expression observed in BCC.

CONCLUSION

Sometimes it may be difficult to differentiate non-neoplastic basaloid cell proliferations from especially small foci of superficial type basal cell carcinoma. In those cases, we believe that using CK19 and p53 may be helpful in confirmation of superficial BCC diagnosis.

CONFLICTS OF INTEREST

No potential conflict of interest relevant to this article was reported.

REFERENCES


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