Giant Seborrheic Keratosis on the Right Flank Part: A Case Report

Nazaninzahra Sepehri 1, Sepideh Babaniamansour 2, Sepideh Karkon-Shayan 3,4, Mohammadreza Majidi 3,4, Ahmadreza Atarodi 3, Hamideh Mohammadzadeh 5, and Maryam Talaiee 6

1School of Medicine, Shiraz University of Medical Sciences, Shiraz, Iran
2Department of Pathology, School of Medicine, Islamic Azad University Tehran Faculty of Medicine, Tehran, Iran
3Faculty of Medicine, Gonabad University of Medical Sciences, Razavi Khorasan, Iran
4Social Development and Health Promotion Research Center, Gonabad University of Medical Sciences, Razavi Khorasan, Iran
5Departments of Dermatology, Gonabad University of Medical Sciences, Razavi Khorasan, Iran
6Departments of Pathology, Gonabad University of Medical Sciences, Razavi Khorasan, Iran

*Corresponding author: Departments of Dermatology, Gonabad University of Medical Sciences, Razavi Khorasan, Iran. Email: hamidehmohammadzadeh06@gmail.com

Received 2020 November 14; Revised 2021 March 16; Accepted 2021 March 29.

Abstract

Introduction: Seborrheic keratosis (SK) is one of the most common non-cancerous lesions that appears on the sun-exposure areas of the body and highly prevalent among the middle-aged population. It is the result of the hyperproliferation of keratinocytes. The clinical changes in SK lesions such as sudden growth, color changes, and ulcerations are accompanied by malignancies.

Case Presentation: This study presents a rare case of giant SK on the flank part with rapid enlargement. The manifestations were in favor of malignancy and the patient underwent biopsy and total excision with a good outcome.

Conclusions: Giant SK is a rare type of SK that has various similarities with malignant masses and requires further investigation.

Keywords: Seborrheic Keratosis, Neoplasms, Skin Diseases

1. Introduction

Seborrheic keratosis (SK) is one of the most common non-cancerous lesions affecting millions of people worldwide. It mostly appears on the sun-exposure areas of the skin, especially the face, trunk, chest, and back. Seborrheic keratosis is the result of hyperproliferation of immature keratinocytes due to various factors like sun exposure (1, 2). Seborrheic keratosis has nine subtypes including acanthotic, reticulate, hyperkeratotic, adamantinoid, desmoplastic, pseudorosettes, clonal, irritated, and inverted follicular keratosis (3). It mostly appears with distinct clinical features but few studies reported malignant changes in SK such as sudden growth, color changes, ulcerations, scarring caused or accompanied by basal cell carcinoma (BCC), squamous cell carcinoma (SCC), keratoacanthoma, Bowen’s disease, malignant melanoma, and hamartomas (4-6).

Recently, the number of SK cases with malignant changes has increased by increasing the elderly population. Darkly pigmented lesions like SK and malignant masses may overlap based on clinical manifestations. In this respect, thin SK on the face is a differential diagnosis of malignant lentigo (7). Otherwise, SK has a similar appearance with epidermal moles, condylomata, and warts (2, 8, 9). Overall, SK may have morphological similarities with other lesions and may develop into cancerous ones. Therefore, performing histopathological investigations and subsequently appropriate treatments are necessary especially for those with high suspicion of malignancy (10, 11). This study reported an 86-year-old man with giant SK on the right flank and significant clinical changes.

2. Case Presentation

The patient was an 86-year-old man, a retired farmer, reported to the dermatologic clinic with a chief complaint of a single lesion on his right flank part, causing discomfort for him recently. The lesion was black-tan, secreting, smelly, and enlarged two-fold during the last three months. He was painless, non-pruritic, and non-hemorrhagic.

The lesion started as a small purple papule on the right flank part in the early 50s, without any secretion or smell at first. He had no history of smoking, alcohol consumption, skin burn, or allergy. There was no significant past medical and drug history. The patient did not undergo any procedure or local or systemic treatment for the aforementioned lesion before reporting to the clinic. No family history of skin disease or malignancies was reported by the patient.
There was no evidence of significant weight loss. No fever was detected.

In the physical examination, there was a giant soft plaque of $91 \times 65$ mm, sharp margin, stuck to the skin, exhibiting a pigmented papillomatosis and verrucous surface. No evidence of cellulitis in the lesion area or further remarkable signs were examined (Figure 1). An incisional biopsy was performed with differential diagnosis of giant condyloma acuminate (Buschke-Lowenstein tumor), verrucous carcinoma, congenital nevus, and giant SK. Also, BCC or SCC arising with SK was a matter of debate. The biopsy revealed an epidermal hyperkeratosis, extensive acanthosis, and papillomatosis of the epidermis, upward growth of basaloid cells with small horn cyst formation and squamous eddies, moderate lymphocytic infiltrate in the dermis, showing irritated SK. There was no evidence of concomitant malignancy (Figure 2).

![Figure 1. A black tan, 91 x 65 mm plaque on the right flank part.](image)

The patient underwent antibiotic therapy, cephalexin 500 mg per os every 12 hours, for one week for treating the infection. Then, the lesion was totally excised with a 2-mm normal resection margin and the defect was primarily closed, by covering with a partial thickness skin graft. The excision area was evaluated two weeks later and no primary complication like infection was observed.

3. Discussion

Seborrheic keratosis is an important and common benign skin lesion with slow growth. It has different morphological similarities and could be misdiagnosed or accompanied by several malignancies that call for great attention. Therefore, considering the size, number, thickness, location, and progression trend of SK could be helpful for further decisions (2, 3, 10-12).

Seborrheic keratosis typically did not require any treatment but uncertain diagnosis or atypical presentation of SK that carries a higher risk of malignancy, consistent irritated ones, and those causing discomfort for patients warrant histopathological investigations and treatment (10, 11). There are various treatment modalities available for SK such as topical treatment, laser therapy, cryotherapy, and shave or total excision, and physicians choose an appropriate treatment for each patient individually (2, 13).

Giant SK, an atypical SK, is rarely reported on the genitalia, perianal, or face in previous studies (14-17). However, at the time of this study, no case of giant SK was reported on the flank part. This study presented a rare case of irritated giant SK located on a non-sun-exposed body area, with rapid enlargement. The clinical manifestations were in favor of malignancy but there was no evidence of contaminant malignancy in the biopsy report. After excision, the patient underwent physical examinations every month. After one year, he had good outcomes with no recurrence or complication.

In this regard, the American Academy of Dermatology Association announced that SK lesions have a good prognosis (no return after removal) and a low recurrence rate, but still may occur elsewhere (18). Therefore, close follow-ups are necessary. In this regard, Sayan et al. showed that the recurrence rate of SK lesions was only six out of 547 cases (19).

Footnotes

Authors’ Contribution: All authors contributed to the study concept and design. Material preparation, data collection, and acquisition were performed by Nazaninzahra Sepehri, Mohammadreza Majidi, Ahmadreza Atarodi, Hamideh Mohammadzadeh, and Maryam Talaiee. The first draft of the manuscript was written by Sepideh Babaniansour and Sepideh Karkon-Shayan, and all authors commented on the previous versions of the manuscript. All authors read and approved the final manuscript.

Conflict of Interests: The authors declare no conflict of interest.

Ethical Approval: All procedures of the studies were in accordance with the ethical standards of the Institutional Committee of Gonabad University of Medical Sciences, Iran. Regarding the policies of the University, institutional approval was not required to publish case report and case series involving less than three patients.

Funding/Support: No financial support was received.
Sepehri N et al.

Figure 2. Histopathology of the specimen showing epidermal hyperkeratosis and extensive acanthosis and papillomatosis (H & E staining; Original magnification × 40).

Informed Consent: Informed consent was obtained from the participant before the study for publication of this case report and accompanying images.

References

1. Kaur R, Atreja CB, Singh S, Gupta S. Giant genital seborrheic keratosis: A case report and review of the literature. Indian J Case Reports. 2020;6(5):232-4. doi: 10.32677/IJCR.2020.v06.i05.005.

2. Greco MJ, Bhutta BS. Seborrheic Keratosis. Treasure Island (FL): StatPearls; 2021.

3. Coyne JD. Classification of the seborrheic keratosis. Int J Surg Pathol. 2016;24(1):51-7. doi: 10.1177/1066896915604459. [PubMed: 26353851].

4. Jenkins C, Watson D, Mendis S, Hill G, De Soysa L. Seborrheic keratosis (Leser-Trelat sign) in multiple myeloma signalling disease progression. eJHaem. 2020;1(2):245. doi: 10.1002/jha2.88.

5. Karadag AS, Parish LC. The status of the seborrheic keratosis. Clin Dermatol. 2018;36(2):275-7. doi: 10.1016/j.clindermatol.2017.09.011. [PubMed: 29566932].

6. Wollina U. Recent advances in managing and understanding seborrheic keratosis. F1000Res. 2019;8. doi: 10.12688/f1000research.18983.1. [PubMed: 31508199]. [PubMed Central: PMC6719672].

7. Tran PT, Truong AK, Munday W, Alexanian S, Levins P. Verrucous melanoma masquerading as a seborrheic keratosis. Dermatol Online J. 2019;25(2). [PubMed: 30865444].

8. Carrera C. The many faces of seborrheic keratosis. Actas Dermosifiliogr. 2019;110(5):338-42. doi: 10.1016/j.ad.2018.12.005. [PubMed: 30846633].

9. Jackson JM, Alexis A, Berman B, Berson DS, Taylor S, Weiss JS. Current understanding of seborrheic keratosis: Prevalence, etiology, clinical presentation, diagnosis, and management. J Drugs Dermatol. 2015;14(10):1189-25. [PubMed: 26468821].

10. Laimer M, Kraus I, Zelger B. Verrucous seborrheic keratosis with keratoacanthoma-like features, a pitfall in differential diagnosis. J Dermatol Surg Oncol. 2015;41(9):901-3. doi: 10.1111/ddg.12618. [PubMed: 26882841].

11. Wollina U. Seborrheic keratoses - the most common benign skin tumor of humans. Clinical presentation and an update on pathogenesis and treatment options. Open Access Maced J Med Sci. 2018;6(1):2270-5. doi: 10.3889/oamjms.2018.460. [PubMed: 30559899]. [PubMed Central: PMC6290447].

12. Mansur AT, Yildiz S. A diagnostic challenge: Inflamed and pigmented seborrheic keratosis. Clinical, dermoscopic, and histopathological correlation. Dermatol Online J. 2009;15(3). [PubMed: 20962311].

13. Babaniamsour P, Mohammadi M, Babaniamsour S, Alniager-droudbari E. The relation between atherosclerosis plaque composition and plaque rupture. J Med Signal Sens. 2020;10(4):267-73. doi: 10.4103/jmss.JMSS_48_19. [PubMed: 33575199]. [PubMed Central: PMC7866947].

14. Salah B, Mahsereei M, Al-Ali Z, Gaith A, Aldwan T, Al-Rawashdeh B. Giant perianal Seborrheic keratosis: A case report. Int J Surg Case Rep. 2018;51:296-301. doi: 10.1016/j.ijscr.2018.09.001. [PubMed: 30243263]. [PubMed Central: PMC6148732].

15. Livaoglu M, Karacal N, Guer H, Arvas I. Giant genital seborrheic keratosis. Dermatol Surg. 2007;33(11):1357-8. doi: 10.1111/j.1524-4725.2007.33289.x. [PubMed: 17958589].

16. Nath AK, Kumari R, Rajesh G, Thappa DM, Basu D. Giant seborrheic keratosis of the genitalia. Indian J Dermatol. 2012;57(4):310-2. doi: 10.4103/0019-5154.97681. [PubMed: 22837573].

17. Khai Luen K, Shawaltul Akhma R, Wan Azman WS. Giant seborrheic keratosis of the face – An unusual presentation. J Dermatol. 2012;39(7):515-8. doi: 10.1111/j.1346-8138.2012.01605.x. [PubMed: 22837573].

18. American Academy of Dermatology Association. Seborrheic keratoses: Diagnosis and treatment. Illinois, USA: American Academy of Dermatology Association; 2021. [cited 2020]. Available from: https://www.aad.org/public/diseases/a-z/seborrheic-keratoses-treatment.

19. Sayan A, Ilankovan V. RETRACTED: Management of seborrhoeic keratosis and actinic keratosis with an erbium: YAG laser-experience with 547 patients. Int J Oral Maxillofac Surg. 2019;48(7):902-7. doi: 10.1016/j.ijom.2018.08.008. [PubMed: 3093758].