



Case Series

Verrucous lesion mimics- A case series

Sannidhi Sara S¹, Vathsala S¹, Megha M Shrikantaiah², Madhu Sudhana M^{1*}, Somashekar YB¹

¹Dept. of Dermatology, Shridevi Institute of Medical Sciences, Tumkur, Karnataka, India

²Dept. of Dermatotomy, Shree Siddhartha Medical College, Tumkur, Karnataka, India



ARTICLE INFO

Article history:

Received 05-12-2023

Accepted 26-12-2023

Available online 05-01-2023

Keywords:

Verrucous

Chondroid syringoma

Squamous cell carcinoma

Syringocystadenoma papilliferum

ABSTRACT

Introduction: Cutaneous lesions with wart like growth pattern are referred as verrucous lesions. Few lesions clinically look like warts but they are associated with different conditions, pathology, prognosis and treatment. Histopathology plays a very important role in such cases to diagnose the condition. In this article we present 5 different cases, with verrucous morphology.

Case History: Our first case was a 70 year old man, with verrucous growth over hyperpigmented plaque on left leg. Biopsy showed Squamous cell Carcinoma overlying Lichen Simplex Chronicus. Second case was a 65yr old man with verrucous growth over right thigh diagnosed as well differentiated Squamous cell carcinoma on histopathology. Third case was a 22year old man, with multiple erythematous verrucous growth over left thigh. Biopsy showed syringocystadenoma papilliferum. Fourth case was a 9 year old female, with verrucous lesion over left side of forehead. Biopsy suggested chondroid syringoma. Fifth case was a 25year old female with multiple verrucous lesions over nose, diagnosed as sebaceous hyperplasia.

Conclusion: Difficulty in diagnosing verrucous lesions can be resolved with knowledge and awareness of different diseases with verrucous morphology and histopathological examination.

This is an Open Access (OA) journal, and articles are distributed under the terms of the [Creative Commons Attribution-NonCommercial-ShareAlike 4.0 License](https://creativecommons.org/licenses/by-nc-sa/4.0/), which allows others to remix, tweak, and build upon the work non-commercially, as long as appropriate credit is given and the new creations are licensed under the identical terms.

For reprints contact: reprint@ipinnovative.com

1. Introduction

Verrucous lesions are defined as “pertaining to or marked by wart like growth pattern”. However, not all verrucous lesions are associated with Human Papilloma Virus. Few lesions look similar to warts clinically but with different conditions, pathology, prognosis and treatment. Verrucous lesions may be caused by inflammatory, neoplastic, autoimmune, apocrine and eccrine gland disorders. Histopathology plays a very important role in such cases to diagnose the condition.¹

2. Case 1

A 70- year- old man presented with itchy hyperpigmented plaque over left knee since 10 yrs years with verrucous growth over lesion for 2 years, Figure 1(a). Biopsy from verrucous lesion showed marked proliferation of the stratified squamous epithelium with a focus of micro invasive islands of the tumour into the subepithelium, Figure 1(b).

It was diagnosed as Squamous cell Carcinoma overlying Lichen simplex chronicus. The lesion was treated with wide local excision.

3. Case 2

A 65 year -old male patient presented with hyperpigmented verrucous plaque over lateral aspect of right thigh for 2

* Corresponding author.

E-mail address: <https://orcid.org/0000-0002-9385-3146>

(Madhu Sudhana M).

years, Figure 2(a).

Histopathology showed keratinocytes with marked proliferation of malignant cells arising from epidermis, with separate islands of malignant cells showing pleomorphism and atypia, diagnosed as well differentiated squamous cell carcinoma, Figure 2(b). The lesion was surgically excised.

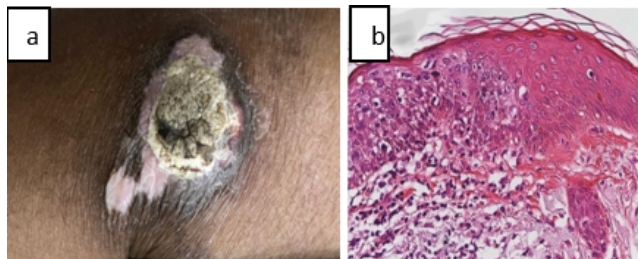


Figure 1: a: Verrucous lesion over hyperpigmented plaque on left knee; b: Marked proliferation of the stratified squamous epithelium with a foci of micro invasive islands of the tumour into the subepithelium, H and E x 100]

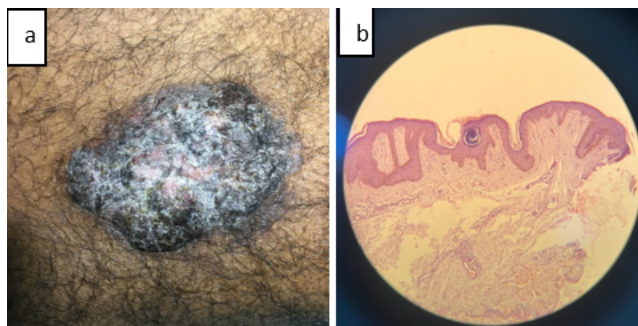


Figure 2: a: Hyperpigmented verrucous plaque over lateral aspect of right thigh; b: Keratinocytes with marked proliferation of malignant cells arising from epidermis, with separate islands of malignant cells showing pleomorphism and atypia, H and E x 100]

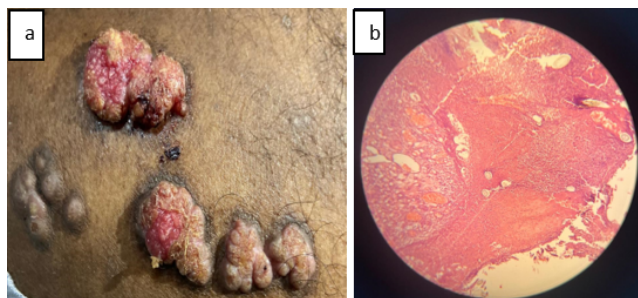


Figure 3: a: Multiple erythematous verrucous nodules over thigh; b: Papillary projection arising from epidermis, showing double layered epithelium with decapitations of secretion, H and E x 100]

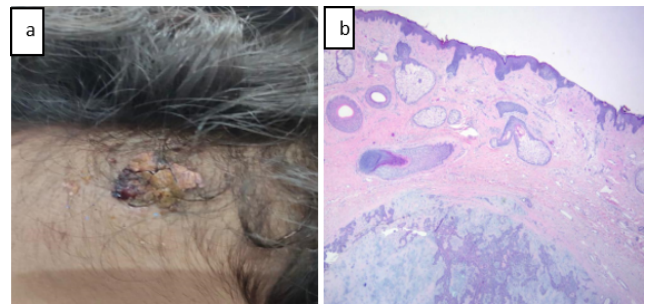


Figure 4: a: Verrucous plaque over forehead, b: Stratified squamous epithelium with subepithelial eccrine and apocrine glands, with chondromyxonal areas, H and E x 100]

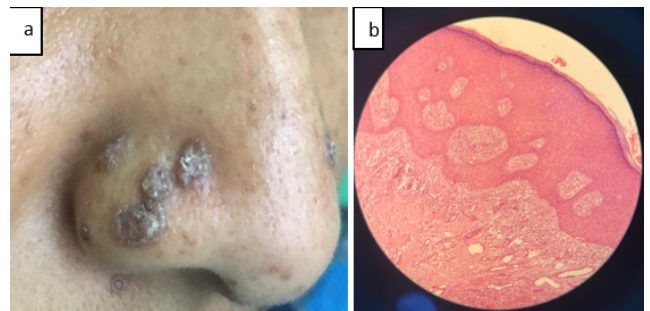


Figure 5: a: Multiple verrucous papules over the nose, b: Hyperplasia of sebaceous glands H and E x 100]

4. Case 3

A 22-year-old man, presented with multiple erythematous nodules over left thigh, which initially started as papules during childhood, with increase in size and verrucous surface over the lesions associated with erosions and mild serous discharge since 3 years, Figure 3(a).

Histopathology showed papillary projection arising from epidermis. These projections are showing double layered epithelium with decapitations of secretion, consistent with Syringocystadenoma papilliferum, Figure 3(b). The lesions were excised.

5. Case 4

A 9-year-old girl presented with solitary skin coloured plaque measuring 1*1 cm with verrucous surface, over left side of forehead since 1 year, Figure 4(a). Biopsy showed stratified squamous epithelium with subepithelial eccrine and apocrine glands, with chondromyxonal areas, suggestive of Chondroid syringoma. Figure 4(b), and the lesion was excised.

6. Case 5

A 25-year-old lady presented with multiple verrucous papules over the nose, associated with mild itching on exposure to sunlight since 2 years, Figure 5(a).

Histopathology showed hyperplasia of sebaceous glands, Figure 5(b). It was initially treated with oral isotretinoin 20mg for 1 month with topical tretinoin 0.05 % with no improvement. Then the lesions were removed by radiofrequency ablation.

7. Discussion

Cutaneous warts, also known as verruca vulgaris are caused by infection of keratinocytes with Human papilloma virus, visible as well defined hyperkeratotic protrusions. There are many conditions which may present with verrucous surface and thus can create confusion while diagnosing clinically.¹

7.1. Squamous cell carcinoma (SCC)

Malignant cutaneous neoplasms contribute only around 1–2% of all malignancies in blacks and Indians, compared to 20–30% in Caucasians. Cutaneous SCC is the most common skin malignancy in dark skin and tends to arise in non-healing ulcers, chronic scars, inflammatory, infectious, and genodermatoses in 20–40% of cases.²

A study done in north India found Chronic inflammatory dermatoses and genodermatoses as a predisposing factor in 12.2% cases of cutaneous SCC.³

In our first case, squamous cell carcinoma was developed on longstanding Lichen Simplex Chronicus.

7.2. Syringocystadenoma papilliferum (SCAP)

Syringocystadenoma papilliferum is a benign adnexal tumor which commonly occurs during childhood or adolescence. The lesions usually present on scalp and forehead as papules or smooth plaques with nodular or verrucous transformation seen at puberty.⁴

Rare clinical patterns include linear and segmental variants.⁵

Our 3rd case is a very rare case of SCAP, where it was present on unusual site (thigh), with a linear distribution.

7.3. Chondroid syringoma

Chondroid syringoma, also known as a cutaneous mixed tumor is one of the rare skin appendageal neoplasm with the presence of sweat gland elements set in a cartilaginous stroma.⁶

The benign type has a predilection for the head and neck region of the middle-aged men whereas, the malignant type is more commonly encountered at the extremities of the females and is characterized by rapid growth, local invasion, and distant metastasis due to the paucity of specific diagnostic clinical and radiological features, the pathological evaluation is imperative for a definite diagnosis of chondroid syringoma especially for those occurring at atypical sites.⁷

7.4. Sebaceous hyperplasia

Sebaceous hyperplasia is a common, benign condition wherein single or multiple asymptomatic discrete yellowish papules present commonly over face, rarely over chest and genitalia. Surface of the lesions is usually smooth to slightly verrucous.

Therapeutic options include oral isotretinoin, electrocautery, chemical cautery, cryotherapy surgical excision and photodynamic therapy (with combined use of 5-aminolevulinic acid and visible light).⁸

8. Conclusion

Difficulty in diagnosing verrucous lesions can be resolved with knowledge and awareness of different diseases presenting as such. Correlation of histopathology with the clinical presentation is proven to be most important investigation for such cases.

9. Source of Funding

None.

10. Conflict of Interest


None.


References


1. Chauhan K, Jassal V, Sara GK, Bansal V, Hatwal V. Histopathological Study of Verrucous Lesions and its Mimics. *J Microsc Ultrastruct.* 2021;9(2):86–97.
2. Gloster HM, Neal K. Skin cancer in skin of color. *J Am Acad Dermatol.* 2006;55(5):741–60.
3. Khullar G, Saikia UN, De D, Radotra BD. Nonmelanoma skin cancers: An Indian perspective. *Indian J Dermatopathol Diagn Dermatol.* 2014;1(2):55–62.
4. Malhotra P, Singh A, Ramesh V. Syringocystadenomacystadenoma papilliferum on the thigh: An unusual location. *Indian J Dermatol Venereal Leprol.* 2009;75(2):170–2.
5. Aswal P, Hemdani R, Johri N, Chatterjee M. Unusual sites with variable presentation of de novo syringocystadenoma papilliferum: A case series. *J Family Med Prim Care.* 2022;11(10):6593–7.
6. Sundling RA, So E, Logan DB. Chondroid Syringoma: A case Reporting the Foot and Ankle. *Foot Ankle Spec.* 2017;10(2):167–9.
7. Sungur N, Uysal A, Gümüş M. An unusual chondroid syringoma. *Dermatol Surg.* 2003;29(9):977–9.
8. Nair AP, Diwan NG. Sebaceous Hyperplasia Mimicking Linear Wart Over Ear. *Int J Trichology.* 2015;7(4):170–2.

Author biography


Sannidhi Sara S, Junior Resident  <https://orcid.org/0000-0002-5416-0603>

Vathsala S, Professor  <https://orcid.org/0000-0003-2229-5674>

Megha M Shrikantaiah, Senior Resident  <https://orcid.org/0000-0003-1416-3786>

Madhu Sudhana M, Assistant Professor
 <https://orcid.org/drmadhu880@gmail.com>

Cite this article: Sannidhi Sara S, Vathsala S, Shrikantaiah MM, Madhu Sudhana M, Somashekar YB. Verrucous lesion mimics- A case series. *IP Indian J Clin Exp Dermatol* 2023;9(4):240-243.

Somashekar YB, Professor  <https://orcid.org/0009-0003-2390-8054>