Papillary Carcinoma: A Rare Cause Of Cutaneous Lesion on Dorsum of Nose

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Abstract

The skin of the nose is a common site for various benign and malignant lesions. Herein, we report a cutaneous nodular lesion on the dorsum of the nose in an 80-year-old female, which was surgically excised under local anesthesia. On histopathological examination, she was diagnosed with papillary carcinoma, a very rare disorder at such a location. The patient was followed-up and no recurrence was noted.

Keywords

► papillary
► carcinoma
► nose

Introduction

The nose is an exposed and highly visible area of the face. Therefore, cutaneous lesions of nose are very easily noticed by the patients themselves and other people. The high concentration of sebaceous glands, increased ultraviolet radiation exposure, and genetic abnormalities account for the various benign and malignant cutaneous lesions of the nose such as rhinophyma, hemangioma, squamous cell carcinoma, melanoma, basal cell carcinoma, etc.1

Papillary carcinoma, also known as digital papillary adenocarcinoma, is a rare tumor of the sweat glands, which is mainly localized to the digits. The presence of such a lesion in the face is very rare. Herein, we report a cutaneous nodular lesion on the dorsum of the nose, which was surgically excised. On histopathological examination, the patient was diagnosed with papillary carcinoma.

Case History

An 80-year-old female patient presented to the ENT OPD with a painless growth on the dorsum of the nose since 2 years, which was insidious in onset. It was initially small and had progressively increased to its present size. There was no history of trauma or any other swelling in other parts of the body. There was no history of weight loss or loss of appetite. On local examination, a large solitary, solid, irregular-shaped, nodular, pinkish red colored growth was noted on the dorsum of the nose. The growth was about 4 × 5 cm in size, nontender, firm in consistency, with well-defined edges, had restricted mobility, and did not bleed on touch (►Fig. 1).

Anterior rhinoscopy examination did not reveal any abnormality. Diagnostic nasal endoscopy was done, and no abnormalities were noted. Paranasal sinus examination was within normal limits. There was no palpable lymphadenopathy. Rest of the ENT examination was within normal limits. Preoperative blood investigations and chest X-ray were done, and COVID-19 reverse transcriptase polymerase chain reaction (RTPCR) test was done, which was negative. Wide excision of lesion was performed, taking a 1 cm healthy margin, and primary closure was done. The excised specimen was sent for histopathological examination, which gave a diagnosis of papillary carcinoma (►Figs. 2 and 3). Patient was followed-up for 8 months (►Fig. 4) and no recurrence was noted.

Discussion

Papillary carcinoma is a rare malignant tumor of sweat glands, which is usually located on the digits. It is also known
by the term digital papillary adenocarcinoma. It is a rare neoplasm of the eccrine sweat gland cells.

The primary tumor commonly presents as a slow-growing solitary mass, usually between the nail bed and distal interphalangeal joint. There were few instances of cases being reported at unusual sites such as the lips and ears. In our case, the lesion was also located at an atypical location on the dorsum of nose, presenting as a nodular growth.

The tumor has an aggressive course in terms of local invasion, with a 14% chance of metastasis. The most common site for metastasis is lung, whereas lymph nodes, brain, skin, bones, and kidneys are the other sites. In our case, there were no findings of pulmonary metastasis on chest X-ray.

As the tumor has a high-recurrence rate, the recommended treatment is one of wide local excision of the primary tumor, but no objective margin is defined in the literature. There were few reports in which Mohs micrographic surgery was performed as excision after punch biopsy and as a reexcision procedure.

Sentinel node biopsy may be done for staging of the tumor to potentially identify patients who may avail benefit of lymph node dissection thereafter. There is no evidence available to support the use of positron emission tomography (PET) imaging, chemotherapy, or radiotherapy.

Confirmation of the diagnosis is by histopathology. The characteristic histologic features include tubuloalveolar and ductal structures, with areas of papillary projections protruding into cystic lumina. The stroma varied from thin fibrous septae to areas of dense hyalinized collagen.

Close patient follow-up is recommended for all such cases of papillary carcinoma. We have followed-up the case for 8 months and no recurrence has been noted.
**Conclusion**

Lesions such as papillary carcinoma are rare differential diagnosis of cutaneous lesions on the dorsum of the nose but should always be kept in mind while evaluating such lesions.

**Ethical Approval**

The study followed the ethical guidelines of the Declaration of Helsinki. Written informed consent was taken from the patient for publication in the journal.

**Conflict of Interest**

None declared.

**References**