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3 **Ulcerated SyringocystadenomaPapilliferum of the Scalp in an Adult Woman: A Clinical and Dermoscopic**  
4 **Description of a De Novo Case**  
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8 **Abstract**

9 Syringocystadenom papilliferum (SCAP) is a rare benign adnexal tumor of apocrine or eccrine origin, typically  
10 presenting at birth or during early childhood. It most commonly occurs on the scalp or face, frequently arising in  
11 association with a sebaceous nevus. We report a rare case of an ulcerated, rapidly enlarging  
12 syringocystadenom papilliferum occurring de novo on the temporal scalp of a 45-year-old woman without any pre-  
13 existing lesion. Complete excisional biopsy was performed, and no recurrence was observed after six months of  
14 follow-up. This case underscores the importance of accurate clinical evaluation and histopathologic assessment in  
15 distinguishing benign adnexal tumors from malignant mimickers.

16 **Key words:-**

17 Syringocystadenom papilliferum; Apocrine tumor; Adnexal neoplasm; Scalp; Adult-onset.  
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19 .....

20 **Introduction:-**

21 Syringocystadenom papilliferum (SCAP) is a benign adnexal neoplasm originating from  
22 apocrine sweat glands [1]. It accounts for less than 1% of all adnexal tumors.

23 Typically, SCAP appears at birth or before puberty, most often on the scalp, and is frequently  
24 associated with a sebaceous nevus in approximately 30–40% of cases [1,2].

25 Adult-onset SCAPs are uncommon, and cases occurring de novo—without a pre-existing  
26 lesion—are particularly rare [3,4]. Although benign, SCAP can present with unusual clinical  
27 features that mimic malignant cutaneous tumors, posing diagnostic challenges [5].

28 We describe a case of de novo ulcerated SCAP of the temporal scalp in a middle-aged woman,  
29 emphasizing its atypical clinical and dermoscopic findings.  
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32 **Case Report**

33 A 45-year-old woman, with no significant medical history, presented with a nodular lesion on the  
34 left temporal scalp that had been present for three years. The patient reported a recent rapid  
35 enlargement of the lesion over the preceding two months, accompanied by occasional bleeding  
36 upon contact. Clinical examination revealed a 1.5-cm ulcerated, exophytic, and friable nodule  
37 resting on an erythematous base. The lesion was tender, bled easily when touched, and there was  
38 no associated lymphadenopathy. No other cutaneous abnormalities or underlying nevus were  
39 observed.( Figure 1)



40

41 **Figure 1: Clinical examination revealed a 1.5-cm ulcerated, exophytic, and friable nodule**  
42 **resting on an erythematous base.**

43 Dermoscopy of the lesion revealed a yellowish background, central polymorphous vascular  
44 structures, and peripheral milky-red areas ( Figure 2). These dermoscopic features, although not  
45 specific, were more suggestive of an adnexal tumor than of a malignant lesion such as non-  
46 pigmented basal cell carcinoma or amelanotic melanoma.



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48 **Figure 2: Dermoscopy of the lesion revealed a yellowish background (asterisk), central**  
49 **polymorphous vascular structures (circle), and peripheral milky-red areas (arrow).**

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A complete excisional biopsy of the lesion was performed under local anesthesia.

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Histopathologic examination revealed a dermal epithelial proliferation connected to an eroded

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epidermis. The tumor was composed of tubulo-papillary structures lined by a double epithelial

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layer. The inner layer consisted of apocrine secretory cells showing decapitation secretion, while

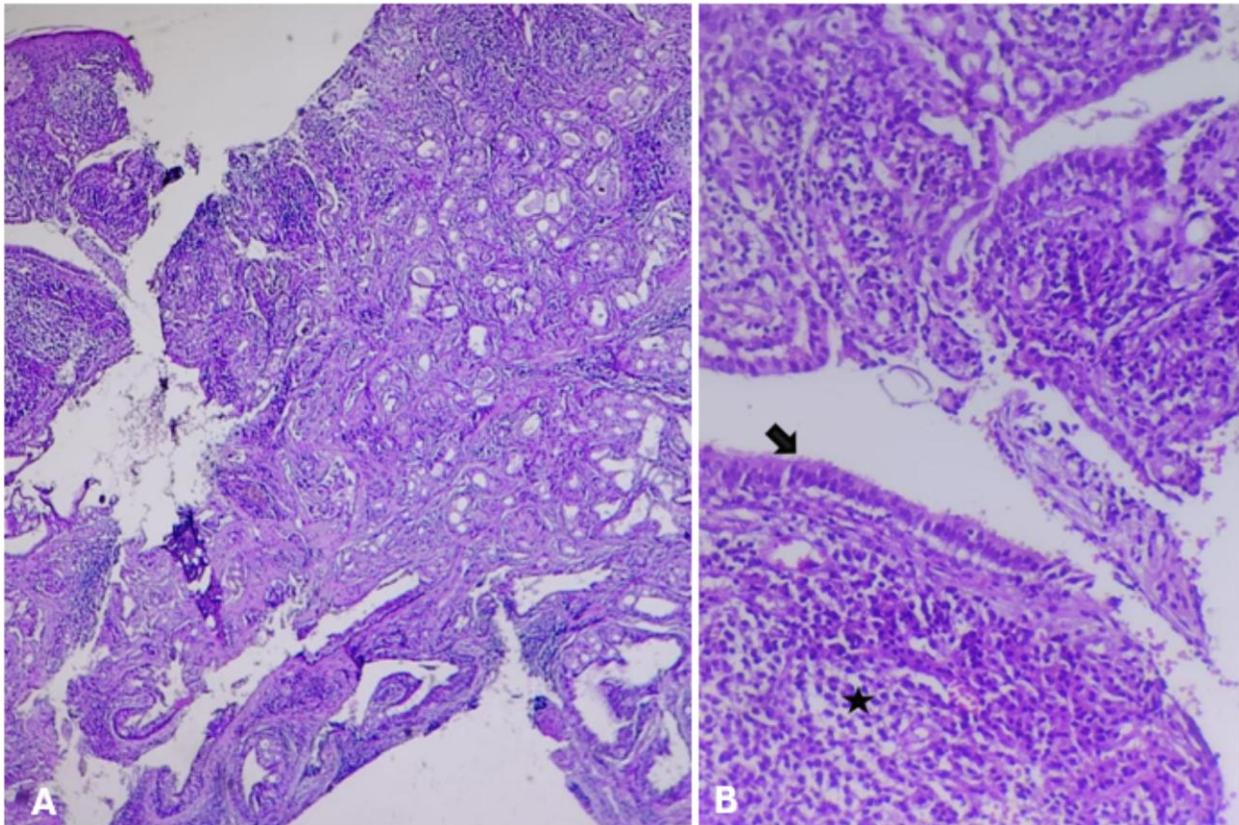
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the outer layer was composed of cuboidal myoepithelial cells. The fibrovascular stroma showed

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a dense plasmacytic infiltrate ( Figure 3). These features were consistent with the diagnosis of

56 syringocystadenomapapilliferum. The patient underwent complete surgical excision; however,  
57 she was subsequently lost to follow-up.



58

59 **Figure 3. H&E staining of the excisional biopsy specimen: (A) Low-power view (×100)**  
60 **demonstrating a cystic epidermal invagination with multiple papillary projections lined by**  
61 **glandular epithelial cells. (B) High-power view (×200) showing papillary structures lined by**  
62 **a characteristic double epithelial layer—an inner apocrine secretory layer and an outer**  
63 **cuboidal myoepithelial layer (arrow)—overlying a fibrovascular stroma densely infiltrated**  
64 **with plasma cells (asterisk).**

65

### 66 **Discussion:**

67 Syringocystadenomapapilliferum is an uncommon benign adnexal tumor that generally occurs  
68 during childhood or adolescence and often develops in association with a sebaceous nevus [1,2].  
69 The scalp is the most frequent site, accounting for up to 75% of cases [1,3]. The typical  
70 presentation is a slowly enlarging papule or plaque, occasionally verrucous or crusted. In our  
71 case, the lesion appeared de novo in adulthood, with ulceration and rapid growth, which made  
72 the clinical diagnosis challenging [4].

73 Syringocystadenomacystadenoma is an uncommon benign adnexal tumor that generally occurs  
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78 the clinical diagnosis challenging [4].

79 Dermoscopy, although not pathognomonic, can aid in the preoperative evaluation of adnexal  
80 tumors. Reported dermoscopic features of syringocystadenomacystadenoma include a yellowish  
81 or pinkish background, polymorphous vascular structures, and milky-red areas, reflecting the  
82 papillomatous and vascular nature of the tumor [2,3]. In contrast, amelanotic melanoma typically  
83 displays atypical polymorphous vessels with variable morphology (linear, dotted, or hairpin),  
84 often associated with milky-red areas and white structures, but usually lacks a yellowish  
85 background [6]. Similarly, non-pigmented basal cell carcinoma commonly shows arborizing or  
86 short fine telangiectatic vessels, sometimes accompanied by ulceration or shiny white structures  
87 [7]. In our case, the dermoscopic appearance was consistent with the reported features of SCAP  
88 and contributed to favoring an adnexal neoplasm over malignant entities such as amelanotic  
89 melanoma or non-pigmented basal cell carcinoma.

90 Histologically, SCAP is characterized by papillary and cystic invaginations extending from the  
91 epidermis and lined by a two-layered epithelium composed of apocrine and myoepithelial cells,  
92 with a dense plasma cell-rich stroma [1,5]. These findings were all observed in our patient,  
93 confirming the diagnosis.

94 Complete surgical excision remains the treatment of choice and is curative in most cases [1,2,5].  
95 Recurrence is rare and typically results from incomplete excision. Malignant transformation is  
96 exceptional. In our patient, complete removal of the lesion resulted in an excellent outcome, with  
97 no recurrence after six months of follow-up.

#### 98 **Conclusion:**

99 Syringocystadenomacystadenoma is a rare benign adnexal tumor that may occasionally arise de  
100 novo in adulthood and clinically mimic malignant cutaneous neoplasms. Although dermoscopic  
101 features are non-specific, they may suggest an adnexal origin and aid in distinguishing SCAP  
102 from amelanotic melanoma and non-pigmented basal cell carcinoma. Histopathological  
103 examination remains the gold standard for diagnosis, and complete surgical excision is curative,  
104 with an excellent prognosis.

105

#### 106 **Figure Legends:**

107 **Figure 1:** Clinical examination revealed a 1.5-cm ulcerated, exophytic, and friable nodule  
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109 **Figure 2:** Dermoscopy of the lesion revealed a yellowish background (asterisk), central  
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111 **Figure 3.** H&E staining of the excisional biopsy specimen: (A) Low-power view ( $\times 100$ )  
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115 myoepithelial layer (arrow)—overlying a fibrovascular stroma densely infiltrated with plasma  
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