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6 **Re: Extramammary Paget disease - diagnostic and therapeutic**  
7 **challenges**

8

9 Dear Sir,

10 Pegalajar-García MD *et al.* reported in this Journal the case study of a 70-year-old man,  
11 who had the diagnosis of extramammary Paget's disease (EMPD).<sup>1</sup> At first, the main  
12 clinical hypothesis considered for differential diagnosis included Langerhans cell  
13 histiocytosis, Bowen's disease, amelanotic melanoma, besides mycosis fungoides. But a  
14 dermoscopy evaluation revealed whitish and dotted vessels suggestive of the EMPD  
15 diagnosis, which was further confirmed by the gross cystic disease fluid protein 15  
16 (GCDFP-15), mammaglobin and CK7 positive, and HMB 45 and S-100 protein negative.  
17 Imaging and complementary laboratory determinations discarded concomitant  
18 malignancies, a major prognostic factor, which can occur in contiguous (23%) or distant  
19 (8%-46% locations. He underwent the excision of the plaque, but non-surgical procedures  
20 include the management utilizing imiquimod, photodynamic therapy, or radiotherapy.  
21 The authors emphasized the common genital or perianal and rare axillary sites; the  
22 prevalence from 35 to 80 years of age; the high recurrence rate, and the long follow-up.<sup>1</sup>  
23 Considering the importance of this case report to increase the suspicion index of non-  
24 specialists about the EMPD, which may evolve unsuspected or misdiagnosed, the  
25 objective is present a short review of additional literature data from 2022 and 2023.<sup>2-8</sup>  
26 Besides, the classical dermoscopic patterns of EMPD, as the milky-red and white  
27 structureless areas, polymorphous vascular patterns and glomerular vessel patterns,  
28 surface scales, ulcers, shiny white lines, and pigmentary structures must be highlighted;<sup>1,3</sup>  
29 this resource is useful to assess and detect recurrent EMPD, and improve the outcomes.<sup>3</sup>  
30  
31 Caruso G, *et al.* reviewed 96 studies (5 prospectives, 24 retrospectives, 30 case series,  
32 and 37 case reports) about the vaginal Paget's disease (VPD); the 5617 patients were aged  
33 between 29 and 100 years, with the average of 71 years at their diagnoses.<sup>2</sup> The majority

34 of VPD lesions were erythematous, eczematoid, and pruriginous; the median follow-up  
35 varied from one month to 9 years, with 23% to 73% of recurrences that were managed by  
36 new surgical excision or imiquimod, 5-fluorouracil, or radiotherapy.<sup>2</sup> The authors stressed  
37 the need of databases to better understand this challenging disease. Fang WC, *et al.*  
38 reported the use of dermoscopy to monitor recurrences of EMPD in four patients with  
39 histopathological diagnosis of EMPD in the axilla (n = 1) and in genital area (n = 3); 3  
40 patients had wide excision with clear surgical margins and one completed the treatment  
41 with photodynamic therapy (PDT) followed by topical use of imiquimod.<sup>3</sup> Interestingly,  
42 typical vascular patterns were found in the lesions of scrotum but not in those of axilla,  
43 possibly due to the axillary papillomatous epidermis and thicker dermis.<sup>3</sup> Navajas  
44 Hernández P, *et al.* reported a 85-year-old man with two decades of diagnosed ulcerative  
45 colitis (UC), who had the diagnosis of recent perianal primary Paget's disease and evolved  
46 to death before the radiotherapy management to control the invasive lesions.<sup>4</sup> The authors  
47 commented on the rarity of perianal PD (1.3% of all PD), the prevalence among 60-70  
48 year-old women, besides the CK7 and 34βE12 positive tumor markers; and the lack of  
49 literature data establishing a relationship between the UC and perianal PD.<sup>4</sup> Pérez JC, *et*  
50 *al.* performed a review on the diagnosis and treatment of EMPD localized or metastatic,  
51 and called attention about the low incidence of this entity, the lack of randomized clinical  
52 trials, and the role of publishing retrospective studies or case reports.<sup>5</sup> They also reported  
53 the case study of a 75-year-old woman with the diagnosis of vulvar PD, and inguinal  
54 lymph node implants of a poorly differentiated adenocarcinoma.<sup>5</sup> The CK7, EMA,  
55 androgen receptors, and CEA positivity; besides CK20, estrogen and progesterone  
56 receptors, and GCDFP 15 negative, confirmed metastases of vulvar origin.<sup>5</sup> She started  
57 chemotherapy (carboplatin AUC-4 plus paclitaxel) with a lymph node partial response,  
58 followed by the consolidation radiotherapy on the vulvar area plus pelvic and inguinal  
59 lymph node chains; as she had hepatic implants and the HER2 was positive 3+, the  
60 schedule was changed by trastuzumab and paclitaxel (suspended after neurotoxicity).<sup>5</sup>  
61 She was treated with only trastuzumab till moved to another state, with loss to follow-up.  
62 The authors commented on the few reported cases of anti HER2 treatment and androgen  
63 and/or estrogen blockade with favorable outcomes, which may justify the routine  
64 evaluation of the HER2, androgen, and estrogen receptors overexpression in vulvar PDs.<sup>5</sup>  
65 Sohn BS, *et al.* performed a retrospective study to evaluate the treatment outcomes among  
66 37 patients with advanced and metastatic EMPD; 6 had locoregional and 31 had systemic  
67 chemotherapy as first-line treatments (22 platinum-based had an objective response rate

68 (ORR) of 45.5%, and 8 taxane-based had 62.5%, while the systemic chemotherapy  
69 combined with anti-HER2 antibody had an ORR of 100%.<sup>5</sup> They stressed the lack of  
70 standard treatment for advanced or metastatic EMPD, but trastuzumab plus taxane can  
71 propitiate longer survival than monotherapy or platinum- or taxane-based chemotherapy.<sup>5</sup>

72

73 Early diagnosis of EMPD often constitutes a challenging task for non-specialists, and due  
74 to rarity, the advanced or metastatic have no established standard treatment. Classical  
75 dermoscopic patterns are useful to detect EMPD and improve the prognosis.

76

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## 82 **References:**

83 1. Pegalajar-García MD, Mellado J, Ruiz-Villaverde R, Navarro-Triviño FJ.  
84 Erythematous plaque in the left axillary region: A diagnostic challenge where dermoscopy  
85 can help. Sultan Qaboos Univ Med J. 2023;1(1). ePub Ahead of Print. doi:  
86 10.18295/squmj.5.2023.034.

87 2. Caruso G, Barcellini A, Mazzeo R, Gallo R, Vitale MG, Passarelli A, et al. Vulvar  
88 Paget's disease: A systematic review of the MITO Rare Cancer Group. Cancers (Basel).  
89 2023;15(6):1803. doi: 10.3390/cancers15061803. PMID: 36980691.

90 3. Fang WC, Chou PC, Chiu LW, Ke CL, Cheng ST. Dermoscopy as a diagnostic  
91 and monitoring tool for recurrent extramammary Paget's disease. Indian J Dermatol.  
92 2022;67(6):819-820. doi: 10.4103/ijd.ijd\_771\_22. PMID: 36998839.

93 4. Navajas Hernández P, Valdés Delgado T, Machuca Aguado J, González-Cámpora  
94 R, Argüelles Arias F. Perianal Paget's disease. Rev Esp Enferm Dig. 2023;115(8):461-  
95 462. doi: 10.17235/reed.2022.9304/2022. PMID: 36412481.

96 5. Pérez JC, Salgado AC, Pérez-Mies B, Rullán JAD, Ajuria-Illarramendi O, Alia  
97 EMG, et al. Extramammary Paget disease: A therapeutic challenge, for a rare entity. Curr  
98 Oncol Rep. 2023;25(10):1081-1094. doi: 10.1007/s11912-023-01434-0. Erratum in: Curr  
99 Oncol Rep. 2023. doi: 10.1007/s11912-023-01456-8. PMID: 37421583.

100 6. Sohn BS, Kim J, Kim M, Hong JY, Lee J, Park SE, et al. Treatment outcomes of  
101 advanced/metastatic extramammary Paget's disease in Korean patients: KCSG-RC20-06.  
102 Cancer Med. 2023;12(14):15159-15175. doi: 10.1002/cam4.6190. PMID: 37264748.

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## 104 **Response from Authors**

105 Dear Sir,

106 Thank you for your interesting comment to our research. EMPD is considered an  
107 infrequent entity, even more outside genital location. As you have emphasized,  
108 dermoscopy is an essential tool for the suspicion of this entity, but also for detection of  
109 recurrences<sup>1</sup>, which are very common in this disease. It is remarkable that Fang et al<sup>1</sup>  
110 mention in their article the lack of vascular patterns in the axillary lesion, as in our case.  
111 They try to explain this finding based on axilla's histology, with papillomatous epidermis  
112 and thicker dermis. The presence of papillomatous structures we describe in our report  
113 may be consistent with this fact. This characteristic could rise the suspicion of this tumour,  
114 in addition to the rest of the mentioned findings<sup>2</sup>.

115

116 Although the important role of non-specialists and dermatologists in recognizing this  
117 entity through clinical and dermoscopic findings, we should point out that histology is  
118 the gold standard for EMPD's diagnosis. Biopsy should be performed in all these cases in  
119 order to establish a proper diagnosis, but also because it helps to distinguish between  
120 primary or secondary disease<sup>3</sup>.

121

122 We agree with the affirmation that strong evidence based on clinical trials and consensus  
123 guides about its management and treatment is mandatory, both in local EMPD disease but  
124 even more in advanced and metastatic EMPD.

125

126 In conclusion, EMPD is a rare cutaneous tumour where dermoscopy can be essential for  
127 early diagnosis, both of initial lesion or recurrences during the following, and robust  
128 scientific investigation is needed to improve the clinical attendance for these patients.

129

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136 **References:**

137 1. Fang WC, Chou PC, Chiu LW, Ke CL, Cheng ST. Dermoscopy as a diagnostic  
138 and monitoring tool for recurrent extramammary Paget's disease. *Indian J Dermatol.*  
139 2022;67(6):819-820. doi: 10.4103/ijd.ijd\_771\_22. PMID: 36998839.

140 2. Schmitt AR, Long BJ, Weaver AL, McGree ME, Bakkum-Gamez JN, Brewer JD  
141 et al. Evidence-Based Screening Recommendations for Occult Cancers in the Setting of  
142 Newly Diagnosed Extramammary Paget Disease. *Mayo Clin Proc.* 2018;93(7):877-883.  
143 doi: 10.1016/j.mayocp.2018.02.024.

144 3. Liao X, Liu X, Fan X, Lai J, Zhang D. Perianal Paget's disease: a  
145 clinicopathological and immunohistochemical study of 13 cases. *Diagn Pathol.*  
146 2020;15:29. doi: 10.1186/s13000-020-00952-w.

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