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GATA3 expression in primary vulvar Paget disease: a potential pitfa

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GATA3 expression in primary vulvar Paget disease: a potential pitfall leading to misdiagnosis of pagetoid urothelial intraepithelial neoplasia.

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Erratum in

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Abstract

AIMS: GATA3 has been reported as a specific **urothelial** marker among organs in the pelvic region, and has been classified as highly sensitive and specific for **urothelial** and breast carcinomas. Our aim was to verify **GATA3 expression** in extramammary **Paget disease**, and to determine whether it can be use to differentiate **primary vulvar Paget disease** from **pagetoid urothelial intraepithelial neoplasia** (PUIN). We also analysed HER2 protein **expression** and HER2 gene amplification and their roles as prognostic factors in extramammary **Paget disease**.

METHODS AND RESULTS: We analysed **GATA3** and HER2 **expression** in 11 **primary vulvar Paget disease** cases and two PUIN cases. All cases showed nuclear **expression** of **GATA3**. Of 13 cases, five were equivocal for HER2 **expression** (score 2+) and one was positive (3+). Fluorescence in-situ hybridization results showed amplification in two of these six cases. Both HER2-amplified cases were invasive.

CONCLUSION: GATA3 was positive in all extramammary **Paget disease** cases tested (13 cases), and it has no value for differentiating between **primary** and secondary **vulvar Paget disease** from the urological tract. HER2 amplification might confer an aggressive and invasive pattern in **primary vulvar Paget disease**, as both amplified cases showed an invasive pattern.

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KEYWORDS: GATA3; extramammary Paget disease; pagetoid urothelial intraepithelial neoplasia; vulvar Paget disease

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