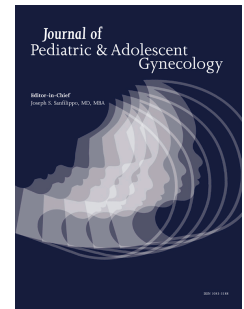


Accepted Manuscript

Case Report: Low-Grade Astrocytoma Within A Mature Cystic Teratoma In An Adolescent Patient

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PII: S1083-3188(17)30316-9

DOI: [10.1016/j.jpbg.2017.10.005](https://doi.org/10.1016/j.jpbg.2017.10.005)

Reference: PEDADO 2172

To appear in: *Journal of Pediatric and Adolescent Gynecology*

Received Date: 12 April 2017

Revised Date: 9 October 2017

Accepted Date: 15 October 2017

Please cite this article as: Yoder N, Marks A, Hui P, Litkouhi B, Cron J, Case Report: Low-Grade Astrocytoma Within A Mature Cystic Teratoma In An Adolescent Patient, *Journal of Pediatric and Adolescent Gynecology* (2017), doi: 10.1016/j.jpbg.2017.10.005.

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ABSTRACT

BACKGROUND Mature cystic teratomas are the most common ovarian neoplasm in adolescents. They are typically benign, however malignant transformation rarely occurs. We report a low-grade astrocytoma arising from a mature cystic teratoma in an adolescent patient.

CASE The patient was a 12-year-old female with an asymptomatic ovarian cyst and subsequent cystectomy. Final pathology identified a solid tumor with glial tissue within the cyst, reported as low-grade astrocytoma arising in a mature cystic teratoma.

SUMMARY AND CONCLUSION There is little data on astrocytomas in the gynecologic tract. Risk factors for malignant transformation in a mature cystic teratoma include increased age, postmenopausal status, elevated CA-125, and large tumor size. Interestingly, this patient had a history of partial trisomy 20, which has been associated with teratoma formation in a mouse model.

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