**Ovarian Microcystic Stromal Tumour: A case report of a rare and distinctive entity.**

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**Background:** Microcystic stromal tumour of ovary is a rare but distinctive entity, first described by Irving and Young in 2009.

**Case Presentation:** We report a case of a microcystic stromal tumour in left ovary with diameter about 8 cm in a 54 years old woman who underwent a oophorectomy. Macroscopically, the ovary showed thickened wall with brown gelatinous material in the luminal surface. Microscopically, a poorly defined tumour composed of mixture of polyclonal tumour cells arranged in solid nests with variable small cystic spaces which coalesced into some larger spaces with intervening dense fibrous stroma. The tumour was composed of small, cuboidal cells with pale granular eosinophilic cytoplasm and frequent cytoplasmic vacuolation. Nuclei were monomorphic, centrally located with inconspicuous nucleoli. Tumour cells showed strong diffuse nuclear and cytoplasmic staining for β-catenin and CD10, and nuclear staining for cyclin D1. Cytokeratin AE1/AE3, inhibin, calretinin and AFP were negative.

**Conclusion:** This report illustrates a typical case of microcystic stromal tumour of ovary with distinctive combined histologic and immunohistochemical features. Clinically, it is regarded as a benign neoplasm, however, given the rarity and limited resources, further studies are needed.

**References**

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Contribution: WGK contributed to writing this manuscript and WGK, MA conducted ancillary studies and contributed in making final diagnosis of this case. All authors reviewed the abstract.

**Statement of Originality**

**Title: Ovarian Microcystic Stromal Tumour: A case report of a rare and distinctive entity.**

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I declare that the following statements are true to the best of my knowledge with regard to the submission of this abstract.

1. I am the person who wrote this abstract originally.

2. I agree to submit this abstract to the Pathology Update 2025 conducted by Royal College of Pathologists Australasia.

3. I certify that this is the original abstract. It has not been previously published and is not currently under submission in other competition or elsewhere.

Sign: 

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Date: 21/10/2024