



PSP 75th Annual Convention Research Competition



Oral Presentation

The Association of β -catenin, E-cadherin, and CD10 Expression with Histologic Grade of Phyllodes Tumor: A Cross-Sectional Study

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ABSTRACT

Objective. This study aimed to determine the prevalence, clinicopathologic features, and immunohistochemical profile of PTs diagnosed at the Philippine General Hospital – Department of Laboratories from January 1, 2018 to December 31, 2022.

Methodology. This cross-sectional study reviewed surgical pathology cases of PTs within the study period. Immunoscopes for β -catenin, E-cadherin, and CD10 were evaluated, with outcomes including histopathologic grade, stromal cellularity, atypia, overgrowth, tumor margin, and mitotic count.

Results. A total of 191 PTs were diagnosed, with the fewest in 2020 (27 cases) and the most in 2018 (51 cases). Benign PTs comprised the majority (52.88%), followed by borderline (34.03%) and malignant (13.09%) types. Most patients (59.16%) were 50 years or older. Tumors commonly measured 5.0–19.99 cm, with the largest proportion ranging from 15.0–19.99 cm. No significant associations were observed between immunoscopes and tumor grade or morphologic features, possibly due to limited sample size and uneven group distribution. A weak positive correlation was found between β -catenin and E-cadherin, while other markers showed negligible correlation.

Conclusion. Larger studies are needed to clarify potential relationships between IHC expression and PT grading. This study contributes to the limited local data on PTs and highlights their possible diagnostic utility, especially in cases with overlapping features.

Key words. *Phyllodes tumors, Beta-catenin, E-cadherin, CD10*