

عنوان مقاله:

Expression of PAX γ and PAX λ in Wilms Tumor: A Tissue Microarray-based Immunohistochemical Study

محل انتشار:

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خلاصه مقاله:

Background & Objective: There is currently inadequate information about the expression of immunohistochemical markers in pediatric tumors. Paired box genes γ and λ (PAX γ and PAX λ) genes have an essential role in kidney organogenesis. This study aimed to investigate the IHC expression of PAX γ and PAX λ in Wilms tumor. Such study would be helpful in diagnosis and possibly in differentiation of this tumor from other mimics, especially in those of poorly differentiated type in small needle biopsy specimens. **Methods:** We performed a cross-sectional study on 45 Wilms tumor cases referred to Bahrami pediatric hospital between 2005 and 2015. Demographic data were collected from medical documents. Sections from related paraffin blocks were provided by the tissue microarray method, and immunohistochemical (IHC) staining was done for PAX λ and PAX γ . **Results:** The mean tumor size was 9.98 ± 4.95 cm. Favorable histology was seen in 84.4% of samples. PAX γ was expressed in 41 cases (91.1%), and PAX λ in 37 patients (82.2%). PAX γ and PAX λ expression was mostly seen in both blastemal and epithelial components (77.8% and 66.6%), respectively. Tumors with favorable and unfavorable histology did not significantly differ in PAX γ and PAX λ expression ($P=0.637$). We found a statically significant relationship between PAX λ expression and tumor size ($P=0.033$). **Conclusion:** PAX γ and PAX λ markers might helpful in diagnosis of Wilms tumor and may differentiate it from other histologically similar kidney tumors. PAX λ expression may be associated with larger tumor size. Tumors with favorable and unfavorable histology may not be different in PAX γ and PAX λ expression.

کلمات کلیدی:

Immunohistochemistry, PAX γ , PAX λ , Wilms tumor

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