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abstract

Survival Outcomes of Wilms' Tumor in Pediatric Patients Treated at King Fahad Medical City

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Introduction: Wilms' tumor (WT), or nephroblastoma, represents 90% of pediatric kidney cancer cases. This study investigates various aspects of WT in pediatric patients in Saudi Arabia, emphasizing overall and relapse-free survival rates. Objective is to evaluate survival patterns among nephroblastoma patients treated at King Fahad Medical City (KFMC), focusing on overall survival and disease-free survival rates. Additionally, the study aims to determine the outcomes of these patients and compare the survival rates with those reported in national and international protocols for Wilms' tumor.

Methodology: A retrospective analysis was conducted on pediatric patients diagnosed with Wilms' tumor in Saudi Arabia treated at KFMC. Survival rates were calculated, and factors influencing relapse were analyzed.

Results: The study observed an overall survival rate of 95.1% and a relapse-free survival rate of 85.9%. An integrated treatment approach involving surgery, chemotherapy, and radiotherapy effectively controlled the disease both locally and systemically. Critical prognostic factors identified included disease stage and histopathological classification.

Conclusion: Despite the small cohort size limiting broad conclusions, the findings are consistent with international data. This study highlights the importance of collaborative efforts in Saudi Arabia. Future research should focus on clinical and biological characteristics to better identify risk factors for recurrence, facilitating tailored therapeutic strategies.