

## **ANALYSIS EXPRESSION OF FAS/CD95 AND HSP70 IN LOW GRADE AND HIGH GRADE BLADDER UROTHELIAL CELL CARCINOMA**

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### **ABSTRACT**

**Background:** Urothelial Cell Carcinoma, also called transitional cell carcinoma of the bladder is the most common malignancy in urinary tract. Prognosis of this disease is highly dependent on the histological grading at diagnosis. Fas/CD95 has a role in apoptotic process, whereas HSP70 has an antiapoptotic role. This study aimed to analyze the expression of Fas/CD95 and HSP70 in low grade and high grade urothelial cell carcinoma of the bladder.

**Methods:** Analytic observational study with cross sectional approach. Population and sample were paraffin blocks of urothelial cell carcinoma in the Laboratory of Anatomical Pathology Dr. Soetomo hospital in the period January 2011-December 2016. Each grading of urothelial cell carcinoma was randomly sampled. Immunohistochemistry with Fas/CD95 and HSP70 were performed. Expression of Fas/CD95 and HSP70 were assessed semiquantitatively. Expression of Fas/CD95 and HSP70 were analyzed using Mann-Whitney test and Spearman test.

**Result:** There were a significant different in expression of Fas/CD95 and HSP70 in Low Grade and High Grade Urothelial Cell Carcinoma. There were no significant correlation between the expression of Fas/CD95 and HSP70 in Urothelial Cell Carcinoma.

**Conclusion:** This Study showed difference expression of Fas/CD95 and HSP70 thus have an important role for grading urothelial cell carcinoma. There were no correlation between Fas/CD95 and HSP70 in urothelial cell carcinoma.

**Keyword:** Fas/CD95, HSP70, urothelial cell carcinoma