

عنوان مقاله:

The Correlation between CDFF and ABCGY Expression and Pathological Grades of Bladder Carcinoma

محل انتشار:

مجله بين المللي مطالعات سلامت, دوره 4, شماره 1 (سال: 1397)

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خلاصه مقاله:

Background: The human bladder cancer progression is accompanied by the growth of side-populations of cancer stem cells (CSCs). The expression of ABCGY and CDFF, as the CSC markers, may be associated with different pathological grades of bladder cancer. This study was designed to identify the changes occurring in ABCGY and CDFF in different types of bladder tumors at various grades. Methods: The sample included FY patients with bladder cancer (FT males; F females) with a diagnosis of transitional cell carcinoma (urothelial cancer) using cystoscopy. Based on the tumor pathological grade, we divided the tumor biopsies into two low-grade ($N=\gamma_{\circ}$) and high-grade ($N=\gamma_{1}$) groups. The tumor samples along with Y9 normal-looking bladder tissues were analyzed by techniques like immunohistochemistry (IHC) and total RNA extraction for gPCR.Results: Based on the results obtained by IHC analysis of ABCGY and CDFF protein in bladder low- and high-grade tumors, these CSC markers showed significant elevation in malignant tissues in comparison to the normal bladder tissues. The scoring of ABCGY expression in normal, low-grade and high-grade tissues was YA, IYo, and IFo respectively. The CDFF scores in the normal bladder, low-grade and high-grade tissues were found to be o.F, 11.0, and Y9.o, respectively. The IHC data showed inconsistency with the gPCR data, suggesting an overexpression of ABCGY (F-F.& folds) and CDFF (10-YY folds) in the low and high-grade tumors in comparison to the normal bladder tissue.Conclusions: Finding a good relationship between ABCGY and CDFF markers and different grades of bladder cancer demonstrated that these markers can be seen as potential and predictive indicators of bladder malignancy. Background: The human bladder cancer progression is accompanied by the growth of side-populations of cancer stem cells (CSCs). The expression of ABCGY and CDFF, as the CSC markers, may be associated with different pathological grades of bladder cancer. This study was designed to identify the changes occurring in ABCGY and CDFF in different types of bladder tumors at various grades. Methods: The sample included FY patients with bladder cancer (FT males; F females) with a diagnosis of transitional cell carcinoma (urothelial cancer) using cystoscopy. Based on the tumor pathological grade, we divided the tumor biopsies into two low-grade (N=Y \circ) and high-grade (N=Y) groups. The tumor samples along with Y β normal-looking bladder

tissues were analyzed by techniques like immunohistochemistry (IHC) and total RNA extraction for qPCR. Results: ... Based on the results obtained

کلمات کلیدی: ABCG۲, CD۴۴, Bladder cancer, Tumor grade, Cancer stem cell.

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