

عنوان مقاله:

Transcriptional regulation of E-cadherin and oncoprotein EY by valproic acid in HPV positive cell lines

محل انتشار:

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خلاصه مقاله:

Objective(s): Valproic acid (VPA) has proven to be as one of the most promising useful drug with anticancer properties. In this study, we investigate the VPA effects on E-cadherin expression in HeLa, TC1, MKN45, and HCT116 cell lines. This study assesses the effects of VPA on human papillomavirus EY expression in HPV positive cell lines. **Materials and Methods:** Cell lines were treated by 2 mmol/l VPA and expression of E-cadherin and EY was analyzed by quantitative real-time PCR. Student's t test and ANOVA were used to determine changes in expression levels. **Results:** The results revealed that mean of E-cadherin expression is increased by VPA 1.8 times in HCT116 and MKN45 cell lines, also the mean of E-cadherin mRNA levels is up-regulated 2.9 times in HeLa and TC1 cell lines. So, E-cadherin augmentation induced by VPA in HeLa and TC-1, HPV positive cell lines, is higher than HPV negative cell lines MKN45 and HCT116. The mean of HPV EY expression is decreased by VPA, 4.6 times in HeLa and TC-1 cell lines. **Conclusion:** This study demonstrates that re-expression of E-cadherin by VPA in HPV positive cell lines is more than HPV negative cell lines. Whereas, HPV EY reduces the expression of E-cadherin, reduction of HPV EY expression by VPA is related to more augmentation of E-cadherin in HPV positive cell lines. So, this study demonstrates that VPA has more anticancer properties in HPV positive cell lines, and could potentially be a promising candidate for cervical cancer treatment.

کلمات کلیدی:

Cervical Cancer, E-cadherin, HPV, Valproic acid

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