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靛玉红甲肟对奈达铂抗人食管癌EC-1细胞的化疗增效作用

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Anti-tumor Effect of Indirubin-3'-monoxime Combined with Nedaplatin on Human Esophageal Cancer Cell Line EC-1

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关键词: 食管癌 靛玉红甲肟 奈达铂 细胞周期

Abstract: Objective To study the anti-tumor effect of Indirubin-3'-monoxime combined with Nedaplatin(Nap) on the human esophageal cancer cell line EC-1, and to reveal its mechanism. Methods Human esophageal cancer line EC-1 was treated *in vitro* by Indirubin-3'-monoxime with or without Nap in various concentration. The cell growth was evaluated by MTT assay, cell cycle distribution were observed by flow cytometry, and the expression of apoptosis-related genes were analyzed by immunohistochemical staining method. Results Compared with Indirubin-3'-monoxime or Nap individual drug groups, Indirubin-3'-monoxime combined with Nap obviously increased the inhibitory rate of the human esophageal cancer cell line EC-1. In the groups treated by the combination of Indirubin-3'-monoxime and Nap, the cell cycle distribution was altered. In this case, the ratio of G₀/G₁ phase cell decreased, the G₂/M phase cell increased, the expression of following the treatment with Indirubin-3'-monoxime combined with Na, with Bcl-2 gene down-regulated, and the expression of Bax gene expression up-regulated. Conclusion Indirubin-3'-monoxime combined with Nap may obviously increase the inhibitory rate of the human esophageal cancer cell, and its mechanism may be to regulate cell cycle and to increase apoptosis-inducing effect which is regulated by several genes.

Key words: Esophageal cancer Indirubin-3'-monoxime Nedaplatin Cell cycle

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