Calcitriol inibe a proliferação e aumenta a apoptose no carcinoma epidermóide laringeal humano

[In vitro inhibition of human laryngeal squamous cell carcinoma cell line by 1,25(OH)2D3].

[Article in Chinese]

Source
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Abstract

OBJECTIVE:

The present study was to investigate the effect of 1,25(OH)2D3 on the proliferation and apoptosis of Lscc-02 laryngeal squamous cell carcinoma cell line.

METHOD:

Lscc-02 human laryngeal squamous cell carcinoma cell line was treated with 1,25(OH)2D3. Cell proliferation was evaluated by MTT assay, distribution of cell cycle and rate of apoptosis determined by flow cytometry, and cell morphology and structure observed by microscopy.

RESULT:

The results showed that(10(-10) - 10(-7)) mol/L 1,25(OH)2D3 inhibited the proliferation of Lscc-02 cell line, and the inhibitory rate was positively associated with concentration of 1,25(OH)2D3 and treatment time. Cell cycle arrest in G0 /G1 phase and induction of apoptosis occurred after 1,25(OH)2D3.

CONCLUSION:

1,25(OH)2D3 can inhibit proliferation and induce apoptosis in Lscc-02 laryngeal squamous cell carcinoma cell line in vitro, which suggests that 1,25(OH)2D3 will be potential for the therapy of laryngeal squamous cell carcinoma.

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