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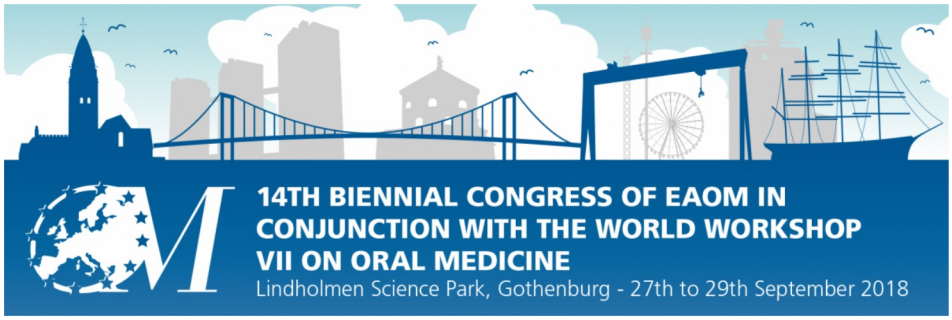

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Type of report:	Clinical research

Abstract title

Evaluation Of Inhibitory Effects Of Caffeine On Human Carcinoma Cells: A Primary Study

Abstract text

Introduction: Caffeine is one of the world's most consumed medications with the vast majority of dietary contributions coming from beverage consumption. Several effects of caffeine have been previously evaluated that most of them shows the inhibitory effects of caffeine on cancer cells.

Objective: However, the influence of caffeine on oesophagus carcinoma squamous cells and head and neck carcinoma cells is still not well understood. Here, we evaluated the association between different dose of caffeine with the proliferation rate of human oesophagus carcinoma squamous cell line KYSE-30 as well as human head and neck carcinoma cell line HN5.

Material and Methods: For this aim, seven concentrations of caffeine were prepared and added to the cells. After 3 and 7 days of incubation, the inhibitory effects of caffeine on the cells were measured using the conventional colometric MTT assay.

Results: The results revealed that caffeine has a significant inhibitory effect on both cell lines at the concentrations of 20, 50, and 70 mM.

Conclusions: This study shows caffeine can inhibit the proliferation of carcinoma cells and thereby an ideal candidate for therapeutic applications.

Topic

Cancer and cancer therapy

Presentation type

Poster presentation

Awards competition

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Application for: 1. Best poster presentation or Best oral presentation

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