

CONFERENCE ABSTRACT

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EXPERIMENTAL SKIN CARCINOMA BY UVB APPLICATION

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Key words: UVB, skin carcinoma, parameters

OBJECTIVES AND BACKGROUND

The aim of this research study was to evaluate the harmful effects at skin level induced by concomitant and repeated exposure to three toxic agents: UVB radiation, DMBA and TPA.

MATERIALS AND METHODS

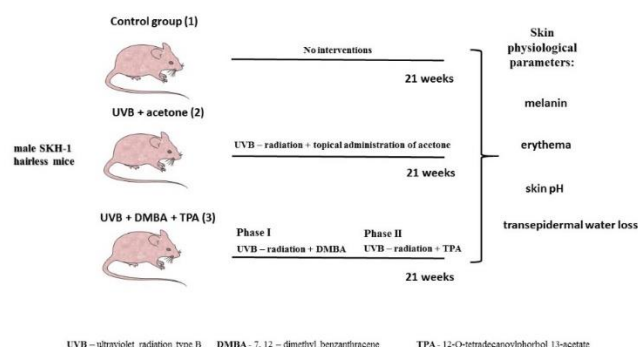
Experimental mice were divided in the following groups (n=5 mice/group): group 1 – healthy mice, group 2 – mice exposed to UVB – radiation and topical administration of acetone and group 3 – mice exposed to UVB – radiation and topical application of DMBA and TPA solutions (phase I - double tumor initiation and phase II - tumor promotion).

RESULTS

Application of these compounds led to the development of skin papilloma and to significant changes in skin parameters.

CONCLUSIONS

The barrier function of the skin was degraded in UVB exposed mice. DMBA and TPA depended on carcinogens schedule and correlated with skin carcinoma.



Graphical abstract: Schematic protocol of experimental skin carcinoma

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