



Prevention of skin cancer caused by natural UV irradiation for outdoor workers: Development of a curriculum for multipliers as a result of the project "ForMulA UV"

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Introduction

With the recognition of 'squamous cell carcinoma or multiple actinic keratosis of the skin caused by natural UV irradiation' as occupational disease no. 5103, their prevention is of utmost importance.



- In Germany, 2.5 3 million outdoor workers (e. g. farmers, construction workers, seafarers) are exposed to the sun for a major part of their working time.
- Multipliers (e. g. occupational physicians, safety engineers, employees of the accident insurance such as technical inspectorate) are pivotal to address outdoor workers. By advising and supporting outdoor workers, they play a key role concerning the planning and implementation of appropriate UV protection (see figure 1).
- It was the aim of the project ForMulA UV ('Konzeption einer Fortbildung für Multiplikatoren zur Prävention von Hautkrebs durch natürliche UV-Strahlung bei Beschäftigten in Außenberufen') to develop a target group-specific curriculum.

Methods

- To systematically develop a target group specific curriculum, the relevant literature was reviewed in order to identify the needs of the target group and training requirements as a first step.
- To further assess practical requirements and to develop a curriculum accordingly three focus group discussions with three persons each (♀: 6; ♂: 3) were conducted. We involved the above named stakeholders in the discussion (occupational



Figure 1: Multiplier effect in prevention to induce sun smart behavior.

physicians, safety engineers, labour inspectors etc.).

Results

A curriculum for multipliers, which form the basis for appropriate counseling, was developed in four modules (see Table 1).

- Requirements regarding different contents can vary between different target groups depending on their previous knowledge.
- Educational elements (e. g. experiments on UV protection) are important tools for the multipliers.
- Organizational and logistical aspects (e.g. reachability) are important for the decision of multipliers whether to participate on the training.

Module	Trainer	Topics	Contents
module I	physician	medical background	 pathogenesis clinical forms of skin cancer
module II	occupational safety and health expert	legal conditions	 background (e. g. contractual obligations of insured persons)
module III	psychologist / health educationalist	pedagogic-psychological expertise	 health psychological models approaches for counselling (e. g. motivational interviewing)
module IV	health educationalist	health education and prevention	 technical, organisational and personal sun- protective measures didactical and methodical preparation of contents (e. g. experiments)

Table 1: Overview of the basic modules of the target group specific curriculum for multipliers.

Conclusions

Through the integration of multipliers and the use of target group-specific teaching curricula prevention programs can be strengthened and standardized in the future.

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Original source:

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