

Prevention of skin cancer caused by natural UV irradiation for outdoor workers: Validation, implementation and evaluation of a curriculum for multipliers "ForMula UV 2.0"

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Introduction

With the recognition of '*squamous cell carcinoma or multiple actinic keratosis of the skin caused by natural UV radiation*' as **occupational diseases** in 2015, the number of suspected cases has risen annually. In 2017, **8,558 notifications** were registered by the German statutory social accident insurance bodies. Therefore, prevention is of utmost importance.

- Within the project '**ForMula UV 1.0**' we developed the **curriculum** for a 2-day multiplier training in prevention of occupational skin cancer, based on the steps **problem determination** and **strategy formulation** of the public health action cycle (see Figure 1).
- The **target group** of this intervention, which is intentionally designed as advanced training course, are the **multipliers** working in the section of German statutory social accident insurance bodies (e.g. employees of the prevention services).
- The aim of the follow-up project '**ForMula UV 2.0**' is the **implementation** and **evaluation** of the developed curriculum (see Figure 1).

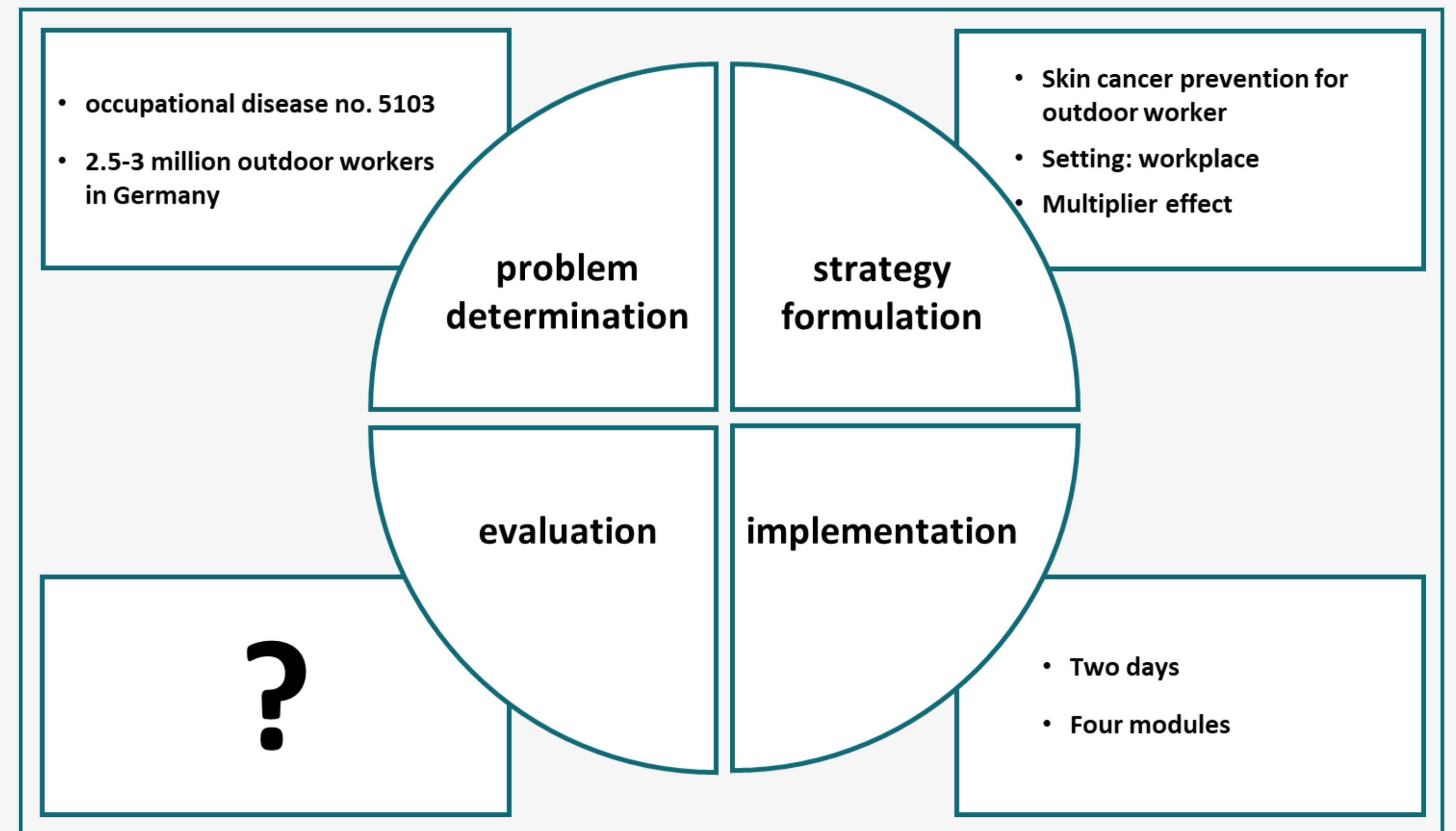


Figure 1: Process of intervention development according to the Public Health Action Cycle

Methods

- The participants of an **expert workshop** (including physicians, patients' mandatories and representatives of the National Skin Cancer Care Conference) will initially evaluate the curriculum through a process of formative assessment and reach a consensus on this concept.
- The overall concept (e.g. number of modules), content (e.g. scope, depth), methods (e.g. experiments) and organizational aspects (e.g. use of media) are **discussed and consented** with the experts.

Results

The intervention will be developed with the participation of potential **multipliers** (ForMula UV 1.0) and **experts** (see Figure 2).

- In this way, **requirements** of multipliers can be integrated.
- The experts ensure the **quality** of the content.
- This is followed by the first **implementation** of the curriculum in a pilot event (for multipliers).
- **Trainers and participants** evaluate the advanced training course considering practicability and utility.

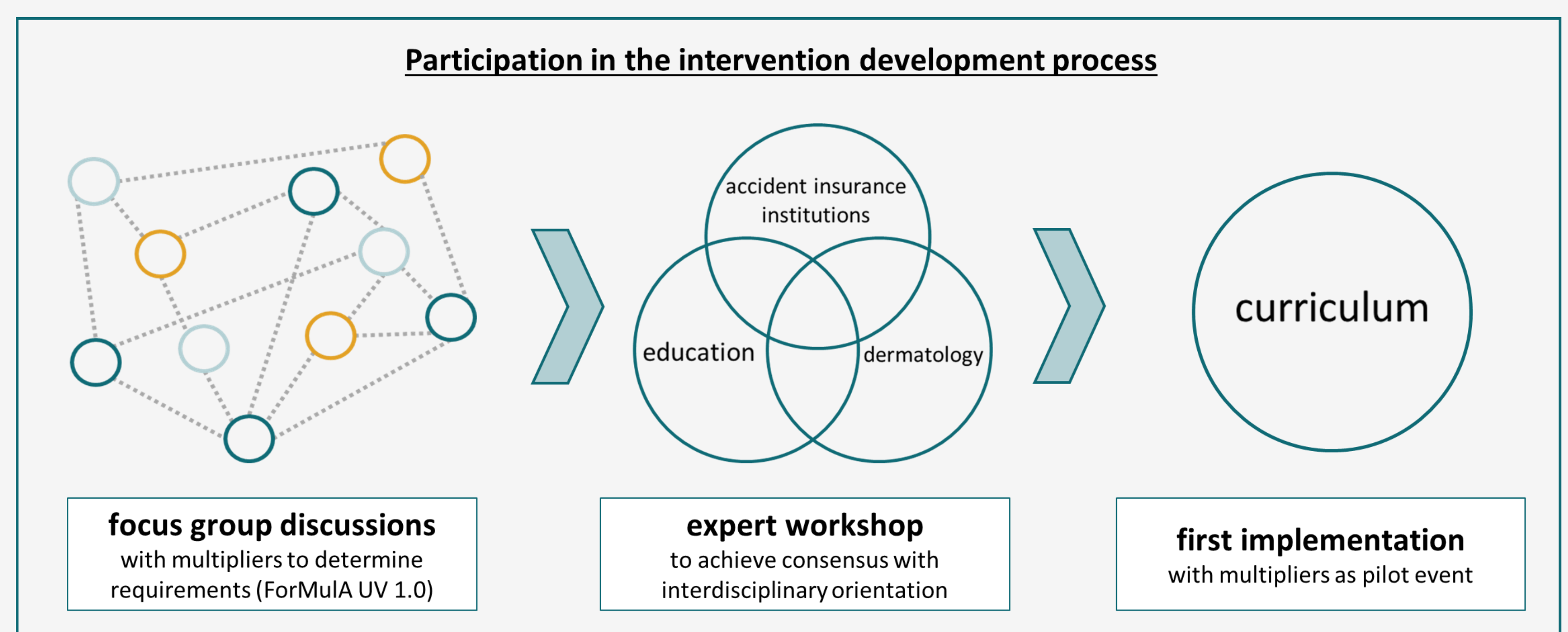


Figure 2: Participation in the intervention development process

Conclusions

In the future, the training will be offered regularly and thus, it will make a substantial contribution to the **prevention of occupational skin cancer caused by natural UV irradiation** in outdoor workers.

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