

A Web Based Educational Material Can Be Used In A Multimodal Approach To Change Hygienic Behavior Of Health Care Workers



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Background

Hand hygiene is recognized as one of the cornerstones in infection control practice but compliance to the guideline is low. To increase compliance the approach has to be multi-faceted and multimodal. Teaching hand hygiene is primarily done by lectures and bedside learning – but this is time consuming. A new interactive teaching is needed.

Objective

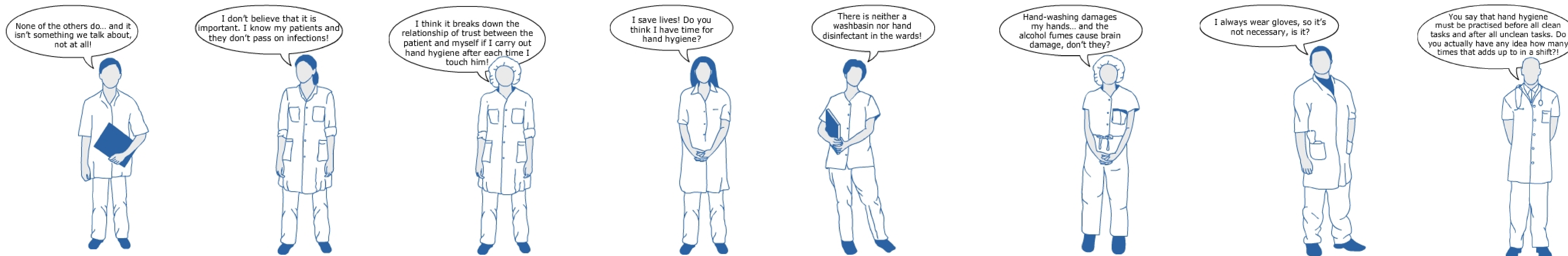
The aim is to clarify the educational challenges for a material that can support behavioral change.

Methods

Literature review, 1700 questionnaires based on decision theory, (multi attribute utility) and 15 qualitative semi structured interviews were conducted among HCW. Data were analyzed and discussed on the basis of theories on action, experience, reflective thinking, control and rituals. Best design of an educational material was chosen. Design and content were tested on HCW.

Results

The pre investigation suggested that hand hygiene is a field with great implications on interactions and dialogue between individuals.



Reflections on learning

You learn and change behavior by motivation. Your motivation is generated from the possibility to reflect on action:

- experimenting
- exploring
- having a constructive dialogue on hand hygiene with peers

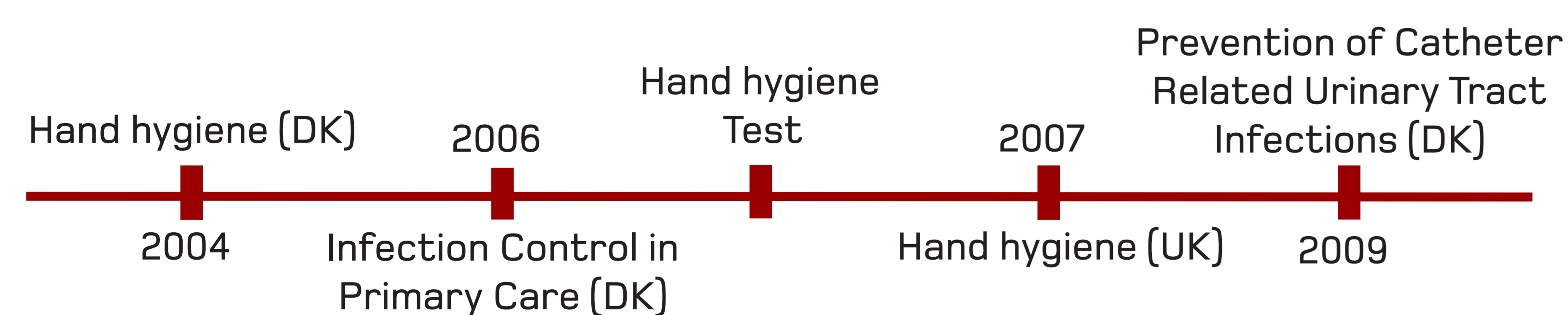
e-Learning can promote this!

User survey

- 600 weekly visitors (nurses, doctors, teachers and students from the healthcare sector, colleagues from adjoining fields)
- age 20-60+
- 8 minutes/13 pages/visitor
- 60 % first time users
- 75 - 87 % very satisfied with accessibility, navigation, content and design
- 90 % would recommend it to others.

Webanizer (2012), web questionnaire 2008

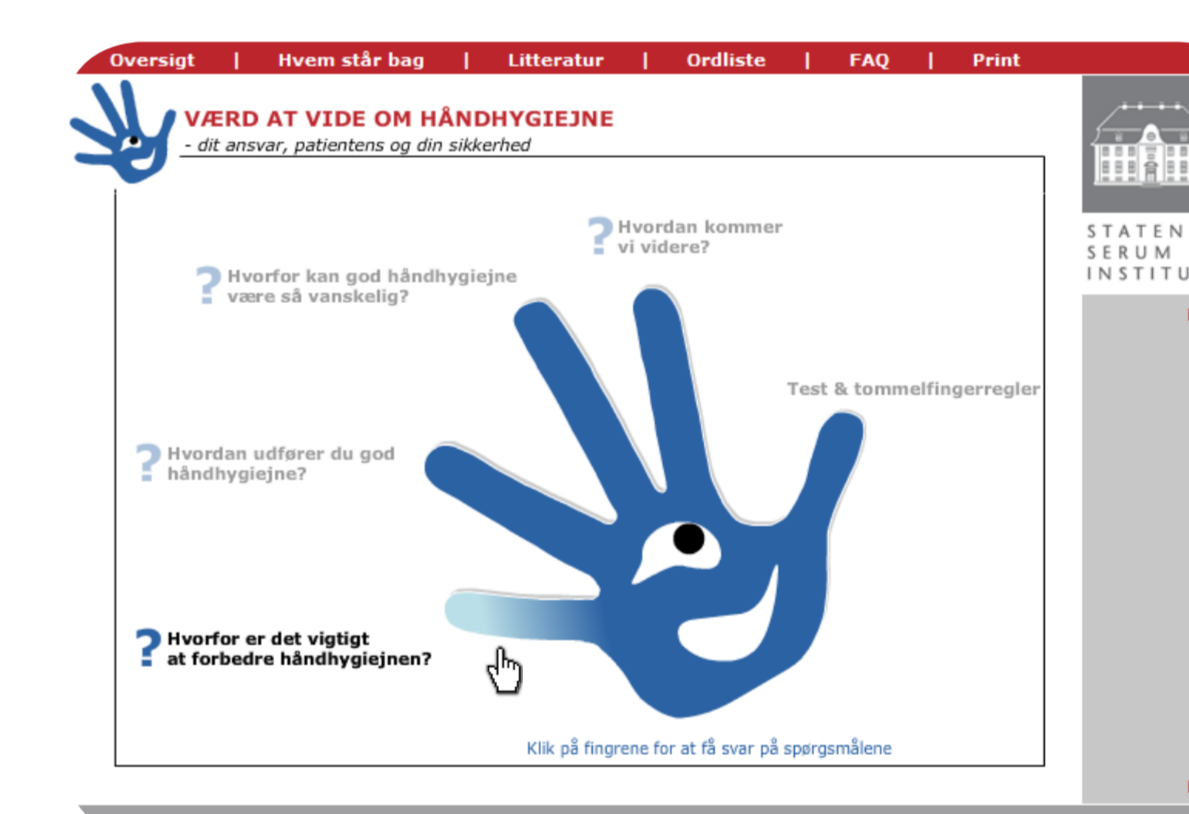
Status on web based educational material launched on www.ssi.dk



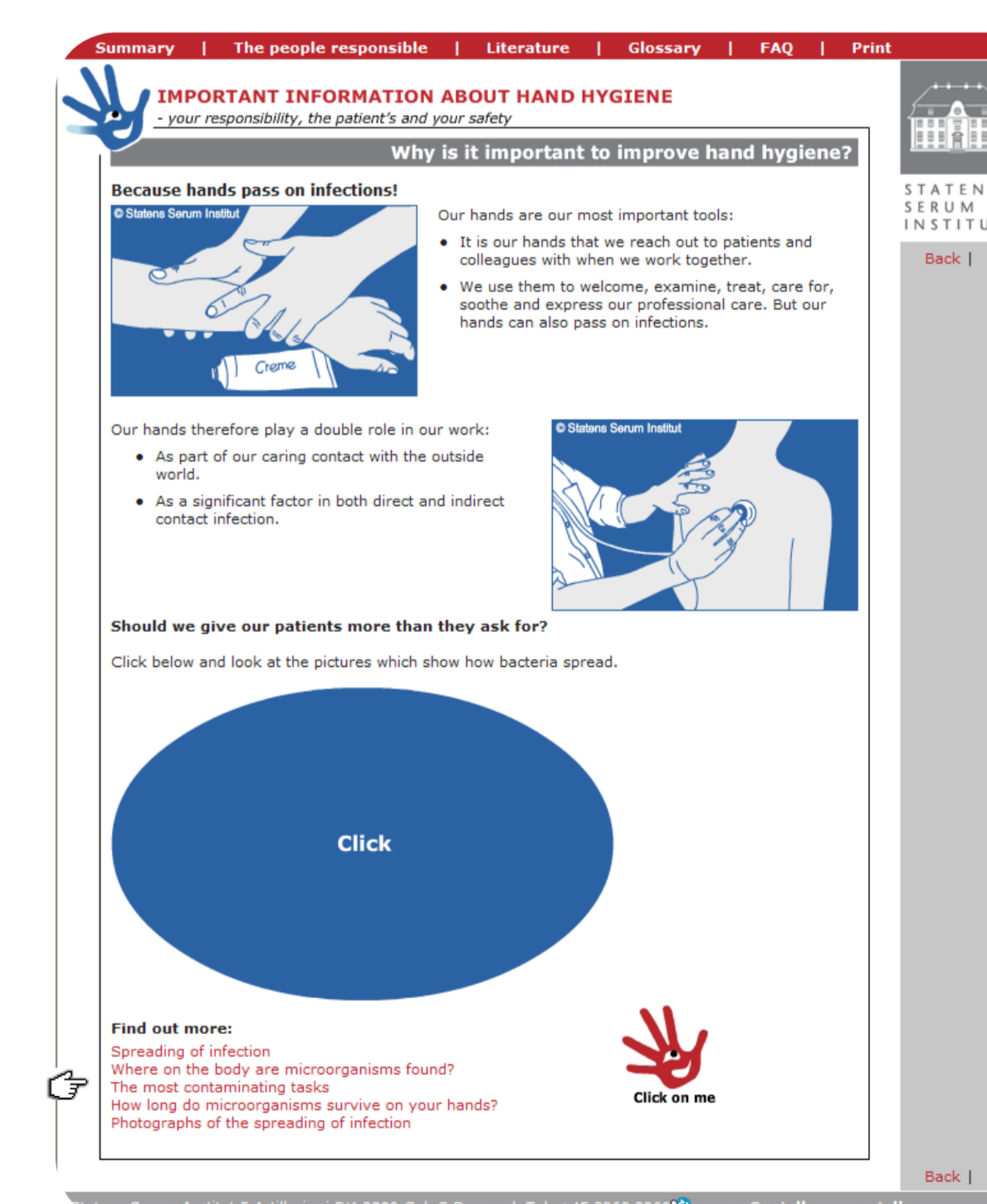
Design

- Explorative design with 3 levels (Need to know, Nice to know, Really nice to know) supports reflections on action
- Should appeal to all learning styles
- Text, pictures/videos, illustrations, games, test, graphs

Technical requirements
Mozilla Firefox or Internet Explorer, Flash plugin, Direct X compatible sound file, 512 MB RAM, Screen resolution 1024 x 768, Dual ISDN 256 kb), Document format doc, pdf, .png, .jpg.



Need to know



Nice to know



Really nice to know



Conclusions

- With its possibilities of supporting different learning styles and create room for reflection the internet is an excellent medium for teaching infection prevention and control.
- It gives room for privacy but can also initiate joint ownership for implementation and evaluation of infection control guidelines.
- With limited economical resources and little time for classic educational sessions – e-Learning is costly to produce but inexpensive to use. A downloadable app could be next step.

