Occupational Hand Dermatitis in HealthCare: Development and Evaluation of an Online Training E-module

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The Issue:

- Occupational hand dermatitis (OHD) has been highlighted as an important health concern for healthcare workers (HCWs).
- The need for training and educational materials specific to HCWs has been previously identified.

Study Objective:

The objective of this study was to develop and evaluate an OHD training e-module for HCWs.

Methods:

- Develop e-module content with expert advisory team: Ontario Occupational Health Nurses Association (OOHNA), Ontario Public Services Employees Union (OPSEU), Public Services Health & Safety Association (PSHSA), Public Health Ontario (PHO).
- Test e-module with HCWs in Ontario (2020), including a 6-month follow-up survey (2020-2021).
- Evaluate training through a paired t-test of knowledge test results (pre- versus post-training and 6-months posttraining), useability of the e-module, and reported changes to skin care workplace practices.

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Results:

Engagement was high, n=254 HCWs participated in the pre- and post-test; 57% also completed the sixmonth follow-up survey.

OHD knowledge scores

- Average knowledge scores significantly improved by 19% between the pre-training test and post-training test.
- Six months after training, average knowledge scores remained significantly higher than pre-training test scores.

Useability scores

 Useability survey results were positive, with over 95% of participants agreeing or strongly agreeing on a five-point Likert scale with positively framed useability statements about the training.

Skin care workplace practice Change

- Most survey respondents intended to modify at least one skin care workplace practice after completing the training.
- Most survey respondents with intent to change their behaviour post-training reported changing their skin care work practices 6 months later.

Conclusions:

- The 10-minute OHD training e-module for HCWs was tested by 254 HCWs and found to be highly useable, to increase OHD knowledge immediately and sustainably, and to change workplace skin care practices.
- The major output from this research is an evaluated 10-minute OHD training e-module for HCWs in French and English, publicly available at no cost: https://creod.on.ca/SkinDiseasePreventionEN/story.html







