

Overview

Thank you for participating in our user study. Before we begin the main tasks, we will go through a brief tutorial to familiarize you with the web application and the tasks you will be performing. The aim of this study is to explore whether different decision-aids can have different impacts on people's decision-making process. We have **two** decision-aids in supporting skin cancer diagnosis, corresponding to two web interfaces (**Recommendation-Driven** and **Hypothesis-Driven**). In this study, you will be asked to complete several tasks using two interfaces of our web application **EvaSkan**. These tasks include:

- Using the information provided by the decision-aid, assign the likelihood for seven skin cancer diagnoses, including: (1) actinic keratoses and intraepithelial carcinomas (AKIECs); (2) basal cell carcinomas (BCCs); (3) melanomas (MELs); (4) melanocytic nevi (NVs); (5) benign keratinocytic lesions (BKLs); (6) dermatofibromas (DFs) and (7) vascular lesions (VASCs). The likelihood for each diagnosis ranges from 0 (least likely) to 100 (most likely). Using each web interface, you will evaluate the skin cancer diagnoses for eight dermatoscopic images. Therefore, there are a total of sixteen dermatoscopic images in this task, corresponding to two web interfaces;
- After finishing the diagnoses for sixteen dermatoscopic images, you will compare and evaluate your preferences between the two interfaces by answering a few questions in a survey;
- Finally, we will conduct an interview to ask you about your experience of using those two web interfaces.

I understand. Let's get started with the first interface!