



# Bridging the Gap Between Community, Academia, and Industry to Understand the Usefulness of an Al-Powered Dermatology Tool Among Everyday Users

Google

Stanford MEDICINE

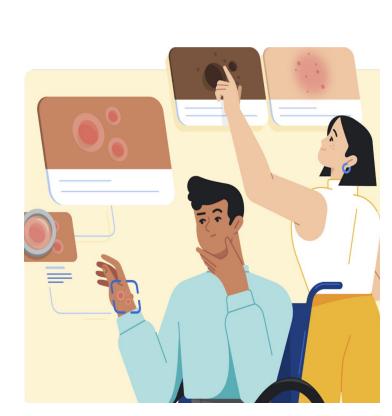
Anna Devon-Sand, MPH, Dawn Heather Siegel, MD, Grace Eunhae Hong, BA, Justin Ko, MD, Mike González, MPA, Margaret Ann Smith, MBA, Mike Schaekermann, PhD, Naama Hammel, MD, Patricia Strachan, MS, Preeti Singh, MS, Rory Sayres, PhD, Steven Lin, MD, Trevor Crowell, BA, Trinh Nguyen, MA, Vijaytha Muralidharan, MD, Yejin Jeong, BA, Yuan Liu, PhD, Yun Liu, PhD

### **BACKGROUND**

 There is an urgent need to engage diverse communities in the development of artificial intelligence (AI)-powered tools for healthcare.



• Stanford, Santa Clara Family Health Plan (SCFHP), and Google partnered to better understand the perceived usability of an Al-driven dermatology tool among community participants in East San Jose, CA.



## **OBJECTIVES**

- To determine the utility of the tool in an ethnically and age-diverse population.
- To obtain in-depth feedback from participants recruited during SCFHP Health Fairs (Oct. 2022 – Feb. 2023).
- To provide participants access to clinicians and identify follow-up services.

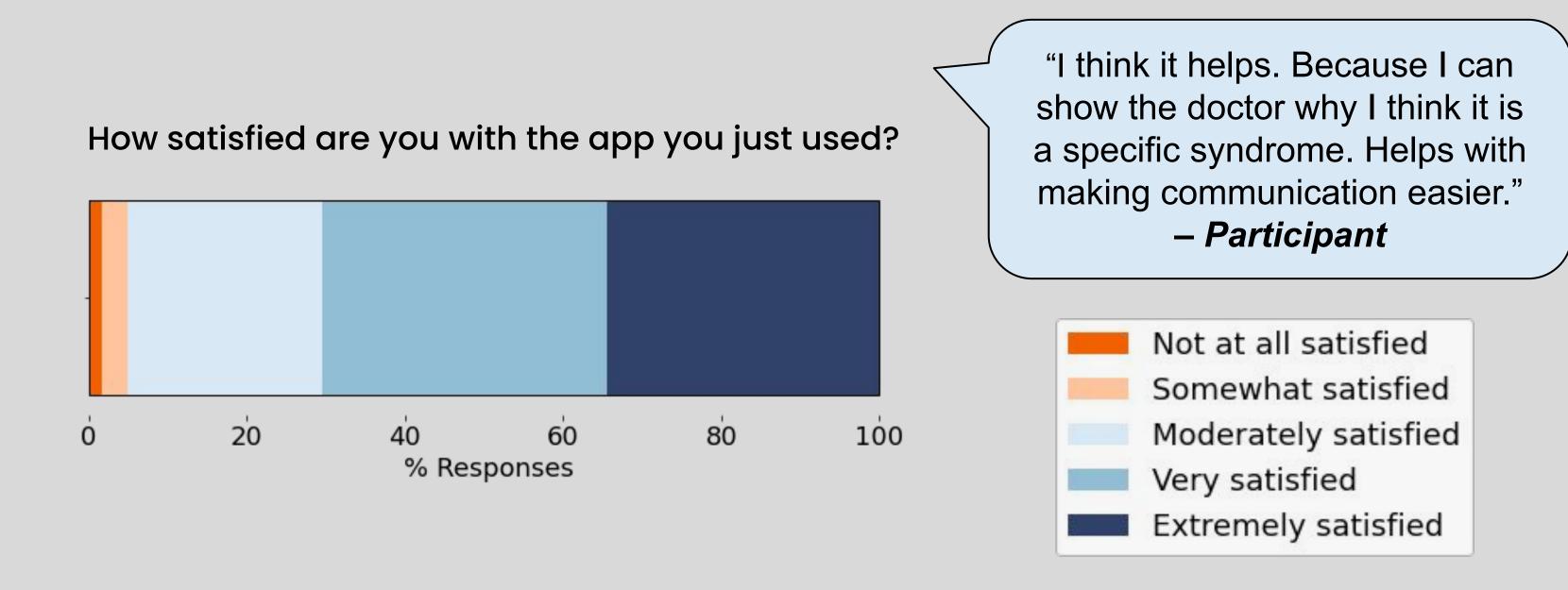
#### **METHODS** Use DermAssist Clinician counseling (1 clinician-facing survey) Survey 4 (clinician Consent perceptions) Secondary objective: qualitative understanding of Survey 3 Survey 1 Survey 2 clinician-patient interaction (end-of-study (pre-usage) (post-usage) post DermAssist reflections) Subjective understanding of how (3 participant-facing surveys) DermAssist affected their level of preparedness Primary objective: quantitative and Secondary objective: pre-post qualitative understanding of how comparisons of participant helpful DermAssist is to users and why perceptions

## RESULTS

Across 3 events, 75 participants used the app.

App Language	Count	%
Spanish	27	37
English	26	35
Vietnamese	16	21
Mandarin	6	8

 Participants expressed moderate satisfaction with the app, with 70% of respondents indicating they were very or extremely satisfied with the experience.

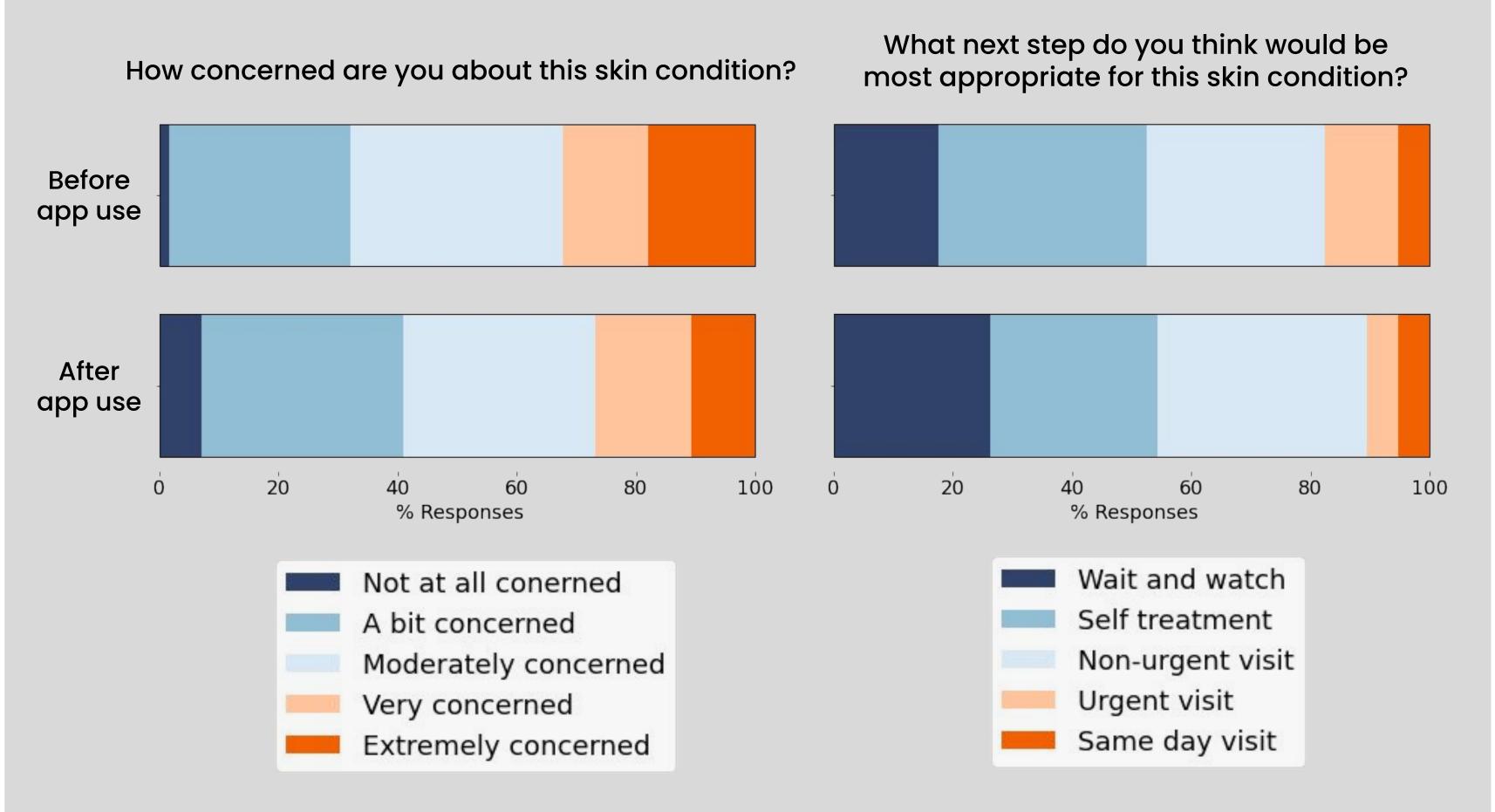


 Clinicians expressed that app results were largely concordant with their own assessments in approximately 80% of evaluated cases.

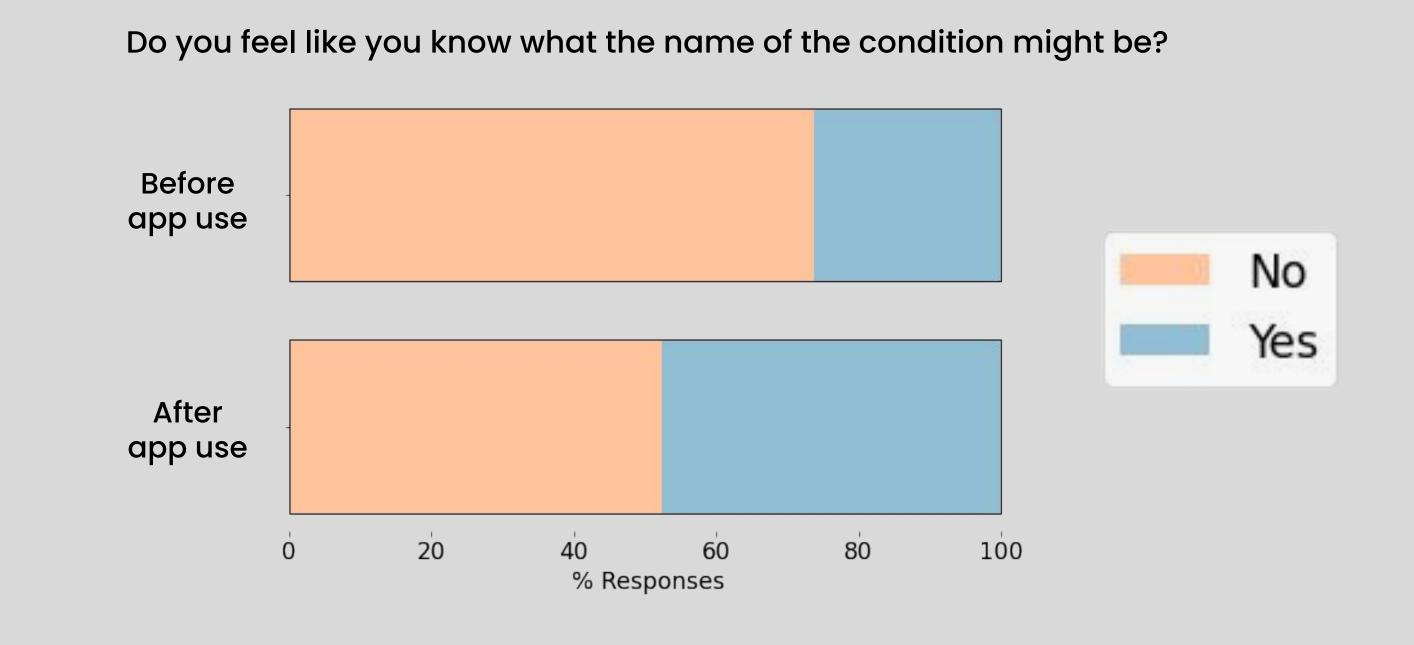
"If the app is readily available, I would recommend that my patients use it. [...] I see this as beneficial in two broad groups: skin lesions and rashes."

— Clinician

 Overall distributions of level of concern and planned next steps did not significantly change after using the app.



• The rate at which participants felt comfortable naming their condition increased significantly (p = 0.03), from 31% before app use to 46% after use.



## CONCLUSIONS

Our findings suggest that the tested AI tool can help users find relevant information about their skin health, enabling further research using targeted search terms. This project provides a model for bridging the gap between community, academia, and industry to co-develop technology that benefits all users.