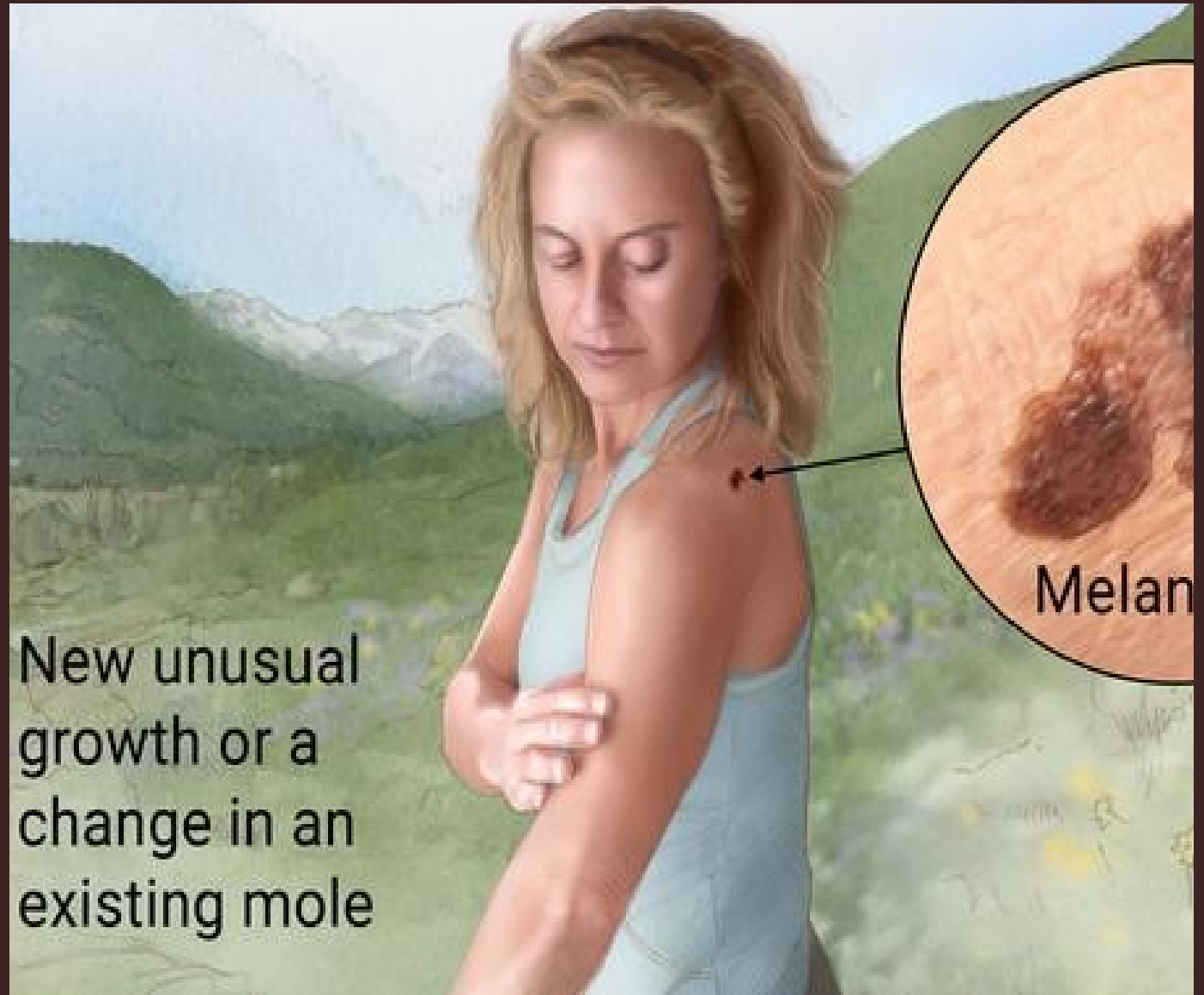

*Randomized Controlled
trial of the MySmartSkin to
promote sun protection
behavior*

By Kevin
Nguyen



Introduction

- * There are about 90000 cases of malignant melanoma cases that must be diagnosed
- This is the 5th most diagnosed cancer where incidents typically increase over time



What is the purpose of this project



- The goal of the researchers is to conduct a randomized controlled trial to a new intervention (MySmartSkin) to determine skincare behavior amongst cancer patients

Project Overview

→ We conduct this project into 2 phases:

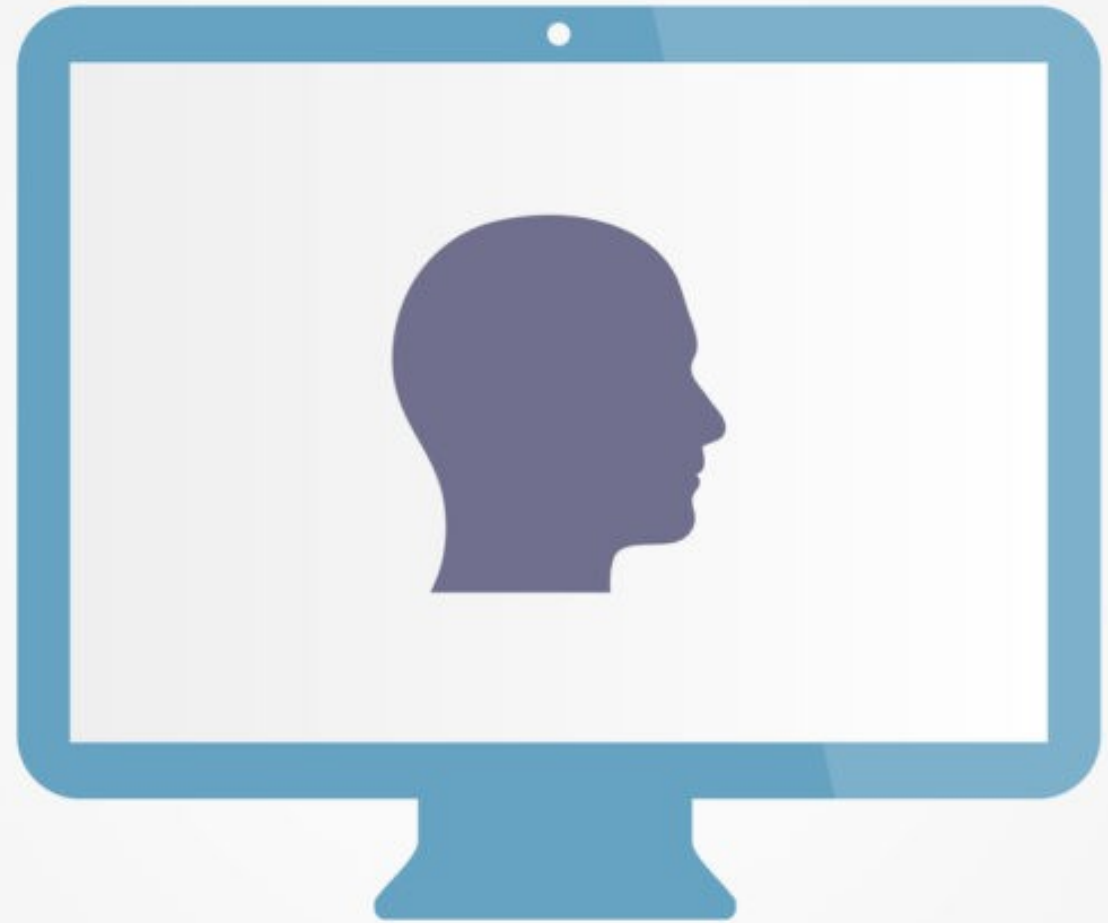
→ *Phase 1 focuses on the development the MySmartSkin intervention

→ * Phase 2 focuses on a randomized controlled trial of the MySmartSkin vs



Phase 1

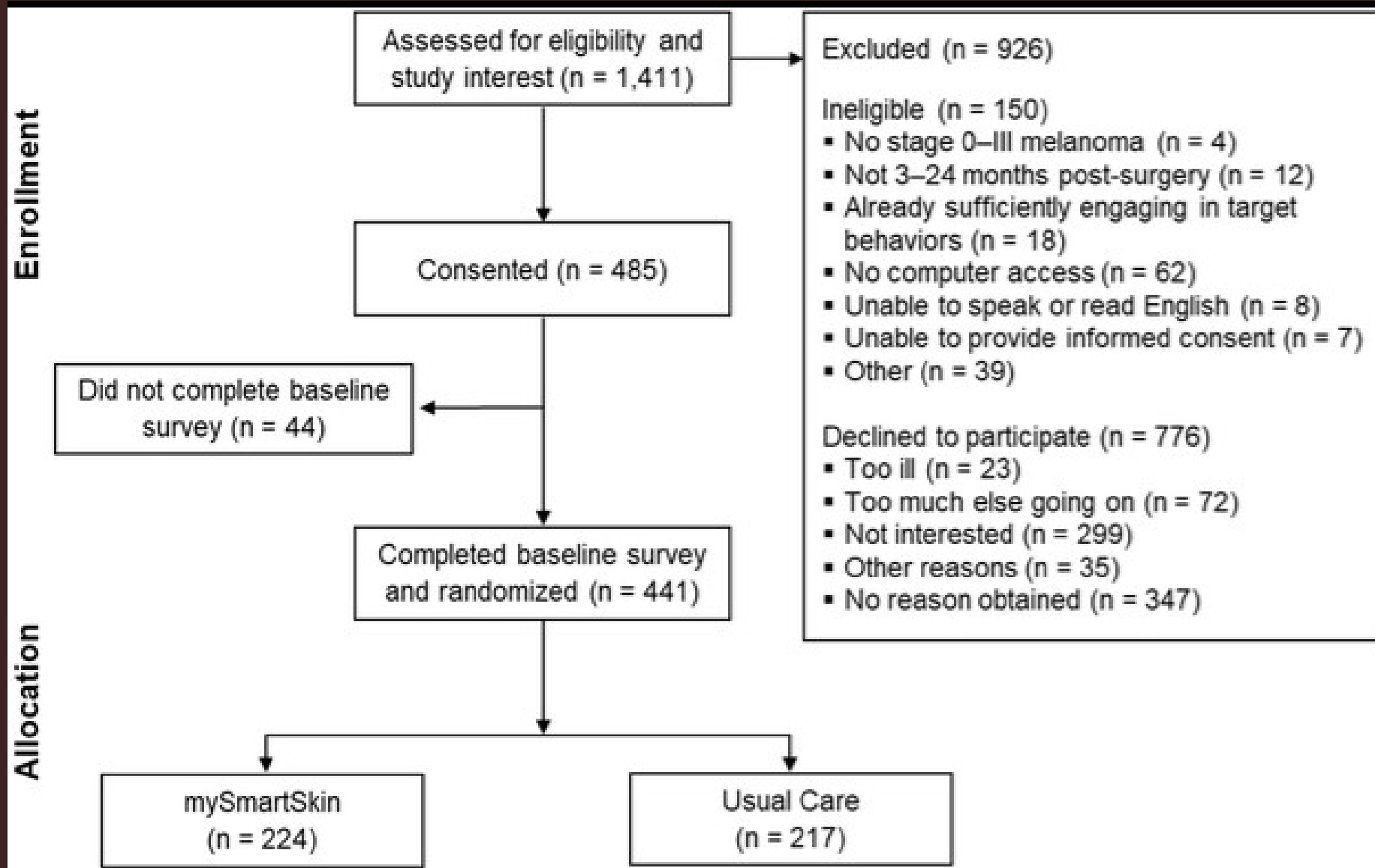
- Development and refinement of the MySmartSkin intervention.
- Basically a web-based online survey that participants fill out regarding their cancer status.



Phase 2

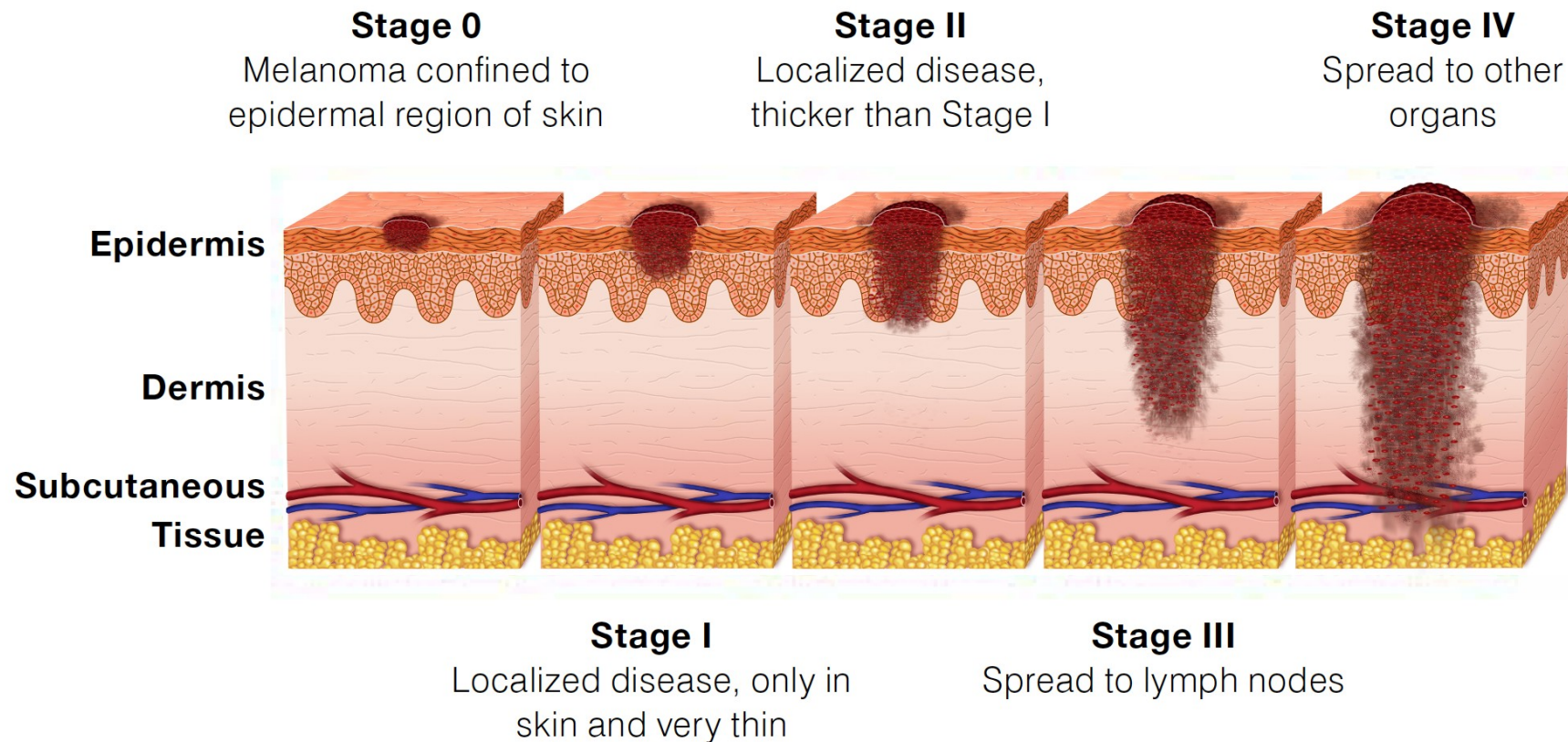
- Goal is to evaluate the results of MySmartSkin vs usual care of skin cancer patients
- Patients were chosen based on characteristics and placed into randomized groups.

To Quickly Summarize the Process of the Trial

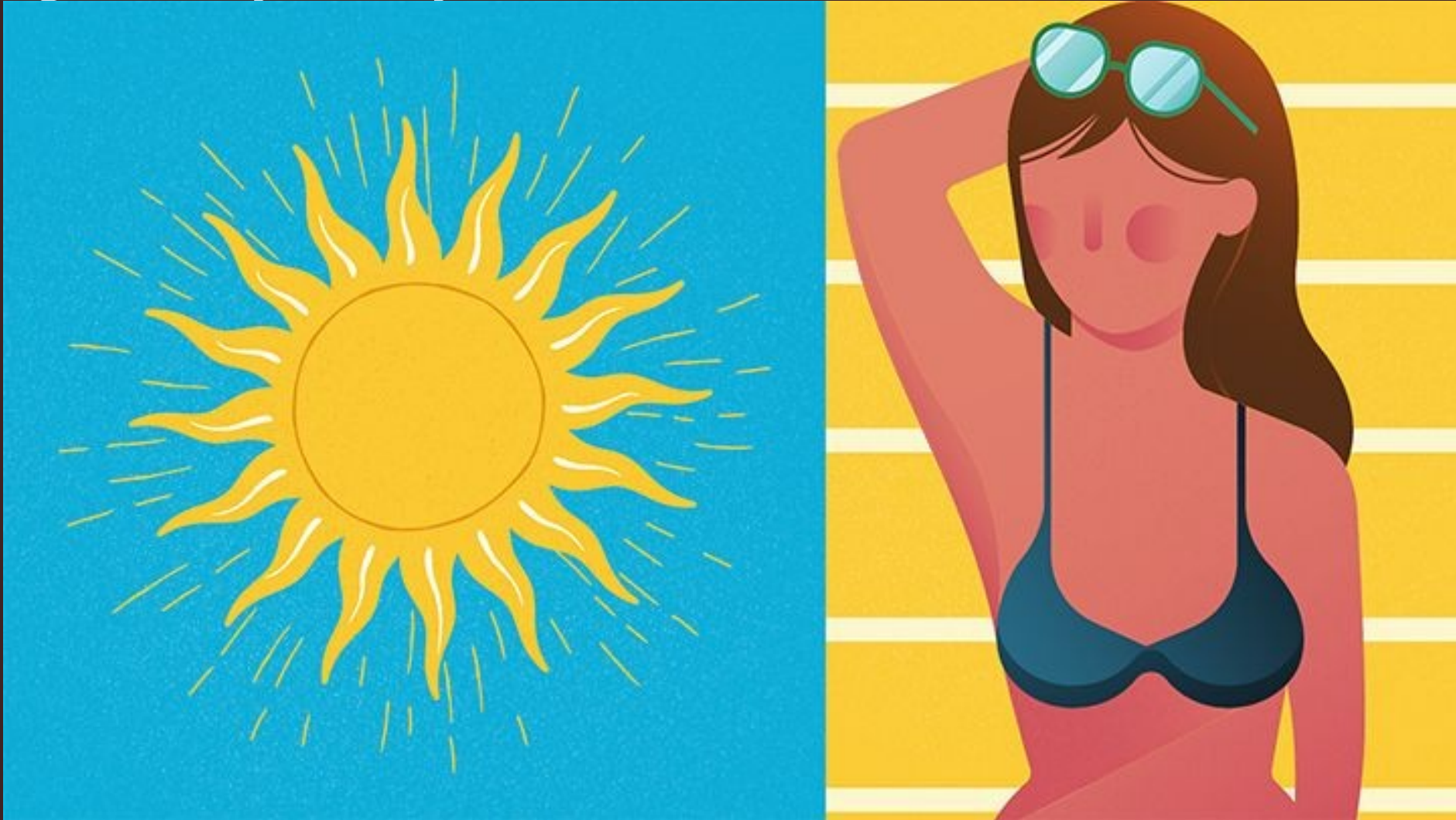


Patients are chosen based on their stage of skin-cancer and are randomized to either the treatment or control groups

FIGURE 2. Stages of Melanoma⁵



Treatment group gets the MySmartSkin whereas control group gets the usual-care treatment on their skin cancer. Results were measured through surveys every 8 weeks, 24 weeks, and 48 weeks later.

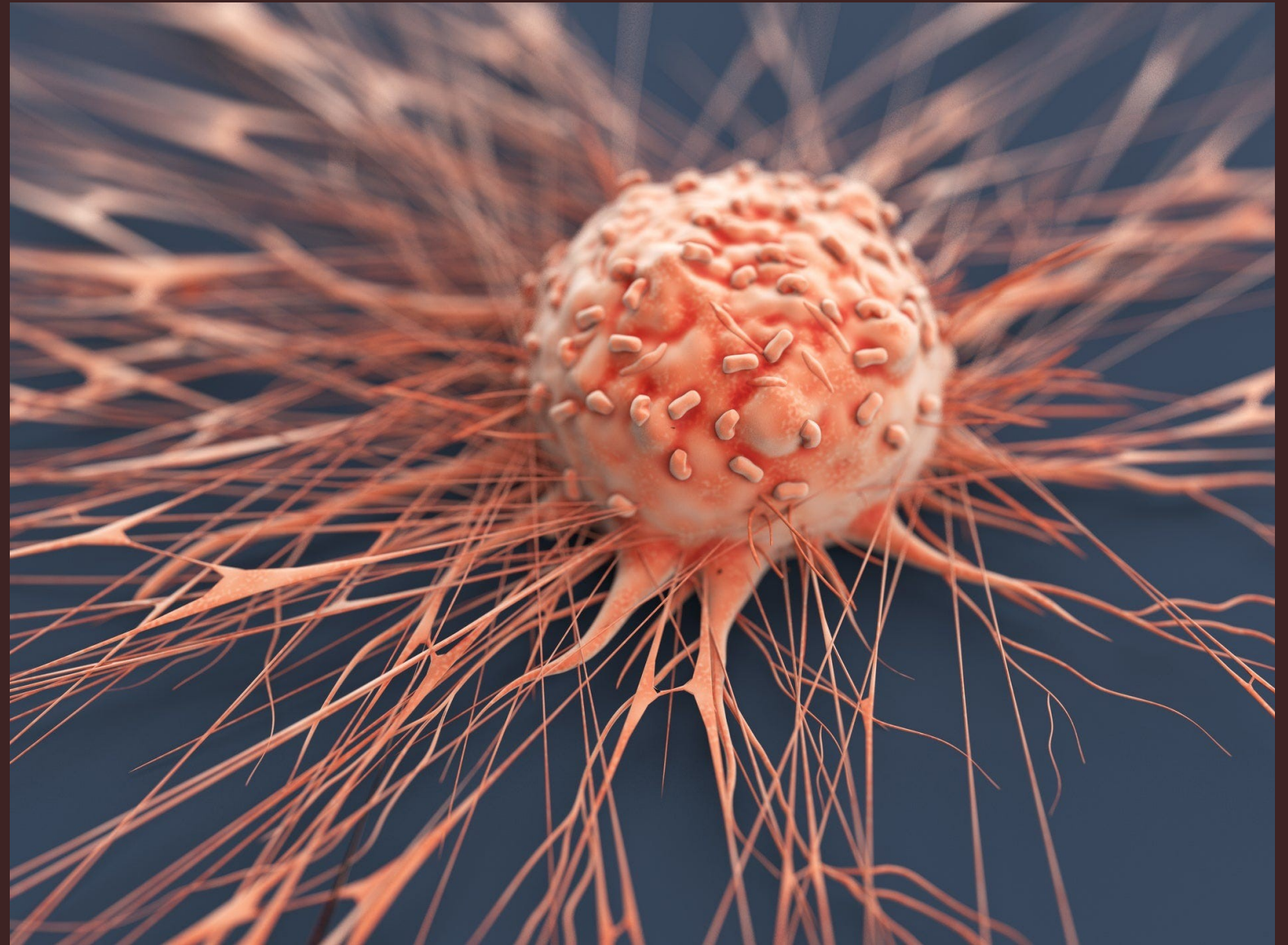


Statistical Methods that are used in this trial

- Randomized Controlled trial
- T-tests
- Chi Squared tests to examine differences in demographic and clinical differences in the individuals

Results

- Of the 441 patients that consented to the trial
 - N1=224 were placed into the treatment group, assigned MySmartSkin
 - N2=217 patients were placed in the control group which is basically standard treatment



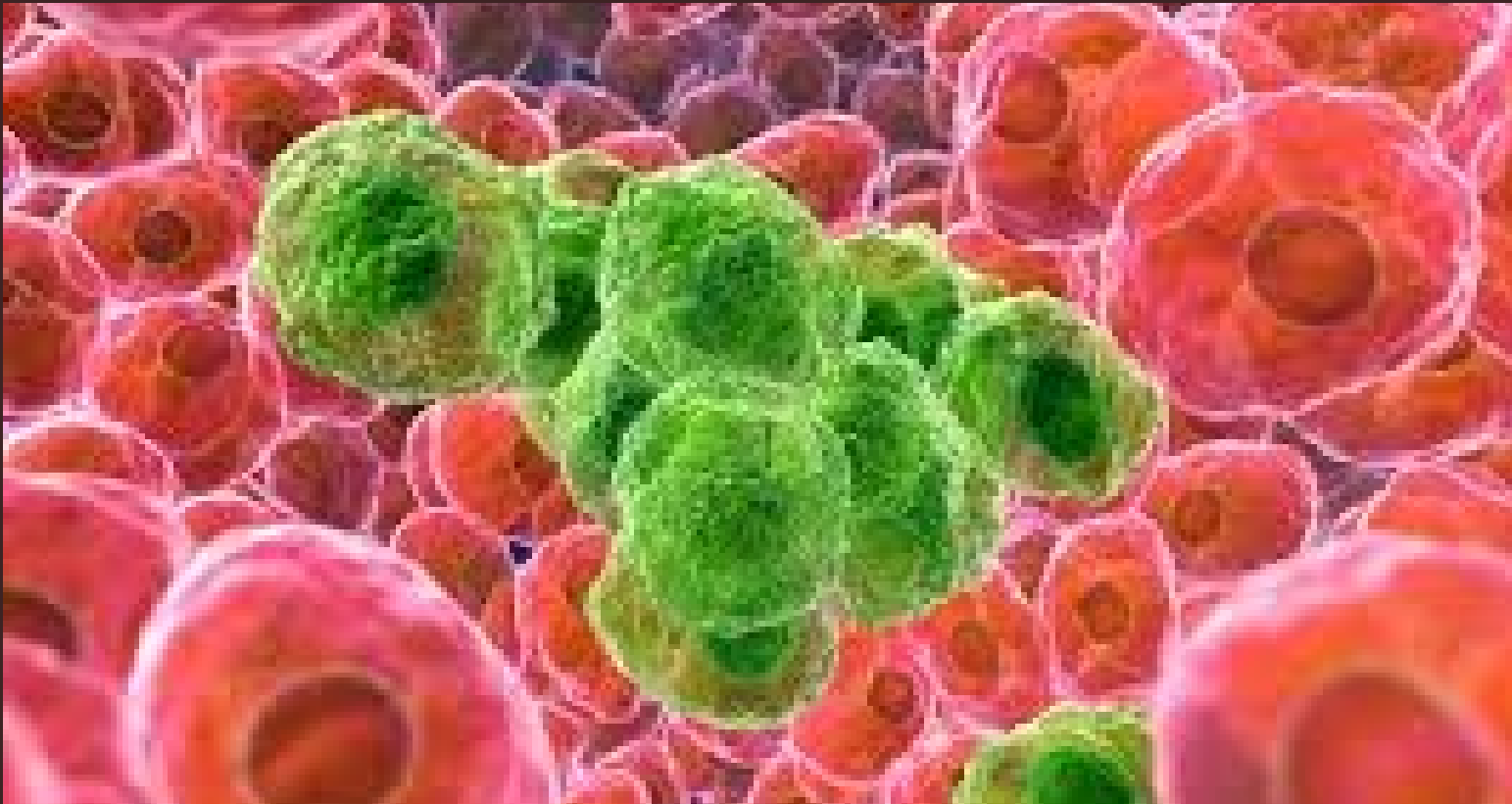
From the results of the intervention (MySmartSkin), we see that certain body parts showed a reduction in tumor size; however, the dif

Table 5

Areas of the body examined during the most recent skin self-examination in the past 2 months.^a

| | Total (N = 287) | mySmartSkin intervention (n = 139) | Usual care (n = 148) |
|-----------------------------------|--------------------|---------------------------------------|-------------------------|
| Body areas examined, % (n) | | | |
| Scalp | 37.9 (108) | 39.6 (55) | 36.3 (53) |
| Face | 98.3 (282) | 99.3 (138) | 97.3 (144) |
| Neck | 89.8 (256) | 90.7 (126) | 89.0 (130) |
| Shoulders | 88.2 (253) | 87.8 (122) | 88.5 (131) |
| Front of arms | 97.9 (280) | 98.6 (137) | 97.3 (143) |
| Back of arms | 79.8 (229) | 78.4 (109) | 81.1 (120) |
| Chest | 93.7 (268) | 94.2 (130) | 93.2 (138) |
| Stomach | 87.7 (250) | 87.7 (121) | 87.8 (129) |
| Upper back | 54.9 (157) | 55.1 (76) | 54.7 (81) |
| Lower back | 48.8 (139) | 50.0 (69) | 47.6 (70) |
| Front of legs | 94.0 (266) | 93.4 (128) | 94.5 (138) |
| Back of legs | 72.6 (204) | 71.3 (97) | 73.8 (107) |
| Bottom of feet | 41.6 (119) | 40.6 (56) | 42.6 (63) |
| Buttocks | 40.4 (116) | 39.6 (55) | 41.2 (61) |
| Genitals | 44.4 (127) | 42.0 (58) | 46.6 (69) |

Conclusion



- There is some reduction in skin-tumor size for the treatment group
- However, the difference is not too significant
- More research as to be done on MySmartSkin to further test and evaluate its effectiveness.

Reference

Manne, Sharon L et al. "Randomized controlled trial of the MySmartSkin web-based intervention to promote skin self-examination and sun protection among individuals diagnosed with melanoma." *Translational behavioral medicine* vol. 11,7 (2021): 1461-1472.
doi:10.1093/tbm/ibaa103

Thank you

The image features the words "Thank you" rendered in a 3D, blocky font. The letters are light yellow with a thick blue outline. They are arranged in two rows: "Thank" on top and "you" below it. Each letter casts a soft red shadow on the light pink background. Scattered around the text are several colorful, five-pointed stars in shades of cyan, yellow, and purple, each also casting a red shadow. The overall style is bright, cheerful, and celebratory.