

# MELANOMA EDUCATION FOR NAIL TECHNICIANS

Amy H Kim BSN, RN, CCRN

DNP Chair: Melanie Percy, PhD, RN, CPNP, FAAN, FAANP DNP Team Member: Rubab Oureshi, MBBS, MD, PhD

#### Introduction

- > Melanoma is one of the fastest growing cancers in the United States
- > When detected early, melanoma is treatable and curable (Cleveland Clinic, 2017)
- > Current evidence-based guidelines do not recommend routine screening for skin cancer in the general population which creates a gap in healthcare (Wernli et al., 2016)

### **Background & Significance**

- > Patients diagnosed at later stages with metastatic melanoma have poorer prognoses with less than a 15 % chance of surviving five years after their diagnosis (Wernli et al., 2016)
- > The United States is ranked third worldwide in cumulative incidences of melanoma after Australia and New Zealand (Shellenberger et al.,
  - > In 2021 there will be about 106,110 new incidences of melanoma and 7180 melanoma related deaths in the United States (American Cancer Society, 2021a)
- > The lifetime risk of melanoma is about 2.6% for whites, 0.1% for Blacks, and 0.6% for Hispanics (American Cancer Society, 2021a)



other skin cancer = melanoma

#### **Current Practices**

- Current practices are focused on primary prevention sun safety education programs in schools to stop the endemic uptrend of skin Cancer (World Health Organization, 2018)
- > Full skin examination is the most common method for skin cancer screening in the primary care setting
  - > However, the USPSTF concluded in 2009, 2016, & 2018 that there is insufficient evidence to support routine full skin examination due to its many limitations (Wernliet al., 2016)

#### References Use QR code for

references



Contact Information hvemee@sn.rutaers.edu

#### Needs Assessment

- > Many studies indicate that early detection is the best approach to reduce melanoma
- mortality (Geller et al., 2015)
  - > < 25% of Americans reported</p> receiving a skin examination by a physician (Shellenberger et al., 2017)
  - > Only 8-12% of annual clinician skin examinations performed in U.S. Maver
- > The Academy of Dermatology and the American Cancer Society encourage individuals to regularly examine their skin and visit a dermatologist when abnormalities are noticed (Fishbach et al., 2020).
  - > half of melanomas go undetected by self-skin examination due to difficult to see areas such as scalp, neck. and back (Black et al., 2017)

#### **Clinical Question**

Will educating nail technicians to identify abnormal skin lesions enable them to identify clients with suspicious skin lesions on their extremities and recommend they visit their healthcare providers for further information?

#### Method

- > **Design** Quasi-experimental, single group. pretest-posttest method
- Northern New Jersev
- > Sample:
  - Men or Women over 18 years old
  - · Currently performing nail services
  - English-speaking

#### > Measures:

- Recruited all potential participants to participate in educational intervention
- Intervention 30-minute educational PowerPoint
- · 3 photo knowledge guestionnaires: Pretest, Posttest, 6-week follow up test for longitudinal effects.
- · Daily client interaction log of number of clients scanned, identified, and recommended.

#### > Analysis:

Descriptive statistical analysis for counts and percentage of clients scanned, identified, and recommended

#### Results

- Questionnaires
- > All 5 subjects presented to group educational session
- $\succ$  Total Participants = 2 nail technicians
- > All participants revealed increased knowledge after intervention

| Participant | Quiz #1 (Pre-test) |       | Quiz #2 (Post-test) |        | Quiz #3 (6-week post-test) |        |
|-------------|--------------------|-------|---------------------|--------|----------------------------|--------|
|             | score              | (%)   | score               | (%)    | score                      | (%)    |
| 1N          | 3                  | (50%) | 6                   | (100%) | 5                          | (83%)  |
| 2N          | 2                  | (33%) | 6                   | (100%) | 6                          | (100%) |

Client Interaction Log



# Discussion

Implications

- **Clinical Practice & Healthcare Policy**
- > DNP project findings → nail technicians can identify suspicious skin lesions during normal nail services.
- > Integration of identification of abnormal skin lesions into cosmetology programs
- > Webinar CEU programs

#### Economic

> More screening opportunities  $\rightarrow$  increase the earlier detection of skin cancers  $\rightarrow$  reduce the economic burden related to advanced melanoma treatment costs.

### Quality & Safety

- > The cosmetologists are not healthcare providers and cannot diagnose their clients.
  - > scan clients' skin and begin a discussion about skin lesions with their clients.
- > Screening and early detection will improve life expectancy since skin cancers are often treatable and curable in the early stages (Cleveland Clinic, 2017).

#### Limitations

- Small sample size Subject's fear of clients' response
  - > COVID 19 pandemic
    - Less staff at nail salon & less clients seen

#### Sustainabilitv

Standardize educational PowerPoint into new employee orientation

## Conclusion

> Nail technicians can aid in early detection of melanoma by identifying abnormal skin lesions that clients may have missed on their self-examinations.

# > Setting - small privately owned nail salon in