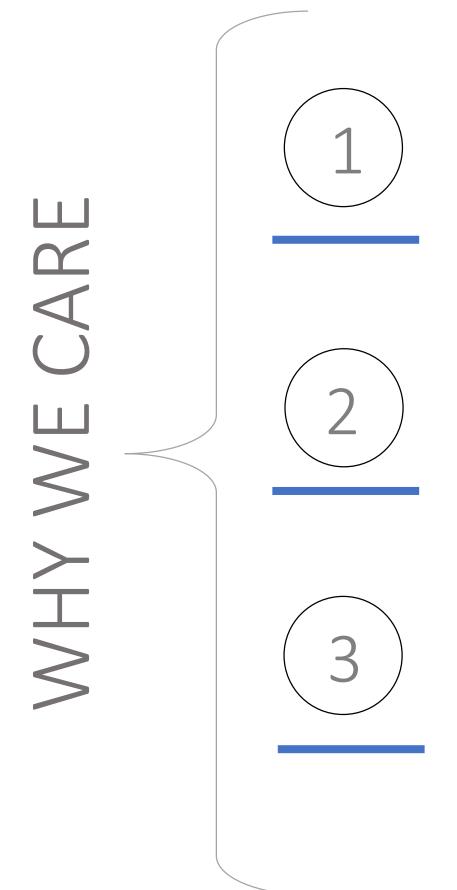




## INTRODUCTION

The purpose of this study is to examine demographic characteristics and cancer risk avoidance perceptions as predictors of having a skin examination by a healthcare provider.



Approximately 20% of the U.S. population will develop skin cancer during their lifetime and annual treatment costs for skin cancer are more than eight billion dollars.

Advancements in skin cancer screening methods have led to a 3% increase in early diagnosis of melanoma over the past decade.

One method of screening for skin cancer is a total body skin examination. Although a total body skin examination is quick, inexpensive, and non-invasive, skin cancer screening rates have remained relatively low.

## RESULTS

- Approximately 46% of the sample reported having a skin examination.
- Females, college graduates, those with a history of skin cancer, people who check their skin for signs of skin cancer, and adults over the age of 45 were more likely to have a skin examination.
- Those least likely to be screened were those not wanting to know their chances of getting cancer.
- 63.8% of participants with a prior history of having cancer had their skin examined by a professional



Balasooriya-Smeekens C, Walter FM, Scott S. The role of emotions in time to presentation for symptoms suggestive of cancer: A systematic literature review of quantitative studies. Psychooncology. 2015;24:1594-1604. doi: 10.1002/pon.3833 Guy GP Jr, Machlin SR, Ekqueme DU, Yabroff KR. Prevalence and costs of skin cancer treatment in the US, 2002-2006 and 2007-2011. Am J Prev Med. 2015;48(2):183-7. doi: 10.1016/j.amepre.2014.08.036 Lakhani NA, Saraiya M, Thompson TD, King SC, Guy Jr GP.. Total body skin examination for skin cancer screening among US adults from 2000 to 2010. Prev Med. 2014;61:75-80.

## CANCER RISK PERCEPTION PREDICTORS FOR TOTAL BODY SKIN EXAMINATIONS: A CROSS-SECTIONAL STUDY USING HINTS 2017 DATA Julie Williams Merten, PhD<sub>1</sub>, Hanadi Hamadi, PhD<sub>2</sub>, Meghann Wheeler<sub>1</sub>

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## METHODS

The Health Information National Trends Survey (HINTS) is a cross-sectional nationally representative survey of the adult population 18 years of age and older.

2017.

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Dependent variable: Whether or not the participant has ever had their skin examined by a health professional.

Independent variables: We focused on 6 primary questions: (1) How confident are you about your ability to take good care of your

- health?

- getting cancer."

Statements	Ν	OR	95% C
I'd rather not know my chance of getting cancer (referent: strongly disagree)	2,447		
Somewhat disagree		0.61**	[0.43, 0.86]
Somewhat agree		0.55**	[0.37, 0.83]
Strongly agree		0.51*	[0.30, 0.86]
Do you ever check your skin for signs of skin cancer? (referent: no)	2,454		
Yes		8.51***	[5.46, 13.2
How confident are you about your ability to take good care of your health? (referent: not confident at all)	2,446		
A little confident		0.54	[0.05, 6.31
Somewhat confident		0.29	[0.08, 1.04
Very confident		0.38	[0.11, 1.31
Completely confident		0.54	[0.15, 1.93
How likely are you to get cancer in your life? (referent: very unlikely)	2,425		
Unlikely		0.83	[0.36, 1.95
Neither		1.07	[0.55, 2.08
Likely		1.08	[0.49, 2.40
Very likely		1.29	[0.50, 3.33
How worried are you about cancer? (referent: not at all)	2,449		
Slightly		1.34	[0.88, 2.03
Somewhat		1.53	[0.90, 2.59
Moderately		1.92*	[1.03, 3.59
Extremely		1.58	[0.53, 4.69
There are so many recommendations about preventing cancer, it's hard to know which ones to follow? (referent: strongly agree)	2,432		
Somewhat agree		1.21	[0.68, 2.17
Somewhat disagree		1.19	[0.72, 1.97
Strongly disagree		0.90	[0.51, 1.60

\* Adjusted for age, race, income, education, health insurance, and sex, place of birth, cancer survivor, family cancer history.

We used the HINTS 5 (Cycle 1) data, collected from January 25, 2017 through May 5,

(2) How likely are you to get cancer in your lifetime? How worried are you about getting cancer? Agreement with the statement: "I'd rather now know my chances of



Agreement with the statement: "So many recommendations about preventing cancer makes it hard to know which one to follow." (6) Do you ever check your skin for signs of skin cancer?

DISCUSSI	ΟΝ				
This study revealed overall inadequate levels of a healthcare providers to detect skin cancer.					
1		Similar to other st cervical cancer sci be examined for s were those not wa cancer.			
2		People who check eight times more compared to thos			
3		The demographic participation in th studies analyzing the need for impre- least likely to have			

Robinson JK. Sun exposure, sun protection, and vitamin D. JAMA. 2005;294:1541-3. doi: 10.1001/jama.294.12.1541 Stern RS. Prevalence of a history of skin cancer in 2007: Results of an incidence-based model. Arch Dermatol. 2010 Mar;146(3):279-82. doi: 10.1001/archdermatol.2010.4 Vrinten C, McGregor LM, Heinrich M, von Wagner C, Waller J, Wardle J, et al. What do people fear about cancer? A systematic review and meta-synthesis of cancer fears in the general population. Psychooncology. 2017;26:1070-1079. doi: 10.1002/pon.4287 Welch HG, Woloshin S, Schwartz LM. Sin biopsy rates and incidence of melanoma: Population based ecological study. BMJ. 2005;33:481 https://doi.org/10.1136/bmj.38516.649537.E0

adults having routine skin examinations by

tudies analyzing colorectal, breast, and reening behaviors, the people least likely to signs of skin cancer by a healthcare provider anting to know their chances of getting

ked their skin for signs of skin cancer were likely to have a skin exam by a provider se who do not check their skin.

predictors of skin cancer screening nis study were similar to other different cancer types, highlighting roved patient education for those e a skin examination.