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Intended care seeking for ovarian cancer symptoms among U.S. women

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ARTICLE INFO

ABSTRACT

Available online 2 February 2016 Keywords: Ovarian cancer Awareness Symptoms Care seeking Early detection of cancer To investigate U.S. women's intended care seeking for symptoms associated with ovarian cancer, data from the 2012 HealthStyles Fall survey of U.S. adults were examined. Analyses were limited to women with no history of gynecologic cancer (N = 1726). Logistic regression models for intended care seeking within 2 weeks of symptom onset were developed. A minority of women recognized that unexplained pelvic or abdominal pain (29.9%), unexplained bloating (18.1%), and feeling full after eating a small amount of food (10.1%) can indicate ovarian cancer, and 31.1% mistakenly believed that the Papanicolaou (Pap) test screens for the disease. In the multivariate regression models, the most consistent, significant predictors (p < 0.01) of intended care seeking within 2 weeks of symptom onset were age (older women were more likely to seek care) and awareness that symptoms could signal ovarian cancer. Care seeking in response to ovarian cancer of symptoms. Raising awareness of ovarian cancer symptoms may promote early detection. However, educational efforts should emphasize that symptoms associated with ovarian cancer may also result from benign conditions.

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Introduction

Ovarian cancer causes more deaths in the United States than any other cancer of the female reproductive system. Annually, more than 20,000 U.S. women are diagnosed with ovarian cancer and more than 14,000 die from the disease (U.S. Cancer Statistics Working Group, 2014). Treatment is most effective when ovarian cancer is found at an early stage. However, no population-based screening test is recommended for ovarian cancer detection, and most ovarian cancers are diagnosed at a late stage (Su et al., 2013).

While ovarian cancer has been widely referred to as a "silent killer," symptoms commonly associated with the disease have been identified (Goff, 2012). Unfortunately, awareness of ovarian cancer symptoms among U.S. women is low (Trivers et al., 2011; Cooper et al., 2013; Lockwood-Rayermann et al., 2009). In addition, the misconception that the Papanicolaou (Pap) test detects ovarian cancer is common (Lockwood-Rayermann et al., 2009; Hawkins et al., 2011; Cooper et al., 2011), and has been found to engender a false sense of security in some women (Cooper et al., 2011). Given the absence of a population-based screening test for ovarian cancer, early detection can depend on women reporting symptoms to health care providers (Su

et al., 2013; Goff et al., 2000). The present study investigated U.S. women's intended care seeking for symptoms associated with ovarian cancer.

Methods

The HealthStyles Fall survey is an annual survey conducted by Porter Novelli (Washington, D.C.) that explores the health behaviors and attitudes of U.S. adults. The 2012 HealthStyles Fall survey was administered online from September 21–October 5. The survey items analyzed here were licensed by the Centers for Disease Control and Prevention's *Inside Knowledge: Get the Facts about Gynecologic Cancer* campaign (Centers for Disease Control and Prevention, 2015), to inform the campaign's initiatives to increase women's understanding of gynecologic cancer.

Participants

Participants in the 2012 HealthStyles Fall survey were recruited from the KnowledgePanel®, a 50,000 member online research panel that is representative of the U.S. population (GFK Knowledge Networks, 2015). Panel members were randomly recruited through probabilitybased sampling, using both random-digit dial and address-based sampling methods. If needed, panel members were provided with a laptop computer and Internet access so they could take part in surveys.

The 2012 HealthStyles Fall survey was sent to a random sample of 4371 panel members aged 18 years or older who responded to an

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earlier linked survey (HealthStyles Spring survey). A total of 3503 participants (1733 men and 1770 women) took part in the survey, for a completion rate of 80.1%. However, the analyses reported here were limited to women with no history of gynecologic cancer (N = 1726).

The 2012 HealthStyles Fall survey was administered by Porter Novelli and complied with the ICC/ESOMAR International Code for ethical research (Esomar, 2008). To protect participant confidentiality, no individual identifiers were included in the dataset received by investigators. CDC Institutional Review Board (IRB) approval was not required for this project because CDC licensed the 2012 HealthStyles data analyzed from Porter Novelli and was not engaged in human subjects research (secondary data analysis).

Measures

Ovarian cancer symptom awareness was assessed by asking respondents, "Which of the following could be a warning sign of ovarian cancer?" The response options included three symptoms that are commonly associated with ovarian cancer (Goff, 2012): "unexplained pelvic or abdominal pain," "unexplained bloating," and "feeling full after eating a small amount of food," as well as eight other symptoms (e.g. "vaginal itching that does not get better with over-the-counter treatments/creams"), "none of these," and "not sure." Multiple responses to this item were accepted unless "none of these" or "not sure" was selected.

Timing of intended care seeking in response to symptoms was assessed by asking respondents, "If you began experiencing any of the following and it was not normal for you, when would you contact a doctor or other health professional?" Respondents were asked to provide a separate response for each of the symptoms included in the ovarian cancer symptom awareness item; five response options were provided: "within a few days," "within 1–2 weeks," "within several weeks," "after several months," and "I would probably not call or see a doctor."

Analyses

Investigators calculated weighted proportions (matched to 2012 U.S. estimates on gender, age, household income, race/ethnicity, educational attainment, and geographic region) for demographic characteristics, ovarian cancer symptom awareness, and timing of intended care seeking in response to symptoms. Pearson chi-square tests were used to compare timing of intended care seeking for each of the three ovarian cancer symptoms studied by participant characteristics and awareness that each symptom could signal ovarian cancer. In this analysis, the response categories for timing of intended care seeking were collapsed into "≤2 weeks" (which included "within a few days" and "within 1– 2 weeks"), ">2 weeks" (which included "within several weeks," "after several months," and "I would probably not call or see a doctor"). The covariates found to be significant (p < 0.05) in the bivariate analyses were included in adjusted, forward-stepwise logistic regression models to predict intended care seeking within 2 weeks of symptom onset for each of the three symptoms analyzed.

Results

A minority of women (10.1%–29.9%) recognized the symptoms that could signal ovarian cancer, and 31.1% mistakenly believed that the Pap test screens for ovarian cancer (Table 1).

Intended care seeking for symptoms within 2 weeks of their onset ranged from 28.2% (feeling full after eating a small amount of food) to 65.7% (unexplained pelvic or abdominal pain). No intended care seeking for symptoms ranged from 8.4% (unexplained pelvic or abdominal pain) to 32.8% (feeling full after eating a small amount of food).

Covariates significantly associated with intended care seeking within 2 weeks of symptom onset in the bivariate analyses (Supplemental

Table 1

Participant characteristics, ovarian cancer symptom awareness, awareness that Papanicolaou (Pap) test does not screen for ovarian cancer, and timing of intended care seeking for symptoms, U.S. Women, 2012 HealthStyles Fall Survey (N = 1726).

		Unweighted n ^a	Weighted % ^b
Participant characteristics			
Age (vears)	18–29 vears	277	18.6
8. (3)	30–44 years	375	27.3
	45–59 years	524	26.9
	≥60 years	550	27.2
Race/ethnicity	Caucasian	1272	65.0
	African-American	188	13.0
	Hispanic	172	15.2
	Other	94	6.9
Educational attainment	<high school<="" td=""><td>91</td><td>10.7</td></high>	91	10.7
	High school	496	33.7
	Some college	545	28.8
	≥Bachelor degree	594	26.8
Geographic region	Northeast	336	18.8
	Midwest	434	22.2
	West	369	22.1
	South	587	36.9
Health insurance coverage	Insured	1450	81.2
	Uninsured	266	18.8
	ominibured	200	1010
Awareness that Pap does not screen for ovarian cancer			
Aware		1204	68.9
Unaware		506	31.1
According to the second second signal according and second			
Awareness that symptom could	i signal ovarian cancer	F7F	20.0
Unexplained pelvic or	Aware	5/5	29.9
abdominal pain	Unaware	1105	/0.1
Unexplained bloating	Aware	303	18.1
	Unaware	1317	81.9
Feeling full after eating a	Aware	183	10.1
small amount of food	Unaware	1497	89.9
Timing of intended care seeking for symptoms			
Unexplained pelvic or abdominal pain	Within a few days	558	32.9
	Within 1–2 weeks	602	32.8
ubuomma pam	Within several weeks	304	192
	After several months	100	67
	I would probably not call	115	84
	or see a doctor	110	011
Unexplained bloating	Within a few days	189	10.8
onenplanieu bloating	Within 1–2 weeks	462	26.9
	Within several weeks	456	25.0
	After several months	183	12.0
	I would probably not call	380	25.4
	or see a doctor	500	23.4
Feeling full after eating a	Within a few days	120	7.0
small amount of food	Within 1_2 weeks	382	21.2
small amount of food	Within several weeks	202 441	21.2
	After several months	197	13.7
	I would probably not call	527	13.2
	or see a doctor	100	J2.0
	or see a doctor		

^a Analyses were limited to women who had never been diagnosed with gynecologic cancer. When variable responses do not sum to *N*, responses are missing unless otherwise noted.

^b Data were weighted to match 2012 U.S. Census estimates for age, household income, race/ethnicity, educational attainment, and geographic region.

Table) were included in the adjusted logistic regression models: age, race/ethnicity, educational attainment, geographic region, health insurance coverage, and awareness that symptom can signal ovarian cancer. Across the three symptoms modeled, intended care seeking within 2 weeks of symptom onset was most likely among women ≥ 60 years old and those who were aware that the symptom analyzed could signal ovarian cancer (Table 2). Intended care seeking for unexplained bloating and feeling full after eating a small amount within 2 weeks of onset was more likely among African-American and Hispanic women than Caucasian women and least likely among women living in the Southern U.S. states. Finally, insured women were more than twice as likely as uninsured women to report intended care seeking for unexplained pelvic or abdominal pain within 2 weeks of onset.

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