Health seeking behavioral analysis associated with breast cancer screening among Asian American women

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Objective: The purpose of this community-based study was to apply a Sociocultural Health Behavior Model to determine the association of factors proposed in the model with breast cancer screening behaviors among Asian American women.

Methods: A cross-sectional design included a sample of 682 Chinese, Korean, and Vietnamese women aged 40 years and older. The frequency distribution analysis and Chi-square analysis were used for the initial screening of the following variables: sociodemographic, cultural, enabling, environmental, and social support. Univariate and multivariate analyses were conducted on factors for breast cancer screening using multinomial logistic regression analysis.

Results: Correlates to positive breast cancer screening included demographics (ethnicity), cultural factors (living in the United States for 15 years or more, speaking English well), enabling factors (having a regular physician to visit, health insurance covering the screening), and family/social support factors (those who had a family/friend receiving a mammogram).

Conclusions: The results of this study suggest that breast cancer screening programs will be more effective if they include the cultural and health beliefs, enabling, and social support factors associated with breast cancer screening. The use of community organizations may play a role in helping to increase breast cancer screening rates among Asian American women.

Keywords: breast cancer screening, Vietnamese, Korean, Chinese, breast cancer, Asian American

Introduction

Cancer is the number one cause of death among Asian American women¹ and Asian American women have the lowest cancer screening rates of all ethnic groups in the United States.² The American Cancer Society³ reports a breast cancer incidence rate of 81.6/100,000 and a mortality rate of 12.5% among Asian American women. Breast cancer is the leading cancer among Chinese, Korean, Vietnamese, and Cambodian American women.⁴ Epidemiological studies have indicated an increase in breast cancer risk among Asian women and their descendants following immigration to the United States.^{5,6}

Early detection plays an essential role in reducing breast cancer morbidity and mortality. It is recommended by the American Cancer Society, the Michigan Cancer Consortium, and the American Medical Association that women aged 40 years and older have mammograms annually. Despite the effectiveness of early detection in reducing breast cancer mortality, rates of these preventive health practices remain low among many minority women.⁷ Mammogram screening rates are lower among Asian American women; only 57% had a mammogram within the previous 2 years

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and only 48% within the previous 12 months, compared with 72% and 57% (respectively) among white women in the United States.⁸ Furthermore, Asian and Pacific Island women, for example, have been diagnosed at a much later stage of breast cancer, largely due to lack of timely screening and early detection.^{9–11}

There are differences in cancer screening among Asian American subgroups.^{2,12–14} Ma et al¹³ reported that never-screened rates for mammography ranged from 20% in Chinese, to 28% in Vietnamese, 30% in Korean, and 79% in Cambodian women residing in the mid-Atlantic area; and the 12-month screening rates were 58%, 38%, 42%, and 11%, respectively. Studies focusing on individual Asian ethnic groups showed some variations. Among Chinese American women, the rate of having ever undergone mammogram screening ranged from 71.1%⁷ to 74.0%¹⁵, and 43% of women reported screening in the last year.⁷ Among Korean American women, screening rates have ranged from 55% to 78% among those aged ≥ 50 years,¹⁶ with 38.6% of these women having had one within the previous year.¹⁷ Among southeast Asian women, about 70% of women aged 40 years and older ever had a mammogram, with 56% having had one in the last 2 years.¹⁸ Among Vietnamese women, 45% received a mammogram and 15% within the last year.¹⁹ Among Vietnamese women aged 40 years and older, 26% had a mammogram.²⁰

Various reasons have been cited for underutilization of screening, including language difficulty, cultural and acculturation factors, economic barriers, and a lack of health insurance coverage.^{7,8,13,14,21,22} Women who had health insurance and a usual source of care, and who had seen a physician in the past year, were more likely to have been screened.¹⁴

Conceptual model

Ma²³ developed a Sociocultural Health Behavior Model by incorporating the major constructs of the health belief model,²⁴ social cognitive theory,^{25,26} the behavioral model, and access to medical care.²⁷ The Sociocultural Health Behavior Model acknowledges that the complexity and interaction of multiple factors play a major role in many patients' health-seeking behaviors. It explains health-seeking behavior by describing the relationships among individual, interpersonal, and environmental factors. This model describes relationships between individual health behavior and interaction with the environment. The interactions and multiple levels of influence of individual, interpersonal, and environmental factors underlying health behavior are emphasized.

Since screening behavior is influenced by multiple factors, there is a need to identify the associations among these factors. The role of cultural factors is seldom included in a health behavior analysis. In addition to common theoretical components, this model includes cultural factors as a primary component. The model incorporates the interdependence of predisposing, enabling, need, family/social support, environmental health system, and cultural factors, all of which contribute to a particular health behavior or outcome. A number of variables can be included under cultural factors; these include notions of fatalism, birth in the United States, years lived in the United States, English fluency, use of native language at home, native food dietary habits, use of media sources in the native language, and attendance at native-themed social events.

The purpose of this community-based study was to apply the Sociocultural Health Behavior Model to determine the association of factors proposed in the model with breast cancer screening behaviors among Asian American women.

Methods

Sample

The current study was part of a larger screening study of Chinese, Korean, Vietnamese, and Cambodian Asian Americans. To obtain a representative sample, a current listing of 111 Asian American community organizations in the greater Philadelphia area, New Jersey, and New York City was identified by the Asian Community Health Coalition and Center for Asian Health, Temple University (Philadelphia, PA). The 111 community organizations were located in geographic areas which maximized the coverage of Asian Americans across ethnic groups, age, and socioeconomic status. Asian American community organizations ($N = 52$) were randomly selected as clusters from the list of 111 organizations. A proportional sampling procedure was adopted based on the size of the four ethnic groups, with the size of the Chinese group twice the size of the Korean and Vietnamese groups.²⁸ The 2098 participants were recruited from the 52 Asian American community organizations. Among those recruited, 2011 participants completed the survey (a response rate of 95.9%).

For the purpose of this paper, only Asian American women (Chinese, Korean, and Vietnamese), aged 40 years or older were retained for the analysis; the final sample comprised 724 participants. Of these, 440 (60.77%) were Chinese, 139 (19.20%) were Koreans, and 145 (20.03%) were Vietnamese.

Design and data collection procedures

A cross-sectional research design was used in the study because of the common advantages provided by this method, such as collecting information from numerous, diversified participants in a short time. Data collection and administration training were provided to all study administrators as well as to on-site bilingual translators. The research team at the Center for Asian Health, Temple University, in conjunction with organization leaders, administered the study to Asian American participants on site in the community organizations' facilities. The study was administered by using face-to-face instruction methods. Participants had the choice of responding to the questions in English or in their native language (Chinese, Korean, or Vietnamese).

Measures

A multi-lingual, 95-item questionnaire was developed, back-translated, and pilot-tested for reliability, validity, and cultural appropriateness. It comprised of six sections: (1) demographics (age, gender, foreign born, ethnicity, marital status, education level, employment status, income, and health insurance) and acculturation (English language competency and native foods); (2) mammogram screening behavior for breast cancer; (3) perceived barriers; (4) health perceptions, based on the health belief model (susceptibility, severity, benefits, barriers, cues to action, and self-efficacy); (5) access to healthcare (physician visits and language-concordant physician); and (6) satisfaction with access to health care. The detailed information about the data collection and measures were described elsewhere.¹³

The original study questionnaire items were examined and selected for this study through initial screening by applying frequency distribution analysis and Chi-square analysis. The selection criteria were based on the reasonable distribution of the independent variables that met the psychometric requirements. After the preliminary screening and analysis, the following variables were retained in the analysis.

The cultural factor

Years lived in the United States, English fluency, belief that cancer is curable, self-efficacy to prevent getting cancer, fear of getting a bad test result, embarrassment/shame of being diagnosed with breast cancer, use of the Internet for information (see Table 2).

The enabling factor

Has a regular physician to visit, importance of being screened for cancers, insurance covers breast cancer screenings, communication problems, transportation problems

(to the facility), lack of knowledge, and not knowing where to get services (see Table 3).

The environmental factor

Arrangements for making appointments for medical care, length of time waiting to see doctor at the office, length of time waited between making an appointment for care and the day of visit, and rating of the care of the medical group (see Table 4).

The family and social support factor

Discussion of breast cancer with significant others or family members, family/friends had a mammogram (see Table 5).

The outcome variable

The status of mammogram screening was classified into three groups: never-screened, non-compliance (not screened during the past 12 months), and compliance (screened during the past 12 months).

Data analysis

Statistical analyses included descriptive statistics (frequencies, percentages, and Chi-square statistic), and multinomial logistic regression. The multinomial logit model was used to model the log odds of outcome variable which had three levels; thus two comparisons were made between never-screened versus compliance, and between non-compliance versus compliance. Each domain (ie, cultural factors, enabling factor, environmental factor, and family and social support factor) was analyzed separately. The multinomial logit analysis was first conducted with each independent variable univariately, and then the significant variables from the univariate model were analyzed with a multivariate multinomial model. For each multinomial model, whether it was univariate or multivariate, the ethnicity variable was adjusted. All statistical analyses were conducted using statistical analysis (SAS® software, v 9.1.3, SAS Institute Inc, Cary, NC).

Results

Of 682 participants who reported their breast cancer screening status, 24.05% (n = 164) reported never-screened, 25.51% (n = 174) reported non-compliance, and 50.04% (n = 344) reported complied. Table 1 presents the percentages and Chi-square test results for the selected demographics factors and the screening status. Of all demographic variables, only ethnicity was significantly related to the screening status, $\chi^2 = 21.32$, $P < 0.001$. Among those who reported compliance, the majority of them were Chinese (69.39%).

Table 1 Percentages and significance test of demographic factors in relation to mammography screening status

Demographic information	Never screened (n = 164)	Non-compliance (n = 174)	Compliance (n = 344)	Chi-square test P value
Age category				0.84
40–64	78.66	78.74	80.52	
65+	21.34	21.26	19.48	
Marital status				0.34
Not married	19.50	25.58	20.82	
Married	80.50	74.42	79.18	
Highest grade completed				0.23
Below high school	28.21	28.57	28.66	
High school+	64.05	71.43	71.34	
Employment status				0.20
Employed	55.00	57.89	63.02	
Unemployed	45.00	42.11	36.98	
Annual household income				0.29
Less than \$10,000	41.18	28.99	35.81	
\$10,000–\$30,000	42.02	48.55	42.23	
>\$30,000	16.81	22.46	21.96	
Ethnicity				0.0003
Vietnamese	23.75	26.01	14.87	
Korean	24.38	20.81	15.74	
Chinese	51.88	53.18	69.39	

Table 2 Odds ratio and 95% confidence intervals from the multinomial analysis of cultural factor in relation to mammography screening status

	Univariate multinomial model		Multivariate multinomial model	
	Never screened vs compliance	Non-compliance vs compliance	Never screened vs compliance	Non-compliance vs compliance
Years lived in the US				
< 15	1.67 (1.36, 2.04)**	1.08 (0.89, 1.3)	1.65 (1.29, 2.12)**	1.13 (0.9, 1.41)
> 15	Referent	Referent	Referent	Referent
How well speak English				
Not at all	1.96 (1.44, 2.66)**	0.99 (0.74, 1.31)	1.67 (1.2, 2.52)*	1 (0.68, 1.49)
Not well	1.15 (0.87, 1.53)	0.87 (0.68, 1.12)	1.02 (0.73, 1.44)	1.07 (0.79, 1.43)
Well/very well	Referent	Referent	Referent	Referent
Cancer is curable				
Disagree	1.29 (1.03, 1.62)*	0.94 (0.75, 1.19)	1.23 (0.95, 1.6)	1.11 (0.86, 1.44)
Agree	Referent	Referent	Referent	Referent
There is something I can do to prevent getting cancer				
Disagree	1.26 (0.97, 1.64)	1.04 (0.8, 1.37)		
Agree	Referent	Referent		
Fear of getting a bad test result				
Yes	1.54 (1.07, 2.21)*	1.02 (0.66, 1.59)	1.34 (0.89, 2.04)	1.04 (0.65, 1.66)
No	Referent	Referent	Referent	Referent
Embarrassment/shame of being diagnosed with breast cancer				
Yes	1.75 (0.97, 3.16)	1.13 (0.55, 2.35)		
No	Referent	Referent		
Do you often use the Internet for sources of information?				
No	1.33 (1.05, 1.70)*	0.94 (0.76, 1.17)	1.07 (0.79, 1.46)	1.02 (0.78, 1.34)
Yes	Referent	Referent	Referent	Referent

Notes: * $P < 0.05$; ** $P < 0.01$.

Table 3 Odds ratio and 95% confidence intervals from the multinomial analysis of enabling factor in relation to mammography screening status

	Univariate multinomial model		Multivariate multinomial model	
	Never screened vs compliance	Non-compliance vs compliance	Never screened vs compliance	Non-compliance vs compliance
Have a regular physician to visit				
No	6.79 (4.37, 10.55)**	3.43 (2.26, 5.21)**	2.74 (1.26, 5.97)*	2.39 (1.15, 4.95)*
Yes	Referent	Referent	Referent	Referent
Importance of being screened for cancers				
Not important	1.72 (1.07, 2.77)*	1.58 (1.01, 2.48)*	1.07 (0.56, 2.05)*	1.13 (0.64, 1.99)
Somewhat important	3.01 (1.79, 5.06)**	1.59 (0.95, 2.66)	2.41 (1.05, 5.55)*	0.70 (0.31, 1.61)
Very important	Referent	Referent	Referent	Referent
Insurance covers breast cancer screenings				
No	6.54 (3.67, 11.66)**	6.56 (3.67, 11.70)**	4.65 (2.23, 9.67)**	4.86 (2.55, 9.25)**
Yes	Referent	Referent	Referent	Referent
Communication problem				
Yes	2.33 (1.53, 3.54)**	1.82 (1.21, 2.76)**	1.01 (0.50, 2.04)	0.78 (0.42, 1.46)
No	Referent	Referent	Referent	Referent
Transportation to the facility				
No	3.02 (1.97, 4.66)**	2.68 (1.75, 4.10)**	1.29 (0.57, 2.92)	2.32 (1.07, 5.05)*
Yes	Referent	Referent	Referent	Referent
Lack of knowledge				
Yes	2.34 (1.57, 3.50)**	1.42 (0.96, 2.09)	0.88 (0.44, 1.75)	0.86 (0.47, 1.59)
No	Referent	Referent	Referent	Referent
Know where to get services				
No	4.29 (2.74, 6.73)**	2.18 (1.43, 3.31)**	2.59 (1.12, 6.02)*	1.15 (0.53, 2.51)
Yes	Referent	Referent	Referent	Referent

Notes: * $P < 0.05$; ** $P < 0.01$.

Koreans and Vietnamese counted for a similar percentage of compliance with 15.74% and 14.87%, respectively.

Cultural factors

Of the seven cultural variables analyzed individually in relation to the screening status adjusting for the ethnicity

variable, five variables significantly differentiated between the never-screened and the screened. Those who lived in the United States for less than 15 years were more likely to be never-screened than those who had lived in the United States for 15 or more years (OR = 1.67, 95%, CI = 1.36, 2.04). Those who did not speak English at all were more likely

Table 4 Odds ratio and 95% confidence intervals from the multinomial analysis of environmental factor in relation to mammography screening status

	Univariate multinomial model		Multivariate multinomial model	
	Never screened vs compliance	Non-compliance vs compliance	Never screened vs compliance	Non-compliance vs compliance
Making appointments for medical care				
Poor/fair	1.76 (1.15, 2.67)*	1.31 (0.87, 1.99)	1.34 (0.74, 2.40)	1.45 (0.83, 2.54)
Good/excellent	Referent	Referent	Referent	Referent
Waiting time to see the doctor				
Poor/fair	1.09 (0.71, 1.69)	0.93 (0.61, 1.42)		
Good/excellent	Referent	Referent		
Time between making an appointment for care and the day of your visit				
Poor/fair	1.53 (0.98, 2.38)	1.12 (0.73, 1.73)		
Good/excellent	Referent	Referent		
Rating of the care of medical group				
Poor/fair	1.98 (1.28, 3.08)**	1.12 (0.74, 1.70)	1.50 (0.84, 2.68)	0.83 (0.47, 1.44)
Good/excellent	Referent	Referent	Referent	Referent

Notes: * $P < 0.05$; ** $P < 0.01$.

Table 5 Odds ratio and 95% confidence intervals from the multinomial analysis of family and social support factor in relation to mammography screening status

	Univariate multinomial model		Multivariate multinomial model	
	Never screened vs compliance	Non-compliance vs compliance	Never screened vs compliance	Non-compliance vs compliance
Discussed breast cancer with your significant other or family				
No	1.07 (0.63, 1.85)	0.82 (0.48, 1.43)		
Yes	Referent	Referent		
Family/friend had a mammogram				
No	17.4 (9.33, 32.3)**	3.03 (1.85, 4.95)**	17.4 (9.33, 32.3)**	3.03 (1.85, 4.95)**
Yes	Referent	Referent	Referent	Referent

Notes: * $P < 0.05$; ** $P < 0.01$. The family/friend had the mammogram became the only significant variable. Therefore, the results are the same regardless if we run the multivariate or not.

to be never-screened than those who spoke English well (OR = 1.96, 95%, CI = 1.44, 2.66). Those who disagreed with the belief that cancer is curable were more likely to be never-screened (OR = 1.29, 95%, CI = 1.03, 1.62). Those who feared getting a bad test results were more likely to be never-screened (OR = 1.54, 95%, CI = 1.07, 2.21). Those not using the Internet for sources of information were more likely to be never-screened (OR = 1.33, 95%, CI = 1.05, 1.70). However, none of these variables significantly differentiated between the non-compliance and the compliance (Table 2).

When including the above five significant variables from the univariate analysis into the multivariate multinomial model, two variables remained significant. Those who lived in the United States for less than 15 years were more likely to be never-screened than those living in the United States for 15 years or more (OR = 1.65, 95%, CI = 1.29, 2.12). Those who did not speak English at all were more likely to be never-screened than those who spoke English well (OR = 1.67, 95%, CI = 1.20, 2.52). None of these variables significantly differentiate between the non-compliance and the compliance in the multivariate multinomial model.

Enabling factors

When enabling variables were analyzed individually in relation to the screening status adjusting for the ethnicity variable, all seven variables significantly differentiated between the never-screened and the compliance. Those without a regular physician to visit were more likely to be never-screened than those with a regular physician to visit (OR = 6.79, 95%, CI = 4.37, 10.55). Those who did not perceive the importance of being screened for cancers and those who said they thought the screening was somewhat important were more likely to be never-screened compared with those who believed the screening was very important (OR = 1.72, 95%, CI = 1.07, 2.77; OR = 3.01, 95%, CI = 1.79, 5.06, respectively). Those who did not have health

insurance to cover the breast cancer screening cost were more likely to be never-screened (OR = 6.54, 95%, CI = 3.67, 11.66). Those who had no transportation to the facility were more likely to be never-screened than those who did not (OR = 3.02, 95%, CI = 1.97, 4.66). Those who indicated having communication problems were more likely to be never-screened (OR = 2.33, 95%, CI = 1.53, 3.54). Those who lacked knowledge were more likely to be never-screened (OR = 2.34, 95%, CI = 1.57, 3.50). Those who did not know where to get services were more likely to be never-screened (OR = 4.29, 95%, CI = 2.74, 6.73).

When non-compliance was compared with compliance, those without a regular physician (OR = 3.43, 95%, CI = 2.26, 5.21), who did not perceive the importance of being screened for cancers (OR = 1.58, 95%, CI = 1.01, 2.48), whose insurance did not cover the breast cancer screening cost (OR = 6.56, 95%, CI = 3.67, 11.70), who had limited English proficiency (OR = 1.82, 95%, CI = 1.21, 2.76), who had no transportation to the facility (OR = 2.68, 95%, CI = 1.75, 4.10), and who did not know where to get services (OR = 2.18, 95%, CI = 1.43, 3.31) were more likely to be non-compliant (Table 3).

When including the above seven significant variables from the univariate analysis into the multivariate multinomial model, four variables remained significant for the comparison between never-screened versus compliance: having a regular physician, perceiving the importance of being screened for cancers, having insurance that covered breast cancer screenings, and knowing where to get services. In comparison, three variables were significant for the comparison between the non-compliance and compliance: having a regular physician, having insurance that covers breast cancer screenings, and having transportation problems (to the facility).

Environmental factors

Of the four environmental variables analyzed individually in relation to the screening status adjusting for the ethnicity

variable, two variables significantly differentiated between the never-screened and the screened. Those who reported that “arrangements for making appointments for medical care” were poor or fair were more likely to be never-screened (OR = 1.76, 95%, CI = 1.15, 2.67). Those who rated the “care at their medical group” as poor or fair were more likely to be never-screened (OR = 1.98, 95%, CI = 1.28, 3.08). However, none of these variables significantly predicted the non-compliance compared with the screened (Table 4). After including the above two significant variables from the univariate analysis into the multivariate multinomial model, none were significant.

Family/social support factors

One variable under the family and social support domain in relation to the screening status was significant. Those who did not report a family member or friend having a mammogram were more likely to be never-screened (OR = 17.4, 95% CI = 9.33, 32.3) and non-compliant (OR = 3.03, 95% CI = 1.85, 4.95). The multivariate multinomial model remained the same as only one variable was significant in the univariate analysis (Table 5).

Discussion

This study examined multiple levels of influence of demographic factors, enabling, cultural, environmental health system, and family/social support factors underlying breast cancer screening among Chinese, Korean, and Vietnamese American women using the Sociocultural Health Behavior Model. The study found some significant associations among the factors in the model.

Of the demographic variables, only ethnicity was related to breast screening status. Chinese were more compliant with screening status followed by Koreans and Vietnamese. Consistent with previous literature, ethnicity is a powerful predictor of the lack of breast cancer screening.^{29–31} Although marital status was often cited as a strong predictor for breast cancer screening,^{2,14} our results did not show this association. This may in part be due to the high proportion of married women among the participants in our study, which led to little variation.

Consistent with previous studies,^{14,18} acculturation factors seemed to have a great impact on breast cancer screening. This study found that there was an association between the lengths of time lived in the United States and the likelihood of screening. The longer a person had lived in the United States, the more likely they were to have ever been screened. Multivariate analysis also showed that among cul-

tural variables, those who lived in the United States for less than 15 years and those who did not speak English were more likely to be never-screened than those living in the United States for longer than 15 years and who could speak English. In addition, our findings were in line with the literature that suggests cultural beliefs may play an important role in Asian American women’s cancer screening behavior.³² Those who did not think cancer was curable, or who feared getting a bad test result, were less likely to have the screening.

Of the enabling factors, those who did not have a regular physician, did not have health insurance to cover the screening cost, did not recognize the importance of being screened for cancers, had language problems, lacked knowledge about breast cancer, or did not know where to get the services were more likely to have never been screened than those who did not have problems with these issues. With the exception of lack of knowledge and uncertainty about where to go for the services, all the other four factors were independently associated with screening behavior. These enabling factors also differentiated compliance from non-compliance for breast cancer screening. Without a regular physician and lack of health insurance to cover breast cancer screening, costs were the most significant barriers impeding Asian American women to access the screening. These findings corroborate the extant literature which suggests enabling factors, such as having health insurance and a usual source of care, are the strongest facilitators of receiving breast cancer screening.^{8,14,33}

Of the environmental factors, those who reported that arrangements of appointments were poor or fair, and who rated the quality of care of the medical group as poor, were less likely to get screened for breast cancer than those who chose a good or excellent rating. Future studies are needed to confirm the independent impact of these factors.

Of the family/social factors, those who did not have family or friends getting a mammogram were less likely to get screened. Social support has been found to be effective in increasing breast cancer screening among other ethnic/racial groups such as African Americans and appears to be so for Asian Americans as well.³⁴ Having a family member or friend who had a mammogram increased the likelihood of being screened.

There were some limitations to the study. First, since the sample was drawn from Asian American women who participate in community organizations, the findings may not be generalizable to all Asian American women, especially those who do not participate in community-based organizations. Second, these findings are based on self-report questionnaires

and as a result may include participant response bias and measurement error since some studies have found that the prevalence of cancer screening tests are often overestimated.³⁵ Third, due to the nature of cross-sectional study, an association with breast cancer screening may not warrant a causal relationship.

Despite these limitations, using the Sociocultural Health Behavior Model, our study adds evidence to the growing body of literature with regard to the impact of sociocultural factors on Asian American women's breast cancer screening behavior. The results of this study suggest that breast cancer screening programs will be more effective if they include the cultural and health beliefs, enabling, and social support factors associated with breast cancer screening. Sensitivity to ethnic and cultural factors, especially English language and other family or community contexts and dynamics, should be present throughout all secondary prevention activities, especially with the provision of culturally appropriate translation services and education materials in one's native language to enhance interventions which target improved breast screening rates among Asian Americans. Furthermore, the use of community organizations, which served as the basis for the study, can play a role in assisting Asian Americans in identifying, planning, and adopting effective evidence-based screening programs. Differences in services within an Asian ethnic population should be studied to determine the impact on breast cancer screening. The community organizations working in collaboration with representatives from local government, local health departments, culturally competent primary physicians, and other related partners, may be more successful than a single agency in implementing prevention and breast cancer screening programs.

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Disclosure

The authors have no conflicts of interest to declare.

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