The Relevance of Fatalism in the Study of Latinas’ Cancer Screening Behavior: A Systematic Review of the Literature

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Abstract

Background Fatalism has been identified as a dominant belief among Latinos and is believed to act as a barrier to cancer prevention. However, controversy exists over the utility of the construct in explaining health disparities experienced by disadvantaged populations above the influence of structural barriers such as low socioeconomic status (SES) and limited access to health care.

Purpose This paper reviews the empirical research on fatalism and Latinas’ participation in cancer screening in an attempt to determine whether fatalism predicts participation in cancer screening after accounting for structural barriers.

Method Google Scholar, ERIC, CINAHL, Medline, PsychINFO, ProQuest, PubMed, and PsychARTICLES were searched for empirical studies published prior to February 25, 2010.

Results A total of 43 articles were obtained and 11 met the inclusion criteria. The majority of studies (64%) reported a statistically significant association between fatalism and utilization of cancer screening services after accounting for structural barriers. However, mixed findings and limitations in measurement and design across studies preclude clear conclusions about the nature of the relationship.

Conclusion Preliminary evidence for an inverse association between fatalism and Latinas’ utilization of cancer screening services after accounting for structural barriers was identified. However, additional research that addresses methodological limitations is warranted to advance our understanding of the utility of fatalism in explaining inequities in cancer burden experienced by this at-risk group.

Keywords Cancer · Cultural Beliefs · Fatalism · Ethnic Disparities · Latinos · Women’s Health

Introduction

Inequities in the timeliness and quality of cancer treatment along with the probability of cancer survival experienced by Latinas regardless of age, stage, and type of cancer highlight the need for public health efforts aimed at reducing the cancer burden experienced by this population [1]. Across all ethnic groups, Latinas experience the highest rate of invasive cervical cancer and related mortality with incidence rates that are almost twice as high as those of their non-Latino White counterparts. Although the incidence of breast and colorectal cancer is lower for Latinas compared to African-American and non-Latino White women, Latinas are more likely to be diagnosed with the disease at later stages, decreasing their chance of survival [1]. To a large extent, such cancer disparities can be attributed to Latinas’ underutilization of cancer screening services [2]. Regular cancer screening can greatly improve the chance of survivorship for certain cancers (e.g., breast, colorectal, and cervical cancer). Unfortunately, Latinas exhibit some of the lowest cancer screening rates in the

1 Given limitations in the existing literature on fatalism and cancer screening (e.g., the limited amount of studies that directly measured the relationship between fatalism and cancer screening and the fact that most of the research on the subject has been conducted on females of Latin American descent), this review will focus exclusively on Latinas. However, the reviewed topic is also relevant to males and other ethnic groups, most notably, African-Americans.
USA [1]. Although barriers such as low health literacy and limited access to care certainly play a role in explaining this disparity, fatalism may further explain Latinas’ underutilization of these services [3–5].

Fatalism and Cancer Screening

Fatalism refers to the general belief that all events, and in particular, the actions and occurrences that form an individual life, are determined by fate [6]. When applied to health, fatalism is often operationalized as negative or pessimistic attitudes regarding preventive health practices and disease outcomes. Fatalism has therefore been identified as a potential barrier to cancer prevention and early detection efforts [5, 7, 8]. Racial and ethnic differences in fatalism have been identified, with fatalistic beliefs and attitudes towards health being more common among Latinos and African-Americans compared to non-Latino Whites [9–11]. For example, Latinos are more likely than non-Latino Whites to believe that cancer cannot be prevented and that death is inevitable after diagnosis [12]. Such beliefs are likely to result in few perceived benefits to screening, particularly in light of the material losses (e.g., time, money) and aversive experiences (e.g., discomfort, anxiety) associated with screening. Moreover, one would expect normative pressure to comply with cancer screening guidelines to be low within cultures where fatalistic attitudes towards health are pervasive.

However, the relevance of fatalism in explaining Latinas’ screening behavior in the context of social and environmental constraints is unclear. Many scientists have cautioned against identifying fatalism as an impediment to Latino health without considering the numerous material barriers (e.g., low education, poor access to health care, and poverty) encountered by this population [8, 13]. Philosophical perspectives on fatalism stress that the construct is most accurately conceptualized as a balance between the almost universally valued goal of good health, and the recognition that barriers to health exist that may not be overcome through personal effort [14]. Poverty, racism, discrimination, and inadequate access to education and health care represent important barriers to health-enhancing behaviors [15, 16]. Thus, for socially disadvantaged populations such as Latinos, fatalistic attitudes towards cancer maybe grounded in reality [8, 17]. Moreover, poor health outcomes experienced by the disadvantaged will likely reinforce fatalistic perceptions about diseases such as cancer [18].

Thus, if fatalism is merely a reflection of the constraints experienced by disadvantaged populations, intervention efforts will optimally focus on decreasing tangible barriers to cancer screening (e.g., inequitable healthcare access), rather than directly targeting fatalistic beliefs and attitudes of this population.

Purpose

In summary, fatalism maybe an important factor in explaining the underutilization of cancer screening services among Latinas, however, its significance over the influence of social and environmental constraints is unclear. This paper will review the empirical research on fatalism and Latinas’ utilization of cancer screening services in order to determine whether fatalism predicts Latinas’ participation in cancer screening after accounting for structural barriers such as health care access and SES. In addition, this paper will highlight methodological strengths and limitations across studies to draw conclusions about the quality of the available data and make recommendations for future research.

Methods

An initial search on Google Scholar, ERIC, CINAHL, Medline, PsychINFO, PubMed, ProQuest, and PsychARTICLES was conducted using the key terms “Hispanic, Hispano, Hispana, Latino, or Latina,” and “fatalism, fatalismo, or fatalistic beliefs” and “cancer screening or cancer.” The search was restricted to peer-reviewed articles or dissertations written in English or Spanish and published prior to February 25, 2010 (no start date was specified). A total of 38 unique articles or dissertations were identified that included any combination of the key terms from each category in the title or abstract of the paper. The reference lists of the remaining articles were reviewed to identify additional articles that met the initial search criteria for the present review for a total sample of 43 articles. The search was then refined to quantitative studies that directly measured the relationship between fatalism and Latinas’ cancer screening behavior after accounting for SES or health care access. Of the 43 manuscripts identified: seven were excluded because they were qualitative studies [19–25]; 18 were excluded because they did not directly measure cancer screening behavior [8, 11, 12, 26–40]; 3 were excluded because they did not directly measure fatalism2 or include it as an independent predictor [4, 41, 42]; two were excluded because they did not report results by ethnicity [43, 44]; one was excluded because participants were male [45]; and one was excluded because the authors did not account for SES or health care access in analyses [46] for a remaining sample of 11 studies. Data on each study’s design, population sampled, and measurement of fatalism and cancer screening are summarized in Table 1.

2 Although fatalism and locus of control are related constructs, distinct differences have been reported across constructs in regards to philosophical and conceptual underpinnings, dimensionality, and potential implications for health behavior [62–64]. Thus, studies that utilized locus of control scales to assess fatalism were excluded from this review.
Results

Study Characteristics

All articles included in this review were evaluated with regard to: study design; characteristics of the sample population; method of assessment of fatalism and cancer screening; and control of confounding factors (e.g., age, SES, access to medical care). All studies assessed and controlled for age, SES, acculturation, and, with the exception of one study, health care access [47]. Seven of the 11 studies reviewed (64%) reported statistically significant inverse associations between fatalism and the likelihood of cancer screening. However, most of the studies included in this review adopted a cross-sectional design, limiting conclusions about causation. In addition, all studies were conducted on adult female populations that were either exclusively or largely of Latino background, and all reported differences by ethnicity. While all studies measured fatalism, the operationalization and measurement of the construct varied across studies. Finally, all but two studies relied on self-report to assess cancer screening behavior; specifically, eight studies measured cervical cancer screening, seven measured breast cancer screening, and one study measured colorectal cancer screening behavior.

Study Design

Ten studies implemented a cross-sectional design. Although cross-sectional designs have numerous advantages (e.g., rapid implementation; inexpensive), they do not allow for the establishment of directionality. Thus, from this review one cannot rule out the possibility that the reported associations between fatalism and cancer screening are accounted for by the influence of the behavior itself upon women’s beliefs and attitudes towards cancer. However, the two studies from which a causal relationship can be inferred [48, 49] suggest that fatalism predicts a likelihood of participating in screening. These results are discussed in more detail below.

Study Populations

Seven of the 11 studies were based on community samples and implemented some form of random approach to identifying subjects (e.g., random digit dial or stratified area probability sample). Of the studies that did not implement random sampling procedures, one relied on a convenience sample of women newly diagnosed with cervical cancer presenting for gynecological care [48], one sampled women participating in a national breast and cervical cancer screening program [49], one sampled women who had participated in the El Paso Cancer and Chronic Disease Consortium [50], and finally, one sampled women who had been in contact with the Los Angeles County Breast Cancer Early Detection Program [47].

All studies were conducted on adult Latino populations from various regions of the USA, including Orange County, San Jose, San Diego, San Francisco, Fresno, Modesto, Los Angeles, Brooklyn, Miami, Chicago, Phoenix, Manhattan, Galveston, Brazoria, Houston, El Paso, and Matagorda. The country of origin of participants varied across studies with five studies relying on predominantly Mexican-American [10, 13, 51, 52] or Mexican-American and Central American participants [53], two studies focusing on Mexican-American women exclusively [50, 54], and two studies sampling women from the Caribbean [3, 49]. Two of the studies reviewed did not include any information about country of origin [47, 48].

Measurement of Fatalism

There was little consensus in the operationalization and measurement of fatalism across the studies reviewed. Eight of the eleven studies utilized instruments that were either adapted from existing scales [27, 47, 49, 53] or unique to the study [10, 13, 51, 52]. Methods of instrument development varied from comprehensive ethnographic interviews [13] to pilot testing of items created by the investigators [54]. Additional instruments utilized include an 8-item fatalism scale created by Cuellar and colleagues [55] and the Powe Fatalism Inventory [18]. All but two of the studies included in the review [47, 54] assessed fatalistic beliefs and attitudes specific to cancer. Representative items for all instruments are included in Table 1.

Measurement of Cancer Screening

All but two studies relied on self-report to assess cancer screening behavior. Methods of assessment varied. One study relied on written responses [48]; two relied on responses to face-to-face interviews [3, 54]; and six relied on responses to telephone interviews [10, 13, 47, 51–53]. Objective methods of assessing screening behavior included whether or not participants returned a Fecal Occult Blood Test (FOBT) screening kit [49], and medical record abstractions [50]. Additional information on each study’s method of assessment is outlined in Table 1.

Relationships Between Fatalism and Key Sociodemographic Variables

Of the studies reviewed, six reported associations between fatalism and key sociodemographic variables such as SES and acculturation [10, 13, 48, 51–53]. In general, fatalism...
Table 1  Source of population, design, measurement, and results of reviewed studies

| Publication          | Population                                                                 | Design                          | Fatalism assessment                                                                 | Cancer screening assessment | Study findings                                                                                   | Evidence |
|---------------------|-----------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------|----------|
| Harmon et al. (1996) [51] | Community sample of 566 Latinas randomly selected from 11 church rosters in the Phoenix, AZ metropolitan area. Mean age: 43.2 | Cross-sectional design. Data collected via telephone survey in language of choice (i.e., English or Spanish) | Study-specific 5-point Likert scale that assessed fear and fatalism towards cancer. Representative items include: (1) I am so convinced that everything can cause cancer that I feel I have no control over my chances of avoiding it; (2) I am so afraid of being told that I have cancer that I avoid going to the doctor. | Self-report of whether respondents had ever had a Pap smear (yes/no) and time since their last Pap smear. | After controlling for age, education, family cancer history, insurance status, and acculturation, fatalism was significantly associated with screening behavior ($\beta=0.30$) with more fatalistic beliefs being associated with more time since last Pap smear. Fatalism towards cancer was associated with reporting a family history of cancer, low acculturation, and less education. | +        |
| Chavez et al. (1997) [13] | Community sample of 1,225 women (803 Latinas) from Orange County, CA. Mean age of sample: 38.5 | Cross-sectional design. Data collected via structured telephone interviews in language of choice | Study-specific 4-item scale based on results from pilot data and ethnographic interviews previously conducted by authors. Response format: agree/disagree. (1) Fate is a risk factor for cervical cancer; (2) I’d rather not know if I had cervical cancer; (3) There is not much I can do to prevent cervical cancer; (4) If found early, cervical cancer can be cured. | Self-report of whether individual had undergone a Pap smear test within 3 years of interview. | After controlling for insurance coverage and SES. Latinas who endorsed any fatalistic beliefs were significantly less likely to report Pap smear use within the last 3 years. Latinas with medical insurance and with more than 12 years of education were less likely to believe that there was little they could do to prevent cervical cancer. | +        |
| Napoles (1999) [53] | Community sample of 977 Latinas ages 40–75 years randomly selected from San Francisco, San Jose, Fresno, and Modesto, California | Cross-sectional design. Data collected via structured telephone interviews in language of choice | 3 dichotomous items derived from a 9-item measure developed by Perez-Estable et al. [12] based on a study of Latinos and ethnicity-specific attitudes about cancer and early detection. Response format: yes/no. Items included were the following: (1) Little one can do to detect cancer; (2) Cancer is like a death sentence; (3) Little one can do to prevent cancer. | Self-report of undergoing a mammogram within the past 2 years and a Pap smear within the last 3 years. | No significant relationship between fatalism and mammography or Pap smear screening. Fatalism was negatively associated with access to care, income, number of years in the USA, and US born status. | −        |
| Ramirez et al. (2000) [52] | Community sample of 2,239 Latinas age 40 and older randomly selected from San Francisco, Miami, Brownsville, Laredo, Sun Antonio, San Diego, and Brooklyn | Cross-sectional design. Data collected via telephone interviews in language of choice | Study-specific 3-item scale assessing women’s attitudes towards cancer. Response format: agree, disagree, neither. (1) Cancer can be cured; (2) There is little that I can do to prevent cancer. | Self-report of undergoing mammogram in last 3 years and Pap smear in last 2 years. | No Relationship between fatalism and mammography or Pap smear screening. Fatalism was related to country of origin with Mexican-Americans being the most fatalistic followed by Puerto Ricans. No consistent association found between fatalism and SES. | −        |
| Randolph et al. (2002) [54] | Area probability sample of 452 Mexican-American women ages 50–74 years from three southeast Texas counties | Cross-sectional design. Data collected via face-to-face interviews in language of choice | 8-item Fatalism scale developed by Cudler et al. [55]. Representative items include: (1) It is more important to enjoy life now than to plan for the future; (2) It does not do any good to try to change the future because the future is in the hands of God. | Self-reported Pap smear use within the past 3 years. | No relationship between fatalism and Pap smear screening. | −        |
| Study                                                                 | Design                                                                 | Measures                                                                 | Results                                                                 |
|----------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------|
| Otero-Sabogal et al. (2003) [10]                                      | Community sample of 977 Latinas randomly selected from San Francisco,    | Cross-sectional design. Data collected via telephone interviews in language of choice. | Study-specific 9-item cancer related fatalism scale based on focus group interviews conducted by investigators of this study and one item used in previous studies: (1) Little one can do to detect cancer; (2) Cancer is God’s punishment; (3) Almost everything causes cancer; (4) The word cancer scares you; (5) Cancer is like a death sentence; (6) Illness is a matter of chance; (7) Little one can do to prevent cancer; (8) Do not want to know about incurable cancer; (9) Rather not know about incurable cancer. After controlling for sociodemographic variables, acculturation, access to care, and attitude about physicians, regular self-reported use of mammography (OR=0.6) and Pap smear (OR=0.6) screening was less likely in individuals who endorsed more fatalistic beliefs. Fatalism was negatively associated with US born status, education, acculturation, income, and access to health care. |
| Belhadj et al. (2004) [48]                                            | Retrospective cohort study design. Data collected via self-administered questionnaires in language of choice. | Questions adapted from Chavez et al., [28]: (1) Do you think cancer is a deadly disease; (2) Is cancer just bad luck; (3) Nothing can be done to avoid cancer; (4) Anything can cause cancer; (5) Cancer treatment is worse than the disease; (6) I would not want to know if I had cancer. Self-report of whether or not they had undergone a Pap smear screen prior to their diagnosis. After controlling for insurance coverage, time living in the USA, and education, women who reported never undergoing a Pap smear screen prior to diagnosis were more likely to think that cancer was a result of bad luck (OR=2.60) and state that they did not wish to be informed that they had cancer (OR=3.00). Education level and ethnicity were not associated with fatalistic beliefs. |
| Magai et al. (2004) [3]                                               | Community-based sample of 1,364 Women (764 Latinas) randomly selected from US Census files. Mean age=59.3 | Cross-sectional design. Data collected via face-to-face interviews. Language of interviews not specified. | Powe Fatalism Inventory [19]. This scale consists of 15 dichotomous items that focus on the defining attributes of fear, pessimism, inevitability of death, and predestination. Representative items include “I believe if someone has cancer, it was meant to be” and “I believe if someone has cancer it is already too late to do anything about it.” Frequency of mammogram over the past 10 years. No relationship between fatalism and mammogram utilization. |
| Gorin (2005) [49]                                                    | Convenience sample of 950 Latinas residing New York communities who were participating in a national breast and cervical cancer screening program. Mean age=56.80 | Cross-sectional prospective design. Data collected via self-administered questionnaires in language of choice. | 3 items derived from Powe Fatalism Inventory (1995). Response format: 4-point Likert-like scale. Return of fecal occult blood test within 90 days. After controlling for age, education level, marital status, previous FOBT compliance, and medical risk factors, women who returned the FOBT expressed significantly fewer fatalistic attitudes and beliefs than those who did not comply (OR=1.57). |
| Tenn et al. (2007) [47]                                               | 72 low-income Latinas randomly selected from a convenience sample of 1,964 women over the age of 40 who had contacted the Los Angeles County Breast Cancer Early Detection Program. | Cross-sectional design. Data collected via telephone interviews in language of choice. | Four items from the Fatalism scale developed by Cuellar et al. [55]: Items included were: (1) People die when it’s their time; (2) Live for the present; (3) It is not wise to plan too far ahead; and (4) One cannot change the future because it is in the hands of God. Frequency of mammogram over the past 2 years. After controlling for age, education, and acculturation, women who endorsed more fatalistic beliefs were significantly less likely to report having had a mammogram within the past year (OR=0.51) or 2 years (OR=0.50). |
| Lopez-McKee et al. (2008) [50]                                       | 68 low-income Mexican-American women recruited from El Paso Cancer and Chronic Disease Consortium (EPCDC) in El Paso, Texas. All women included in study qualified for free mammograms through the EPCDC and had undergone at least one mammogram in the 5 years prior to recruitment. Mean age=57.6 | Cross-sectional design. Data collected via telephone interviews in language of choice. | Powe Fatalism Inventory (1995). See above for detailed information about instrument. After controlling for education, history of cancer, and years in the USA, in frequent screeners (obtained only one mammogram in previous 5 years) endorsed significantly more fatalistic beliefs than frequent screeners (obtained at least 4 mammograms in the previous 5 years). Mean scores on the PF were 8.03 and 5.85 for infrequent and frequent screeners, respectively, p<.02. |
was associated with lower acculturation [10, 51, 53], limited access to health care [10, 13, 53], and lower education and/or income [10, 13, 51, 53]. In contrast, one study reported inconsistent findings for SES and fatalism, with education, income, and health insurance status being significantly associated with decreased likelihood of believing that little could be done to prevent cancer but not associated with the belief that cancer could be cured [52]. Finally, one study reported that individuals who reported a family history of cancer were more likely to endorse fatalistic beliefs [51].

Cervical Cancer Screening

Seven studies examined the relationship between fatalism and cervical cancer screening. In a sample of church-going Latinas primarily of Mexican-American background, Harmon and colleagues [51] found cancer fatalism to be predictive of time since last Pap smear after accounting for age, education, family cancer history, insurance coverage, and acculturation level. Similarly, Otero-Sabogal and colleagues [10] reported a significant relationship between cancer fatalism and Pap smear maintenance behavior in a sample of Latinas predominantly of Mexican-American and Central American background after accounting for sociodemographic variables, acculturation, access to care, and attitude towards physicians.

In another predominantly Mexican-American sample, Chavez et al. [13] found a significant relationship between cancer fatalism and use of Pap smear screening (within 3 years of assessment) after accounting for insurance coverage and SES. Similarly, in a sample of women newly diagnosed with invasive cervical cancer, fatalism was associated with decreased odds of participating in Pap smear screening prior to diagnosis after controlling for time living in the USA, medical insurance coverage, and education level [48].

In contrast to these findings, three studies found no significant association between fatalism [54] or cancer fatalism [52, 53] and cervical cancer screening after accounting for age, SES, and insurance coverage.

Breast Cancer Screening

Two studies found a significant association between cancer fatalism and breast cancer screening. Otero-Sabogal and colleagues [10] reported that in a sample of primarily Mexican-American Latinas, those who endorsed more fatalistic beliefs about cancer were at decreased odds of reporting regular mammogram screening after accounting for sociodemographic variables, acculturation, access to care, and attitude towards physicians. Similarly, Lopez-Mckee and colleagues [50] reported a significant, inverse association between fatalism and frequency of mammography screening in a sample of low-income Mexican-American women enrolled in a no-cost cancer screening outreach program, after controlling for education, history of cancer, and years living in the USA. In addition, Teran and colleagues [47] found a significant association between high fatalism and lower frequency of mammogram utilization after accounting for age, education, and acculturation. These results were based on a convenience sample of low-income Latinas who had been in contact with the Los Angeles County Breast Cancer Early Detection Program.

Three studies did not find a significant association between cancer fatalism [52, 53] or fatalism and breast cancer screening [3]. All of these studies controlled for age, SES, and health care access.

Colorectal Cancer Screening

Only one study investigated the relationship between fatalism and colorectal cancer screening. After controlling for age, education, marital status, previous compliance with colorectal cancer screening, and medical risk factors, women who expressed more fatalism were less likely to return FOBT screening kits after 90 days [49].

Discussion

One of the major criticisms of research emphasizing the role of cognitive processes in explaining the health behavior of disadvantaged populations is that structural barriers may better account for health disparities than cognitive processes which could merely reflect the structural barriers experienced by such populations [8]. The present review addressed this criticism by examining whether fatalism predicted the likelihood that Latinas would engage in cancer screening after accounting for structural barriers. Seven of 11 studies reviewed suggested that after controlling for variables such as age, SES, and access to health care, fatalism may indeed act as a barrier to cancer screening. Four did not find an association between fatalism and cancer screening behavior. Moreover, the literature is characterized by several limitations that need to be addressed before clear conclusions can be reached about the nature of the relationship between fatalism and cancer screening in this population.

Firstly, there is little consensus as to the operationalization of the fatalism construct across studies. For example, in regards to what would be most predictive of health behavior, it is not clear whether fatalism should be conceptualized as a global trait or merely as specific fatalistic beliefs regarding the disease of interest (e.g., cancer fatalism). Efforts to identify the underlying compo-
ments of fatalism that maybe most important to understanding Latinas’ use of cancer screening services are warranted.

Secondly, only three studies included in this review used comparable methods of measurement [3, 44, 50], making it difficult to compare results across studies. Thirdly, most of the studies reviewed reported aggregate findings across Latinos of diverse origins. “Latino or Hispanic” is a panethnic category that incorporates a diverse group of people with distinct racial, social, cultural, and historical backgrounds [8, 56]. Panethnic groupings in health research can be problematic because they mask considerable heterogeneity leading to misleading or inconclusive findings [57]. Based on the information provided in this review it is not possible to determine whether fatalism operates differently across Latino subpopulations. However, the fact that established predictors of health outcomes, such as SES, have been shown to operate differently across Latino subpopulations [58, 59] warrants efforts aimed at investigating whether the role of fatalism in predicting cancer screening differs across Latino subpopulations. Equally important are efforts aimed at evaluating the validity and reliability of fatalism measures across these diverse groups.

Fourthly, most of the studies to date have adopted cross-sectional designs that limit conclusions regarding directionality. Therefore, one cannot rule out the possibility that the observed associations between fatalism and cancer screening maybe better accounted for by the influence of participants’ behavior (i.e., underutilization of cancer screening services) on their beliefs about the importance of early detection. Fifthly, the effect sizes reported across studies were small, although the ability to detect the true magnitude of influence of fatalism on cancer screening maybe hampered by measurement error. Finally, as with all literature reviews, the validity of the findings presented maybe compromised by publication bias towards studies with significant findings, results consistent with previous research, or large sample sizes.

In conclusion, although the findings are mixed and additional research is clearly needed, the majority of the studies reviewed reported a significant relationship between fatalism and cancer screening after accounting for structural barriers. This suggests that fatalism could represent a unique predictive factor in relation to this important health behavior. On the other hand, present research is limited by factors that need to be addressed before clear conclusions can be drawn. For example, research is needed to identify the underlying components of the construct that are most pertinent to Latino health. An important question to consider is whether fatalism should be assessed as a global trait or as specific beliefs about the disease in question. In addition, increased consistency in the tools used to measure the construct would facilitate the comparison of results across studies. Such consensus may require more information regarding the reliability and validity of available instruments, particularly across diverse Latino subpopulations. Efforts to explore the unique influence of fatalistic beliefs across Latino subpopulations inclusive of males are also needed.

As noted above, only one study examined the association between fatalism and cancer screening in a prospective experimental design [49]. Longitudinal research is needed to better understand the temporal relationships among structural conditions, fatalism, and cancer screening behavior. Although beyond the scope of this paper, it is important to note that the relationship between SES, fatalism, and cancer screening maybe more complicated than what is presented in this review. For example, it is possible that fatalism maybe more accurately represented as one mechanism linking SES to cancer screening rather than an independent predictor or confounding factor. In addition, fatalistic attitudes could interact with SES to place certain individuals at greater risk of cancer screening underutilization. Using statistical models that allow for the exploration of more sophisticated hypotheses would help to further enhance our understanding of the relationship between structural barriers, fatalism, and this important health behavior.

Recent research in the contribution of fatalism to ethnic disparities [5, 60], and growing evidence that fatalistic beliefs can be changed [61] highlight the importance of understanding the role that fatalism plays in explaining Latinas’ cancer screening behavior. Improving our understanding of the importance of fatalism in explaining underutilization of cancer screening services among Latinas may drive the development of more effective and culturally appropriate interventions to reduce ethnic disparities in cancer.

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