

The Role of Spirituality Healing with Perceptions of the Medical Encounter among Latinos

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BACKGROUND: Little is known about the relationship between spirituality healing and perceptions about the medical encounter among Latinos.

OBJECTIVES: To examine the association between spirituality healing and attitudes of self-reported perceptions about the medical encounter.

DESIGN: A cross-sectional telephone survey.

PARTICIPANTS: 3,728 Latinos aged ≥ 18 years residing in the United States from Wave 1 of the Pew Hispanic Center/Robert Wood Johnson Foundation Latino Health Survey.

MEASUREMENTS: Dependent variables were ever prayed for healing (yes/no), ever asked others to pray for healing (yes/no), considered important spiritual healing (very vs. somewhat or not important), and ever consulted a 'curandero' (folk healer in Latin America) (yes/no). The primary independent variables were feelings about the last time seeing a Doctor (confused by information given, or frustrated by lack of information) and perception of quality of medical care (excellent, good, fair or poor) within the past 12 months.

RESULTS: Six percent of individuals reported that they had ever consulted a *curandero*, 60% prayed for healing, 49% asked others to pray for healing, and 69% considered spiritual healing as very important. In multivariable analyses, feeling confused was associated with increased odds of consulting a *curandero* (OR=1.58; 95% CI, 1.02–2.45), praying for healing (OR=1.30; 95% CI, 1.03–1.64), asking others to pray for healing (OR=1.29; 95% CI, 1.03–1.62), and considering spiritual healing as very important (OR=1.30; 95% CI, 1.01–1.66). Feeling frustrated by a lack of information was associated with asking others to pray for healing (OR=1.29; 95% CI, 1.04–1.60). A better perception of quality of medical care was associated with lower odds of consulting a *curandero* (OR=0.83; 95% CI, 0.70–0.98).

CONCLUSION: Feelings about the medical encounter were associated with spirituality healing, praying for healing, and asking others to pray for healing. Feeling confused and perception of poor quality of medical care were associated with consulting a *curandero*.

KEY WORDS: Latinos; medical encounter; spirituality healing; praying for healing; *curanderos*.

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INTRODUCTION

Spirituality along with religious beliefs and practices is common among patients seeking medical care. Spirituality is more individualistic and self-determined, whereas religion typically involves connections to a community with shared beliefs and rituals. However, there is an overlap between religiosity and spirituality where nearly 90% of medical patients consider themselves both religious and spiritual.¹

Spirituality and religiosity, when used for the purpose of healing or to maintain health, are important components of mind-body alternative therapies, commonly used by minority populations, and particularly by Latinos.^{2–7} Spirituality and religiosity are common with Latino cultural values and daily lives, serve as foundations of strength and coping with life's struggles, as well as playing an important role as alternative therapy for health and well-being.^{8,9}

The majority of individuals appear to use alternative therapies or consult alternative practitioners in conjunction with, rather than instead of, more conventional medical treatment.¹⁰ Potential reasons for using alternative therapies include barriers to obtaining care, dissatisfaction with conventional treatment, having desire for control over health, philosophical congruence (i.e., holistic view of life), cultural beliefs, and factors related to the physician-patient relationship.^{10–14} Also, patients' use of spirituality healing is associated with barriers to obtaining care and dissatisfaction with the quality of care given by their medical provider.¹²

Key components of the physician-patient relationship such as information sharing and perceived quality of care may determine patients' satisfaction with medical care,^{15,16} and, at the same time, may determine use of alternative therapies or practitioners.^{12,14} Furthermore, patients may feel frustrated during the medical encounter when they have a sense of being inadequately informed or excluded from information about health issues or disease knowledge. Patients may also feel confused during the medical encounter when they have difficulty understanding the language and terminology of health professionals.¹⁷ Both feeling frustrated or confused may create a sense of miscommunication during the medical

encounter and weaken patients' confidence in the prescribed treatment regimen and their ability to engage with it.^{15,17}

There is little information in the literature on the relationship between spirituality healing or *curandero* use and feelings on regarding the physician-patient communication or the perception of quality of care among Latinos. The purpose of this analysis was to examine the association between spirituality healing or *curandero* use and feelings (confusion, frustration) about the information provided during the medical encounter or perception of quality of medical care among Latinos.

METHODS

Data Source

Data are from Wave 1 of the Pew Hispanic Center/Robert Wood Johnson Foundation Latino Health Survey. This survey was conducted from July 16 to September 23, 2007, with a nationally representative sample of 4,013 randomly selected US Latino adults aged ≥ 18 years living in the United States. The overall response rate for this study was 46.3%. A total of 1,320 respondents were surveyed in English and 2,639 in Spanish (and 54 were interviewed in both languages).¹⁸ After excluding 166 participants who refused to answer critical questions, a total of 3,847 respondents remained for analysis. All the interviews were conducted using the Computer Assisted Telephone Interviewing (CATI) system.¹⁸ Data were weighted using a two-stage weighting design to ensure an accurate representation of the national Latino population. The first stage takes the disproportionality of the stratified design (under-sampled or over-sampled cases) and rebalances cases back to nationally representative counts of Hispanics. The second stage comprised of post-stratification weighting to nationally representative counts of Latinos by region, age, education, heritage, born in US/years in US, and gender. An industry standard ranking program was utilized to produce final post-stratification weights.¹⁸

Measures

Outcomes. For the purposes of this analysis, we included three mind-body alternative behaviors and attitudes (praying for healing, asking others to pray for healing and identifying the importance of spiritual healing), and one alternative therapy delivered by a practitioner (consulting a *curandero* [folk healer]) that are commonly used by Latinos according to the literature.²⁻⁷ Consulting a *curandero* was assessed by asking: "Do you ever seek help from a *curandero*, a shaman or someone else with special powers to heal the sick?" (yes/no). Praying for healing was assessed by asking: "Have you ever prayed specifically to be healed of an illness or injury?" (yes/no). Asking others to pray for healing was assessed by asking: "Have you ever asked others to pray for you to be healed of an illness or injury?" (yes/no). The importance of spiritual healing was assessed by the questions: "How important is spiritual healing in maintaining your health and well being? Would you say very important, somewhat important, slightly important or not at all important?" The original unweighted percentages based on the analytical sample used for those responses were 69.2% (very), 19.4% (somewhat), 5.3%

(slightly) and 6.1% (not at all). Since the proportional odds assumption was violated when using as ordinal outcome, we dichotomized this variable as very important vs. somewhat/slightly/not at all important.

Independent Variables. Based on previous qualitative and quantitative research conducted predominately on non-Hispanic populations,¹²⁻¹⁷ we selected as primary independent variables those variables we hypothesized as potential correlates of the outcomes. These were perception of quality of medical care and feelings toward the last medical encounter. Perception of quality of medical care was assessed by the question: "Overall, how would you rate the quality of medical care that you have received in the past 12 months? Was the medical care excellent (code=4), good (code=3), fair (code=2), or poor (code=1)?" Feelings toward the last medical encounter were assessed by the following two questions: "Thinking about the last time you saw a doctor or other medical professional for any reason, did you feel any of the following things?...At any point, did you feel... 1) Confused by the information you were given? (yes/no); and 2) frustrated by a lack of information or an inability to find what you wanted to know?" (yes/no).

Based on the literature, we included as control variables other potential correlates for mind-body alternative therapies or *curandero* utilization among Latinos, such as sociodemographic factors, nativity status, self-rated health, diabetes, and depression.^{2-7,19-27}

Sociodemographic variables were age (years, 18-49 and 50+), sex, marital status (married, unmarried), education (in years, 0-11 and 12+), type of Hispanic/ Latino origin (Mexican, Puerto Rican, Cuban, Central/South American, and other Latino), health insurance coverage (any, private, Medicare or Medicaid vs. none), and having a usual source of health care (yes/ no). Nativity status was determined as US-born and foreign-born. Diabetes and depression were assessed asking the respondents if they had ever been told by a doctor or other health care provider that they had diabetes (or high blood sugar; any other time than during pregnancy for women) (yes/ no), and depression (yes/ no). Self-rated health was assessed by the question: "In general, how would you describe your own health? Would you say it is excellent (code=5), very good (code=4), good (code=3), fair (code=2) or poor (code=1)?" We used this variable as ordinal (from 1 to 5).

Statistical Analysis. All analyses were performed using the SAS System for Windows, version 9.1 (SAS Institute, Inc., Cary, NC), significance level was set at $P < 0.05$, two-tailed. Complex design effects (strata and weights) were incorporated utilizing the SURVEY procedure in SAS. To describe characteristics of the study population, we used descriptive statistics (unweighted frequencies and percentages or means). We performed correlation analyses (Spearman's $\rho = r_s$) between key health variables, primary independent variables (quality of medical care, feelings toward the medical encounter (confused, frustrated), and the outcomes. Multivariable weighted logistic regression analyses were performed to find independent correlates of the outcomes (*curandero* utilization, praying for healing, asking others to pray for healing, and importance of spiritual healing). Odds ratios (OR) with 95% confidence intervals (CI) were calculated.

RESULTS

Subjects with missing values for the dependent variables or the main independent variables (feeling confused or frustrated, and quality of care) were excluded. Those excluded ($n=119$) were more likely to be low educated individuals who do not have usual source of health care, and to report poor or fair health compared to those who remained in the study ($n=3,728$). Sixty-seven percent of the sample were between ages 18 and 49, 50% were male, 64% were married, 54% had 12 or more years of education, and 64% were of Mexican's origin (Table 1, unweighted data). Sixteen percent of our sample reported diabetes, 65% rated their own health as excellent/very good or good, and 18% reported depression. After the last time seeing a doctor or other medical professional, 23% felt confused and 27% felt frustrated. Seventy-three percent felt that they received excellent or good quality of medical care in the past 12 months. Only 6% had ever consulted a *curandero*, 60% had ever prayed specifically to be healed of an illness, 49% had ever asked others to pray for healing, and 69% had considered spiritual healing to be very important.

In the correlation analyses, diabetes was positively correlated with depression ($r_s=0.13$, $p < .0001$) and negatively correlated with self-rated health ($r_s=-0.22$, $p < .0001$). Depression was negatively correlated with better self-rated health ($r_s=-0.17$, $p < .0001$). Feeling confused and frustrated were highly intercorrelated ($r_s=0.49$, $p < .0001$), and confusion and frustration were moderately negatively correlated with perceived quality of medical care ($r_s=-0.14$ and -0.20 respectively, both $p < .0001$). Spiritual healing was moderately correlated with praying to be healed ($r_s=0.29$, $p < .0001$) and asking

others to pray for healing ($r_s=0.32$, $p < .0001$), while praying to be healed and asking others to pray for healing were highly intercorrelated ($r_s=0.45$, $p < .0001$). Consulting a *curandero* was minimally associated with spiritual healing, praying to be healed and asking others to pray for healing ($r_s=0.05$, 0.05 and 0.06 , respectively; all $p < .01$).

Table 2 shows the multivariable analyses for the primary correlates. Feeling confused after a medical encounter was significantly associated with consulting a *curandero*, praying to be healed, asking others to pray for healing, and considering spiritual healing as very important. Feeling frustrated after a medical encounter was only significantly associated with asking others to pray for healing. A better perception of quality of medical care was only significantly associated with lower odds of consulting a *curandero*.

Other significant independent correlates for consulting a *curandero* were being foreign-born (vs. US-born), being female, being of Cuban origin (vs. Mexican), and self-reporting fair/poor health (vs. good/very good/excellent). Significant correlates for praying to be healed were: being between aged 18–49 years vs. aged ≥ 50 years, being female, having a usual place to go when sick, being depressed, and having diabetes. Significant correlates of asking others to pray for healing were: being foreign-born, being aged 18–49 years, being female, being depressed, and having diabetes. Finally, significant correlates for considering spiritual healing as very important were: being foreign-born, being aged 18–49 years, being female, being married, being of Central or South American origin, and being depressed.

DISCUSSION

We examined the relationship between spiritual healing or *curandero* use and feelings toward the information provided during the medical encounter (confusion, frustration) or perception of quality of medical care among adult Latinos. In multivariable analyses, we found that feeling confused by the information given during the last visit with a medical professional, was associated with consulting a *curandero*, praying for healing, asking others to pray for healing and considering spiritual healing very important. In additional analyses, we adjusted for the match between patient's language and medical provider's language at interview, and the association between feeling confused and the outcomes remained. Feeling frustrated was associated with asking others to pray for healing. Finally, a better perception of quality of medical care was associated with lower odds of consulting a *curandero*.

There is limited information in the literature about *curandero* use or mind-body therapies and their association with communication in the medical encounter or perception about quality of medical care. With partial agreement to our findings, in two separate studies, *curandero* utilization or increased use of spiritual therapy was associated to dissatisfaction with medical care received at the last visit to a medical practitioner.^{12,28} However, other studies showed no association between CAM use and satisfaction or communication during the medical encounter. In one study, CAM use was not associated with satisfaction with medical care received.²⁹ In another study, Hispanic patients' CAM use was not associated with physician's communication about depression.³⁰

Table 1. Characteristics of the Study Population (N=3,728)

Demographic/ Health status	n (%)*
Age (years, range 18–97)	43.2 +/- 15.5 (mean +/- SD)
Age 18–49	2515 (67.5)
Male	1858 (49.8)
Married	2388 (64.0)
12+ years of education	2029 (54.4)
Any health insurance	2430 (65.2)
Has a usual source of health care	2748 (73.7)
Foreign born	2786 (74.7)
Hispanic/ Latino family's origin	
Mexican	2371 (63.6)
Puerto Rican	309 (8.3)
Cuban	137 (3.7)
Central/ South American	749 (20.1)
Other Latino	162 (4.3)
Self-rated health: Excellent, very good or good	2414 (64.7)
Diabetes	593 (15.9)
Depression	656 (17.6)
Main independent variables	
Feeling confused (yes)	871 (23.4)
Feeling frustrated (yes)	994 (26.7)
Quality of medical care: Excellent or good	2707 (72.6)
Dependent variables	
Consulted a <i>curandero</i>	217 (5.8)
Prayed to be healed	2234 (59.9)
Asked others to pray for healing	1821 (48.8)
Considered spiritual healing as very important	2580 (69.2)

* All data presented are unweighted

Table 2. Multivariable Weighted Logistic Regression Models*

	Consulted a <i>curandero</i>	Prayed to be healed	Asked others to pray to be healed	Felt spiritual healing was important
	ORs (95% CI)	ORs (95% CI)	ORs (95% CI)	ORs (95% CI)
Feeling confused, yes (ref. no)	1.58 (1.02–2.45)	1.30 (1.03–1.64)	1.29 (1.03–1.62)	1.30 (1.01–1.66)
Feeling frustrated, yes (ref. no)	1.23 (0.78–1.95)	1.10 (0.88–1.38)	1.29 (1.04–1.60)	0.96 (0.76–1.22)
Quality of care (score 1 to 4)	0.83 (0.70–0.98)	0.99 (0.90–1.09)	1.02 (0.92–1.12)	1.00 (0.90–1.12)
Demographic				
Age 18–49 (ref. 50+)	1.34 (0.89–2.02)	0.80 (0.65–0.97)	0.75 (0.62–0.90)	0.60 (0.48–0.74)
Female (ref. male)	0.63 (0.44–0.89)	1.22 (1.02–1.46)	1.21 (1.02–1.43)	1.41 (1.17–1.69)
Married (ref. unmarried)	0.96 (0.68–1.38)	1.14 (0.95–1.37)	1.06 (0.88–1.27)	1.36 (1.12–1.66)
Education 0–11 years (ref. 12+)	0.99 (0.68–1.44)	0.90 (0.75–1.08)	1.01 (0.84–1.22)	1.16 (0.94–1.42)
Any health insurance (ref. none)	0.76 (0.51–1.13)	1.00 (0.83–1.21)	1.04 (0.86–1.25)	0.94 (0.77–1.14)
Has a usual source of health care (ref. no)	0.98 (0.63–1.52)	1.30 (1.06–1.59)	1.13 (0.92–1.38)	1.04 (0.83–1.29)
Sub ethnicity (ref. Mexican)				
Puerto Rican	0.96 (0.49–1.86)	1.04 (0.72–1.50)	1.13 (0.81–1.57)	1.09 (0.76–1.58)
Cuban	2.99 (1.52–5.86)	0.80 (0.51–1.27)	0.96 (0.61–1.52)	0.97 (0.60–1.55)
Central/ South American	1.25 (0.78–2.02)	1.07 (0.86–1.34)	1.26 (1.02–1.56)	1.33 (1.04–1.70)
Other Latino	1.61 (0.67–3.89)	1.32 (0.85–2.06)	1.00 (0.65–1.53)	1.54 (0.99–2.39)
Foreign-born (ref. US-born)	0.58 (0.39–0.86)	1.12 (0.92–1.38)	1.22 (1.01–1.51)	1.51 (1.21–1.88)
Health status				
Self-rated health (score 1 to 5)	0.82 (0.68–0.99)	0.96 (0.87–1.07)	0.87 (0.79–0.96)	0.93 (0.84–1.04)
Depression, yes (ref. no)	1.35 (0.89–2.06)	1.55 (1.20–2.01)	1.52 (1.19–1.94)	1.42 (1.07–1.89)
Diabetes, yes (ref. no)	1.16 (0.70–1.92)	1.40 (1.09–1.79)	1.49 (1.18–1.88)	1.19 (0.91–1.56)

*Odds ratios (ORs) and 95% confidence intervals (CI) are presented

Curandero utilization (5.8%) in our study appears slightly higher than reported in other population based studies exploring “ever” and “one-year” use but lower than that reported in convenience sample studies. Among Latinos in California, 3.2% reported ever having used a *curandero*.² Likewise, using the HHANES, Higginbotham and colleagues²⁹ reported that only 4.2% of Mexican American participants used a *curandero* (plus ‘*sobadores*’ [Traditional healers using massages to treat health problems], herbalists, spiritualists, and others) during a one-year period prior to the interview (1982–1984). In contrast, our *curandero* utilization rates are lower than reported in other studies using convenience samples of Latinos. For example, the utilization rates for ever used a *curandero* were 29% among Hispanics in an outpatient clinic in Colorado,³¹ and 26% among Mexican American women attending college.³² In another study, *curanderos* were used by 13% of Mexican American adults in the Texas Rio Grande Valley in the prior 12 months.³³

A higher percentage of Latinos in our study (60%) reported ever using prayer to be healed than reported by a general sample of US adults who pray for their own health (52%).³ Because we used a separate measure from praying for healing, i.e., importance of spirituality for healing, we could not compare our spirituality measure (69% very important vs. 31% somewhat/ slightly or not important) with other studies where both prayer and spirituality were combined and did not allow for reporting on the importance of spirituality alone. For example, in a study with a majority of non-Latino White elderly respondents, Cheung and colleagues³⁴ reported a utilization of both spiritual healing and prayer in only 30%. Keegan³³ reported that 67% Mexican Americans used prayer and 28% used spiritual healing in the past year. Although we did not include other CAM practitioners or therapies, our findings suggest that praying for healing and considering spiritual healing to be very important are common practices used by Latinos.

Data on religiosity or spirituality show differences across Latino subgroups or by nativity status. The large majority of Latinos in the US identify themselves as Catholic,³⁵ though foreign-born Latinos are more likely to report being Catholic than are US-born Latinos who are somewhat more likely to be Evangelical or born-again Christians. Mexican Americans, Dominicans, Colombians and other South Americans are somewhat more likely to report they are Catholics.^{36,37} On the other hand, Latino seculars - no specific religious affiliation, atheist or agnostic - are predominantly male and younger compared with Latinos who identify as religious.³⁶ Foreign-born Latinos are more likely than their US-born counterparts to indicate that religion is important in their life. Cubans are less likely than Mexicans, Puerto Ricans or other Central Americans to indicate that religion is very important in their life. Similarly, outside the US, older persons in Havana have the highest frequency of no religious affiliation compared to older persons in other Latin American and Caribbean cities.³⁸ In our study, Puerto Ricans, Cubans and Central & South Americans who were foreign-born had significantly higher percentages for considering spirituality healing as very important compared to their counterparts who were US-born.

The effect of nativity status on mind-body therapies or alternative practitioner use in our study is not uniform. Indeed, foreign-born Latinos were less likely to consult a *curandero* but more likely to ask others to pray for healing and were more likely to consider spiritual healing important compared with US-born Latinos (the most acculturated). Our findings agree²⁷ or disagree^{2,21,29} from previous research that used different measures for acculturation, diverse groups of Latinos, or adjusted for other variables. Lee and colleagues²⁷ reported that Mexican Americans who spoke English not well/ not at all were 68% less likely to use a *curandero* than those who spoke only English (the most acculturated), controlling for proportion of life spent in the US. In contrast, Latinos (Mexican

Americans and other Latinos) who spoke English very well were six times more likely to have ever consulted a *curandero* than those who spoke only English (the most acculturated), controlling for religiosity and spirituality.² In another study, foreign-born respondents, specifically recent immigrants (<5 years in the United States), were less likely to use prayer for healing than US-born subjects.²¹ Finally, higher acculturation (measured by a 5-item scale) was significantly associated with higher percentage of overall CAM use (practitioner based -e.g., chiropractic-, and self-care based- e.g., meditation and prayer) but with lower percentage of traditional folk remedies use.²⁹ On the other hand, one study found no association between nativity status or language acculturation and *curandero* use.³¹

Our findings related to age and gender differences are important additions to the literature. Studies of CAM use among Latinos should cautiously consider overall CAM use because the use of some CAM modalities across age groups or gender may operate in opposite directions in this population. For example, in our study younger subjects were less likely to pray for healing, ask others to pray for healing and consider spiritual healing as very important, while other report, where overall CAM did not include prayer, showed that younger subjects were more likely to use overall CAM and most other CAM modalities than older subjects.³ Similarly, in our study women were less likely to consult a *curandero* but more likely to pray for healing, ask others to pray for healing and consider spiritual healing as very important compared to men. Neither gender nor age were associated with *curandero* use in four other studies.^{2,27,34,39} In one study, older age predicted *curandero* use.³¹ In other studies, compared to men, women had higher use of mind-body therapies (i.e., prayer),^{3,4,29} and traditional folk remedies (i.e., herbs).^{25,29}

This study has some limitations. Our cross-sectional analyses could not establish causal order between certain variables and the dependent variables. Also, the time reference used for the questions was different. The time for most dependent variables was "ever," and the time for feelings toward the last medical encounter was not specifically defined, while the time for quality of medical care was within the last year. In addition, our questions for CAM modalities did not capture other types (i.e., herbal teas, dietary supplements, etc) that may be common among Latinos.⁴

This study may help physicians understand the use of prayer and spirituality among Latinos. Increased use of prayer and spirituality may be related to poorer quality of physician-patient communications measured by the frustration or confusion related to provision of health care information. This underscores the importance of culturally and linguistically effective communication with Latinos who like most patients, want to be informed about their health.¹⁵ Latino patients should have clear information that which takes into account their unique cultural circumstances.^{8,11,40} On the other hand, use of spiritual healing practices that do not replace medical treatment should be viewed as attempts to increase potential benefit for health. The Latino patient tends to use spirituality as a common coping behavior. Indeed, a greater spirituality (specifically increased religiosity) among Latinos has been linked to health benefits such as: having better self-reported health, having less fear of falling, having fewer deaths, coping with cancer, maintaining better cognition and moderating the deleterious effect of depression on cognitive perfor-

mance.^{38,41-46} Health care systems and clinicians that have supportive infrastructure and organizational systems for cultural competence facilitate patient care that is more cultural competent and may decrease patient frustration and confusion and improve the delivery of patient centered care.

In conclusion, we found that feelings about the medical encounter (confused or frustrated) were associated with spiritual healing, praying for healing, and asking others to pray for healing. Feeling confused and perception of poor quality of medical care were associated with consulting a *curandero*. More research is needed to further explore other measures of quality of care and characteristics of the medical encounter such as physicians' attitudes or behaviors related to spirituality for healing or *curandero* utilization among Latinos.

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