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Validity of Temporal Measures as Proxies for Measuring Acculturation in Asian Indian Survey Respondents

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Abstract

There are few validated acculturation measures for Asian Indians in the U.S. We used the 2004 California Asian Indian Tobacco Survey to examine the relationship between temporal measures and eleven self-reported measures of acculturation. These items were combined to form an acculturation scale. We performed psychometric analysis of scale properties. Greater duration of residence in the U.S., greater percentage of lifetime in the U.S., and younger age at immigration were associated with more acculturated responses to the items for Asian Indians. Item-scale correlations for the 11-item acculturation scale ranged from 0.28–0.55 and internal consistency reliability was 0.73. Some support was found for a two-factor solution; one factor corresponding to cultural activities ($\alpha = 0.70$) and the other to social behaviors ($\alpha = 0.59$). Temporal measures only partially capture the full dimensions of acculturation. Our scale captured several domains and possibly two dimensions of acculturation.

Keywords

Asian Indian; Duration of residence; Acculturation

Introduction

Foreign-born residents, or immigrants, comprise an increasingly significant proportion of the United States (U.S.) population, but have been underserved in public health promotion

[1]. Acculturation to U.S. cultural practices by immigrants is associated with greater likelihood of having chronic health conditions [2]. However, the estimated health impact of acculturation depends on how acculturation is measured [3, 4].

Acculturation was initially conceptualized as a unidirectional process where immigrants acquired the values, practices, and beliefs of their new homeland while simultaneously discarding those from their cultural heritage [5]. More recent views of acculturation acknowledge that immigrants frequently maintain features of their original culture in their personal lives and adapt to their host culture in their public lives [6–8]. Nonetheless, unidirectional measures of acculturation are still widely used [3, 4, 9].

Language preference, country of nativity, and duration of residence in the U.S. are used as proxy measures of acculturation in Latino and Asian immigrant health studies [3, 4]. However, language use may not be an adequate proxy for Asian Indians because many were exposed to English language from an early age in elementary school classes taught in India [10]. Duration of residence in the host country has also been criticized as a proxy measure because the Indian diaspora led to many Asian Indians living in other developed countries where they were exposed to Western cultural values prior to immigrating to the U.S. [11].

Measures that assess several domains of acculturation, such as social relationships, cultural activities, and linguistic preference, are thought to be more valid than proxy measures [12, 13]. However, many scales lack a conceptual framework of acculturation and are rarely used in studies evaluating health behaviors or outcomes because of respondent burden and costs [3]. Given that proxy measures are often the only available indicators of acculturation in many of the data sets routinely used to study the health of Asian Americans, it is important to know how valid they are as measures of acculturation.

The California Asian Indian Tobacco Survey (CAITS) provides an opportunity to evaluate temporal measures of acculturation, such as duration of residence in the U.S. CAITS was a multilingual, population-based assessment of Asian Indians that contains several measures of acculturation. Our objective was to examine the association of temporal measures with self-reported measures of acculturation among Asian Indians, one of the fastest growing ethnic groups in the U.S. [14]. In addition, given that no commonly accepted acculturation scale exists for Asian Indians, we created an acculturation scale using existing survey items and report the properties of the scale.

Methods

Data Source

CAITS was a 27-min multilingual (English, Gujarati, Hindi, or Punjabi) telephone tobacco use and health survey administered to 3,228 adults of Asian Indian background and resident in California in 2004 [15]. Surnames for CAITS were compiled from names from Social Security [16] and through the Vital Statistic Office for the California Department of Health Services from 1998–2002. Using a stratified random sample, CAITS had a household response rate of 67% and randomly selected interviewee response rate of 81% [15]. We

received IRB exemption from the University of California, Los Angeles for these analyses (IRB#12-000582).

Measures

Three temporal measures of acculturation were examined as dependent variables: duration of residence in the U.S., percentage of lifetime in the U.S., and age at immigration. Duration of residence in years was calculated by subtracting the survey year from the year the respondent entered the U.S. Percentage of lifetime was calculated from duration of residence in the U.S. divided by respondent's current age, and age at immigration was calculated from year entered the U.S. minus the respondent's birth year. These measures were only answered by foreign-born respondents (90% of the sample).

Acculturation measures were 11 questions that represented six aspects of acculturation: language use, media behavior, social customs, social contacts, cultural identity, and generational status. These items have been included in existing scales of acculturation [9, 12, 13]. Table 1 provides a description of the core items and possible responses. "Language of the interview" was dichotomized into English or Asian Indian language. "How open would you be to your son marrying outside of cultural group" and "How open would you be to your daughter marrying outside of cultural group?" correlated at r=0.95. To deal with local dependency, we generated a new variable "How open would you be to your child marrying outside of cultural group" using the average of the two responses. Of note, respondents were not given a definition or characteristics of a cultural group prior to their response. "Nativity" (born in a developed versus non-developed country) and "Generational status" correlated at r=0.75 and responses from both questions were averaged together as a single item.

Analysis Plan

First, we examined the mean number of years lived in the U.S., mean percentage of lifetime in the U.S., and mean age at immigration by responses to the acculturation items. Responses to the acculturation items were analyzed both in their original categories and after dichotomization, but we only report the former because the results were similar. We also conducted standard contingency table analysis to identify meaningful temporal measure cutoff points that differed between more American acculturated responses and less acculturated responses [17]. The reference category was a dichotomized acculturation item and the classification category was the temporal measure [17]. Acculturation items were dichotomized as 0 for less acculturated or 1 for more acculturated to American culture. For example, responses for "how often do you keep in contact with family and friends in India?" were dichotomized into those who responded "very often," "somewhat often," or "neither often or rarely" versus those who responded "somewhat rarely" or "very rarely". We used a specificity cut point 0.70.

Second, we conducted exploratory factor analyses to evaluate the dimensionality of the items in the overall acculturation scale [18]. Several factor criteria (Guttman's weakest lower bound, scree plot, eigenvalue >1, and parallel analysis) were examined to help determine the number of factors. Oblique factor rotations were then run for the plausible

number of underlying factors. Confirmatory factor analysis was conducted to evaluate the fit of alternative models for the data. The goodness-of-fit of the confirmatory factor analysis models was evaluated using the Chi square statistic, the comparative fit index (CFI), and the root mean squared error of approximation (RMSEA). Models with a CFI of 0.90 and RMSEA 0.06 may be considered acceptable [18, 19].

Third, we transformed linearly the recoded 11 acculturation scale items to a 0–100 possible range. For example, the item "how often do you speak your native language at home?" had five response categories labeled 1 through 5 that were recoded to 0, 25, 50, 75, 100 (Table 1). The 11 items were then averaged together to produce the scale score. Item descriptives, item-scale correlations, internal consistency reliability (coefficient alpha), and Pearson product-moment correlations of the scale with the temporal measures were estimated.

Post-stratification weights were used in the analyses to correct for non-coverage (surname omitted from sampling frame) and differential non-response. The post-stratification adjustments were stratified by gender and age grouping, and counties were grouped by 12 California regions used in previous tobacco control research [15]. The analyses were conducted using STATA 11.2.

Results

Sample Demographics

The average age of the sample was 37 years (Table 2). Most respondents were male and well-educated. Foreign-born respondents had a mean duration of residence in the U.S. of 13 years, or one-third of their lifetime spent in the U.S. The median age at immigration to the U.S. was 25 years old.

Construct Validity of Temporal Measures

In general, greater duration of residence in the U.S., greater percentage of lifetime in the U.S., and younger age at immigration were associated with endorsing items indicative of increased acculturation (Table 3). Specifically, with increasing duration of residence in the U.S., Asian Indian immigrants were more likely to prefer English as their primary language (mean duration 10.7 years for non-English as primary language versus mean duration 14.4 years for English as primary language, p < 0.001) and as their preferred language used in the interview (9.9 years for non-English interview vs. 12.8 years for English interview, p < 0.001). Asian Indian immigrants who had lived for a greater duration in the U.S. were less likely to speak their native language at home (*very often* for 11 years vs. *very rarely* for 18 years, p < 0.001), read Indian media (*very often* for 10 years vs. *very rarely* for 15 years, p < 0.001), observe traditional cultural or religious holidays (*almost always* for 12 years vs. *rarely or never* for 14 years, p < 0.001), and stay in contact with family and friends in India (*very often* for 10 years vs. *very rarely* for 18 years, p < 0.001). Living more years in the U.S. was significantly associated with second or greater generational status and with respondent birth in a developed country.

There was a non-linear relationship between frequency of Indian food consumption or openness to respondent's child marrying outside the cultural group and duration of residence

in the U.S. Small sample sizes in some response categories may explain the lack of a linear relationship; inappropriate measures of acculturation for Asian Indians may be another explanation. For example, marriage outside of a cultural group may have been interpreted as marriage to someone of Indian descent but of a different Indian language/culture/religion, as opposed to marriage to someone of a different race/ethnicity.

Contingency table analysis suggested a meaningful cutoff at 12-16 years duration of residence in the U.S. and 34-40% for percentage of lifetime in the U.S. between respondents who were more versus less acculturated to American culture. Product-moment correlations between self-reported acculturation items and duration of residence in the U.S. ranged from r = 0.05 for generational status to r = 0.32 for ethnic identity. Correlations of percentage of lifetime in the U.S. with acculturation items ranged from r = 0.10 for marriage of child outside cultural group to r = 0.54 for generational status. Age at immigration had a negative linear relationship with most acculturation items except native language spoken at home, frequency of Indian food consumption, and contacts with family and friends in India. Correlations between acculturation items and age at immigration ranged from r = -0.04 for contact with family and friends in India to r = -0.42 for generational status. Age at immigration had a meaningful cut-off at 29-31 years of age between the more versus less acculturated respondents. We would expect measures that assess acculturation domains to be negatively correlated with age at immigration because acculturation varies depending on whether the immigrant arrived as an adult or as a child, with the latter group more closely resembling the native-born population reportedly due to less exposure and ties to their country of origin [20].

Acculturation Scale

Various factor criteria suggested that between 2 and 4 factors were sufficient to explain most of the shared variance. Simple structure was optimized for the two-factor Promax obliquely rotated solution (Table 4). The estimated correlation between the two factors was 0.23: Factor 1 appears to represent frequency of engaging in Indian cultural behaviors (home language preference, preference for Indian media, preference for Indian food, Indian social contacts, ethnic identity, and generational status) and Factor 2 corresponds to the influence of Indian culture on social behaviors in the U.S. (English preference and use in interview, and two social customs of observance of traditional holidays and openness to child marrying outside of cultural group). To improve model fit, we estimated five correlated errors suggested by Lagrange multiple indices. Factor loadings were statistically significant and moderate to large in size (Table 5). The CFI for the two-factor model was 0.89 and the RMSEA was 0.07, suggestive of an acceptable fit [16, 17].

Despite some evidence of two potential domains underlying the 11 acculturation items, internal consistency reliability estimates were only 0.70 for engagement in Indian cultural behaviors and 0.59 for influence of Indian culture on social behaviors in the U.S. scales. Internal consistency reliability for the 11-item scale was 0.73 and item-scale correlations (corrected for item overlap with the total) ranged from 0.28–0.55 (Table 6). The 11-item acculturation scale had a mean of 39 and a standard deviation of 17, skewness was 0.45, and kurtosis of 3.04. The CFI for the one-factor model was 0.65 and the RMSEA was 0.10,

indices suggesting suboptimal fit [16, 17]. Product-moment correlations of the scale with duration of residence in the U.S. was r = 0.37, with percentage of lifetime in the U.S. was r = 0.45, and with age at immigration was r = -0.34; p < 0.001 for correlations. There was a linear relationship between the acculturation scale score and duration of residence in the U.S. (Fig. 1).

Discussion

This study examined the associations of temporal measures with direct measures of acculturation among Asian Indians. While temporal measures may only partially capture acculturation, duration of residence or percentage of lifetime in the U.S. may be better proxies for acculturation than English preference or country of nativity for this population. Studies of Asians Indians cannot rely on language use as a proxy for acculturation because large majorities of Asian Indian immigrants are proficient English speakers [10, 21]. Additionally, Asian Indians who immigrate to the U.S. may have spent significant time in a Westernized country prior to immigration to the U.S., although we were not able to quantify that percentage in our sample except for nativity in a developed country [11].

Our study had several limitations. We developed a shorter acculturation scale than those used in the literature for Asians, with nonetheless acceptable reliability for group measurements, but not for individual level measurement [22]. Our scale was predicated on a unidirectional process of acculturation, or a linear relationship between moving from one cultural identity (e.g., ethnic identity) to the other (e.g., mainstream cultural identity) over time [5]. While the strength of this assimilation model of acculturation is its simplicity, this model has been criticized for not allowing ethnic minorities to have bicultural identities, despite the fact that many ethnic minorities describe themselves as such [7, 8, 23]. As previously mentioned, temporal measures of acculturation have also been criticized. However, proxy measurement and unidirectional scales continue to be widely used in immigrant health research because of the practical and financial challenges of using more indepth psychometric scales and lack of a sound theoretical approach to acculturation-related health research [24, 25].

Despite these limitations, the 11-item scale captured the breadth of acculturation. The correlations of the scale were comparable to previously reported correlations of the 21-item Suinn-Lew Asian Self-Identity Acculturation Scale (SL-ASIA) with duration of residence in the U.S. (r = 0.45 versus SL-ASIA, r = 0.56) and age at immigration (r = -0.34 vs. SL-ASIA, r = -0.49) [13].

Some have criticized the use of acculturation in health research given the conceptual and methodological difficulties with the construct, as well as its limitation as a modifiable factor in health promotion [26, 27]. Given these concerns, studies examining acculturation and healthcare should also account for modifiable access and utilization indicators, such as health insurance coverage, usual source of care, patient-provider communication, and socioeconomic status [27]. Specifically for Asian Indians who may be insular in their social activities and cultural practices, a greater understanding of these variables may be useful in explaining health outcomes in this growing minority population.

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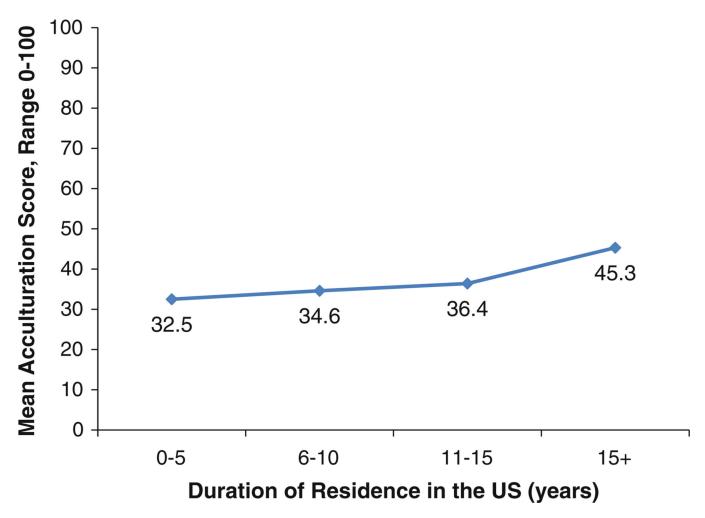


Fig. 1.

Mean acculturation score by duration of residence in the U.S. among Asian Indian immigrants. Higher acculturation score correlates with greater acculturation to American culture

Table 1

Acculturation Scale core items, lower-level domains, and responses

Items	Responses
Language use	
1. English as primary language	1 = No
	2 = Yes
2. How often native language spoken at home?	1 = Very often
	2 = Somewhat often
	3 = Neither often nor rarely
	4 = Somewhat rarely
	5 = Very rarely
3. Language of interview	1 = Hindi, Punjabi, Gujarati
	2 = English
Media behavior	-
4. How often do you read Indian newspapers, magazines, books?	1 = Very often
	2 = Somewhat often
	3 = Neither often nor rarely
	4 = Somewhat rarely
	5 = Very rarely
Social customs	, ,
5. How often do you eat Indian food?	1 = Very often
	2 = Somewhat often
	3 = Neither often nor rarely
	4 = Somewhat rarely
	5 = Very rarely
6. How open are you to your child marrying outside of cultural group?	1 = Strongly against
	2 = Moderately against
	3 = Neither open or against
	4 = Moderately open
	5 = Very open
7. Do you observe the traditional holidays in your culture/religion?	1 = Yes, almost always
	2 = Yes, much of the time
	3 = Yes, some of the time
	4 = No, rarely or never
Social contacts	
8. How often do you keep in contact with family/friends in India?	1 = Very often
	2 = Somewhat often
	3 = Neither often nor rarely
	4 = Somewhat rarely
	5 = Very rarely
Ethnic identity	• •
9. What is your cultural identity?	1 = Full-Indian
•	

Items	Responses
	2 = Indian first-American second
	3 = Equal blend of Indian-American
	4 = American first-Indian second
	5 = Full American
Generational status	
10. What is your generational status?	1 = 1st generation
	2 = 2nd+generation
11. Were you born in a developed country?	1 = No
	2 = Yes

 $\label{eq:Table 2} \textbf{Table 2}$ Characteristics of Asian Indian adults in the CAITS dataset, $n=3{,}228$

	n	% or median, mean	Range
Age, median, mean +/- SD (range)	3,199	35 years, 37 years +/- 13	(18-88)
Sex			
Male	1,782	52%	
Female	1,446	48%	
Marital status			
Married	2,502	73%	
Not married	711	27%	
Education level			
High school graduate	350	12%	
> High school graduate	2,872	88%	
Temporal measures ^a			
Duration of residence in U.S., median, mean +/- SD (range)	2,951	9 years, 13 years +/- 10	(0-56)
Proportion of lifetime in U.S., median, mean +/- SD (range)	2,951	26%, 32% +/- 22	(0-100)
Age at immigration, median, mean +/- SD (range)	2,951	25 years old, 26 years old +/- 11	(0-75)

Categories may not sum to total N or 100% due to missing observations or rounding

Survey sampling weights applied to percentage of sample

 $^{^{\}it a}{\rm Temporal}$ measures answered only by foreign-born respondents or 90% of parent sample

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Table 3

	% sample	Mean duration in U.S. (years)	Correlation with duration	Mean % lifetime in U.S.	Correlation with % lifetime	Mean age at immigration (years)	Correlation with age at immigration
Language use							
English as primary language							
Yes	48	14.4 (13.8,15.0)	0.21	37.8 (36.3, 39.4)	0.26	22.6 (22.0, 23.2)	-0.23
No	52	10.7 (10.2,11.2)		26.9 (25.8, 28.0)		27.8 (27.2, 28.5)	
How often native language spoken at home?	at home?						
Very often	99	10.7 (10.2, 11.1)	0.28	27.7 (26.7, 28.7)	0.27	26.9 (26.3, 27.4)	-0.17
Somewhat often	18	14.4 (13.3, 15.4)		37.4 (34.7, 40.0)		23.4 (22.3, 24.5)	
Neither often nor rarely	3	14.7 (12.6, 16.8)		39.9 (34.4, 45.5)		21.9 (19.4, 24.4)	
Somewhat rarely	9	18.8 (16.6, 20.9)		47.2 (42.0, 52.4)		20.3 (18.3, 22.2)	
Very rarely	9	18.3 (16.2, 20.5)		41.7 (37.6, 45.8)		22.7 (21.1, 24.2)	
Language of interview							
English	68	12.8 (12.4,13.3)	0.11	33.7 (32.6, 34.7)	0.18	23.7 (23.3, 24.1)	-0.36
Hindi, Punjabi, Gujarati	11	9.9 (9.0, 10.7)		22.0 (20.2, 23.7)		36.5 (34.8, 38.2)	
Media behavior							
How often do you read Indian media?	lia?						
Very often	28	10.1 (9.5, 10.8)	0.21	25.7 (24.5, 27.0)	0.24	27.2 (26.4, 28.0)	-0.13
Somewhat often	25	11.5 (10.7, 12.2)		29.6 (27.8, 31.4)		25.9 (25.1, 26.8)	
Neither often nor rarely	9	13.3 (11.8, 14.9)		35.0 (31.1, 39.0)		25.1 (22.8, 27.3)	
Somewhat rarely	15	13.9 (12.8, 15.0)		36.6 (33.9, 39.4)		23.7 (22.4, 25.0)	
Very rarely	26	15.4 (14.5, 16.3)		39.9 (37.8, 42.1)		23.0 (21.9, 24.0)	
Social customs							
How often do you eat Indian food?							
Very often	81	11.8 (11.4, 12.2)	0.15	30.4 (29.4, 31.3)	0.17	26.1 (25.6, 26.6)	-0.14
Somewhat often	14	16.0 (14.6, 17.3)		41.4 (38.1, 44.7)		21.2 (19.9, 22.5)	
Neither often nor rarely	2	16.4 (13.4, 19.5)		44.4 (36.8, 52.0)		20.2 (17.1, 23.3)	
Somewhat rarely	2	16.2 (12.4, 19.9)		46.5 (35.3, 57.6)		18.0 (14.5, 21.4)	
Very raraly	-	13.8 (9.2, 18.5)		35.2 (26.7, 43.8)		22.8 (18.5.27.1)	

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Openness to child marrying outside group? Very open 36 14.3 (13.6, 15.1) 0.10 36.7 (349.38.6) 0.10 23.5 (22.7.24.3) -0.14 Modernetly open 28 11.4 (10.7, 12.2) 3.15 (20.2.33.8) 2.5 (24.7.27.2) -0.14 Modernetly open 29 12.0 (10.7, 13.3) 3.0 (27.8, 34.1) 2.7 (25.4.29.1) Modernetly against 9 12.0 (10.7, 13.3) 3.0 (27.4, 33.5) 2.7 (26.4.29.1) Strongly against 9 12.0 (10.7, 12.8) 3.0 (27.4, 33.5) 2.7 (26.4.29.1) Note much of the time 23 12.0 (11.2, 12.8) 3.0 (20.4, 33.2) 2.5 (24.5, 26.5) Not much of the time 23 12.0 (11.2, 12.8) 3.0 (20.4, 33.2) 2.5 (24.5, 26.5) Not much of the time 23 12.0 (11.2, 12.8) 3.0 (20.4, 33.2) 2.5 (24.5, 26.5) Not much of the time 24 14.0 (11.2, 12.8) 3.0 (20.4, 33.2) 2.5 (24.5, 26.5) Not much of the time 25 12.0 (11.2, 12.8) 3.0 (20.4, 33.2) 2.5 (24.5, 26.5) Not much of the time 27 12.0 (11.2, 12.8) 3.0 (20.4, 33.2) 2.5 (24.5, 26.5) Not much of the time 28 12.0 (11.2, 12.8) 3.0 (20.4, 33.2) 2.5 (24.5, 26.5) Not much of the time 29 12.0 (11.2, 12.8) 3.0 (20.4, 33.2) 2.5 (24.5, 26.5) Not much of the time 20 12.0 (11.2, 12.8) 3.0 (20.4, 33.2) 2.5 (24.2, 26.4) Not much of the time 21 14.4 (13.1, 15.7) 3.0 (24.2, 30.1) 2.2 (21.2, 27.7) Not much of the time 22 12.0 (11.2, 12.8) 3.0 (24.2, 26.1) 3.0 (24.2, 26.1) Notither often in contact with family/friends in Indian? 12 12.0 (11.2, 12.8) 3.0 (24.2, 26.2) 3.0 (21.2, 26.5) 3.0 (21.2, 26.5) 3.0 (21.2, 26.5) 3.0 (21.2, 26.5) 3.0 (21.2, 26.5) 3.0 (21.2, 26.5) 3.0 (21.2, 26.5) 3.0 (21.2, 26.5) 3.0 (21.2, 26.5) 3.0 (21.2, 26.5) 3.0 (21.2, 26.5) 3.0 (21.2, 26.5) 3.		% sample	Mean duration in U.S. (years)	Correlation with duration	Mean % lifetime in U.S.	Correlation with % lifetime	Mean age at immigration (years)	Correlation with age at immigration
96 13 (136, 151) 0.10 36,7 (349,386) 0.10 235, (227, 24.3) 96 12 (100,128) 315, (292,33.8) 259, (247, 27.2) 96 12 (100,128) 315, (292,33.8) 259, (247, 27.2) 96 12 (100,128) 315, (292,33.8) 310, (252,2.2) 116 (105,12.8) 310, (274,33.5) 310, (252,2.2) 116 time	Openness to child marrying outside	group?						
oragainst 28 11.4 (10.7, 12.8) 29.3 (27.7, 31.0) c. 35.1 (245, 25.8) oragainst 17 11.9 (11.0, 12.8) 31.5 (29.2, 33.8) 25.9 (247, 27.2) inst 9 12.0 (10.7, 13.3) 30.9 (27.8, 34.1) 27.2 (25.4, 29.1) inst 9 11.6 (10.5, 12.8) 30.4 (27.4, 33.5) 27.9 (260, 29.8) traditional holidays? 31 11.9 (11.2, 12.8) 31.3 (29.4, 33.2) 27.9 (260, 29.8) the time 23 12.0 (11.2, 12.8) 31.3 (29.4, 33.2) 25.5 (24.5, 26.5) the time 32 12.8 (11.2, 12.8) 32.9 (31.2, 34.6) 24.4 (37.7, 25.1) inst	Very open	36	14.3 (13.6, 15.1)	0.10	36.7 (34.9, 38.6)	0.10	23.5 (22.7, 24.3)	-0.14
or against 17 11.9 (11.0, 12.8) 31.5 (29.2, 33.8) 259 (247, 72.7) inst inst 1.9 (11.0, 12.8) 30.9 (27.8, 34.1) 20.9 (27.8, 34.1) 30.9 (27.8, 34.1) 27.2 (25.4, 29.1) inst 1.9 (11.0, 12.8) 30.4 (27.4, 33.5) 27.9 (26.0, 29.8) 27.0 (11.2, 12.8) 37.1	Moderately open	28	11.4 (10.7, 12.2)		29.3 (27.7, 31.0)		25.1 (24.5, 25.8)	
inst birdinist b	Neither open or against	17	11.9 (11.0, 12.8)		31.5 (29.2, 33.8)		25.9 (24.7, 27.2)	
Inst traditional holidays? Fractitional holidays. Fr	Moderately against	6	12.0 (10.7, 13.3)		30.9 (27.8, 34.1)		27.2 (25.4, 29.1)	
traditional holidays? 33 11.9 (11.2, 12.6) 0.10 30.8 (29.1, 32.5) 0.11 267 (25.8, 27.6) true time 23 1.20 (11.2, 12.8) 31.3 (29.4, 33.2) 25.5 (24.5, 26.5) true time 32 1.2.8 (11.2, 12.8) 32.9 (31.2, 34.6) 244 (23.7, 25.1) never 12 1.4.4 (13.1, 15.7) 36.8 (33.9, 40.0) 22.9 (21.7, 24.2) never 21 1.4.4 (13.1, 15.7) 36.8 (33.9, 40.0) 22.9 (21.7, 24.2) contact with family/friends in India? 37.0 (3.7, 10.0) 26.7 (25.8, 27.7) 36.8 (33.9, 40.0) 22.9 (21.7, 24.2) ten 23 1.4.9 (14.0, 15.8) 37.0 (34.9, 39.1) 25.1 (24.1, 26.1) rely 7 1.7.2 (15.4, 19.0) 43.5 (39.0, 48.0) 22.8 (19.3, 26.3) rely 7 1.7.2 (15.4, 19.0) 43.5 (39.0, 48.0) 22.8 (19.3, 26.3) rely 7 1.7.2 (15.4, 19.0) 43.5 (39.0, 48.0) 22.8 (19.3, 26.3) rely 1.7.2 (15.4, 19.0) 22.2 (30.2, 22.8) 22.9 (21.2, 27.7) cultural identity 24.4 (13.8, 15.0) 36.4 (35.0, 37.8)	Strongly against	6	11.6 (10.5, 12.8)		30.4 (27.4, 33.5)		27.9 (26.0, 29.8)	
with any statement 33 11.9 (11.2, 12.8) 0.10 30.8 (29.1, 32.5) 0.11 267 (25.8, 27.6) the time 32 1.20 (11.2, 12.8) 31.3 (29.4, 33.2) 25.5 (24.5, 26.5) the time 32 1.2.8 (11.2, 12.8) 36.8 (33.9, 40.0) 22.9 (21.7, 24.2) never 12 1.4.4 (13.1, 15.7) 36.8 (33.9, 40.0) 22.9 (21.7, 24.2) contact with family/friends in India? 57 10.2 (9.7, 10.6) 0.26 26.7 (25.8, 27.7) 0.28 25.9 (21.7, 24.2) then 23 1.4.9 (14.0, 15.8) 37.0 (34.9, 39.1) 22.8 (19.3, 26.4) 22.8 (19.3, 26.3) reby 7 1.7.2 (15.4, 19.0) 43.5 (39.0, 48.0) 24.9 (22.2, 27.7) reby 7 1.7.2 (15.4, 19.0) 46.2 (42.1, 50.3) 22.5 (20.4, 24.7) untractan second 16 1.2.3 (11.3, 13.2) 32.7 (30.3, 35.2) 24.9 (22.8, 27.4) untractan second 16 1.2.3 (11.3, 13.2) 32.4 (35.0, 37.8) 24.9 (22.4, 26.6) n 4 18.7 (16.3, 11.2, 12.2) 42.2 (37.1, 47.3) 23.7 (20.8, 26.6)	Observance of traditional holidays'	<i>`</i>						
the time 32 12.0 (11.2, 12.8) 31.3 (29.4, 33.2) 25.5 (245, 26.5) 1.2.8 (11.2, 12.8) 32.9 (31.2, 34.6) 24.4 (23.7, 25.1) never 12 14.4 (13.1, 15.7) 36.8 (33.9, 40.0) 22.9 (21.7, 24.2) 24.4 (23.7, 25.1) never 12 14.4 (13.1, 15.7) 25.1 (12.2, 12.8) 25.2 (21.7, 24.2) 25.1 (12.2, 12.8)	Yes, almost always	33	11.9 (11.2, 12.6)	0.10	30.8 (29.1, 32.5)	0.11	26.7 (25.8, 27.6)	-0.12
rube time 32 128 (11.2, 12.8) 36.8 (33.9, 40.0) 244 (23.7, 25.1) never 12 144 (13.1, 15.7) 36.8 (33.9, 40.0) 26.0 144 (13.1, 15.7) 36.8 (33.9, 40.0) 26.0 144 (13.1, 15.7) 36.8 (33.9, 40.0) 26.0 144 (13.1, 15.7) 36.8 (33.9, 40.0) 26.0 12.9 (21.7, 24.2) 27.1 (10.2) 27.1 (Yes, much of the time	23	12.0 (11.2, 12.8)		31.3 (29.4, 33.2)		25.5 (24.5, 26.5)	
never 12 14.4 (13.1, 15.7) 36.8 (33.9, 40.0) 22.9 (21.7, 24.2) contact with family/friends in India? 57 10.2 (9.7, 10.6) 0.26 26.7 (25.8, 27.7) 0.28 25.9 (25.4, 26.4) lten 23 14.9 (14.0, 15.8) 37.0 (34.9, 39.1) 25.1 (24.1, 26.1) arely 4 15.7 (13.5, 18.0) 43.2 (36.6, 49.7) 22.8 (19.3, 26.3) arely 7 17.2 (15.9, 19.0) 43.5 (39.0, 48.0) 24.9 (22.2, 27.7) 24.1 (21.5, 19.0) 24.2 (21.5, 20.3) 24.0 (22.5, 27.7) 24.1 (21.5, 19.0) 24.2 (21.5, 20.3) 24.3 (22.5, 27.4) 24.2 (21.5, 20.3) 24.3 (23.3, 25.2) 24.3 (23.3, 26.1) 24.4 (13.8, 15.0) 24.1 (38.2, 36.1) 24.1 (38.2, 36.1) 24.1 (15.0, 19.2) 24.1 (13.3, 18.0) 25.1 (14.3, 25.3) 24.1 (13.3, 18.0) 25.1 (14.3, 25.3) 24.1 (13.3, 18.0) 25.1 (14.3, 25.3) 25.1 (14.3, 25.3) 25.1 (14.3, 25.3) 25.1 (14.3, 25.3) 25.1 (14.3, 25.3) 25.1 (14.3, 25.3) 25.1 (14.3, 25.3) 25.1 (14.3, 25.3) 25.1 (14.3, 25.3) 25.1 (14.3, 25.3) 25.1 (14.3, 25.3) 25.1 (14.3, 25.3) 25.1 (14.3, 25.3) 25.1 (14.3, 25.3) 25.1 (14.3, 25.3) 25.1 (14.3, 25.3) 25.1 (14.3, 25.2) 25.1 (14.3, 25.2) 25.2 (25.2, 26.2) 25.1 (25.2, 26.2)	Yes, some of the time	32	12.8 (11.2, 12.8)		32.9 (31.2, 34.6)		24.4 (23.7, 25.1)	
contact with family/friends in India? 57 10.2 (9.7, 10.6) 0.26 26.7 (25.8, 27.7) 0.28 25.9 (25.4, 26.4) fren	No, rarely or never	12	14.4 (13.1, 15,7)		36.8 (33.9, 40.0)		22.9 (21.7, 24.2)	
act with family/friends in India? 57 10.2 (9.7, 10.6) 0.26 26.7 (25.8, 27.7) 0.28 25.9 (25.4, 26.4) 58 14.9 (14.0, 15.8) 37.0 (34.9, 39.1) 25.1 (24.1, 26.1) rarely	social contacts							
rarely 4 1.02 (9.7, 10.6) 0.26 26.7 (25.8, 27.7) 0.28 25.9 (25.4, 26.4) rarely 4 1.57 (13.5, 18.0) 37.0 (34.9, 39.1) 25.1 (24.1, 26.1) rarely 4 1.57 (13.5, 18.0) 43.2 (36.6, 49.7) 22.8 (19.3, 26.3) rarl identity 4 17.2 (15.9, 19.0) 46.2 (42.1, 50.3) 22.5 (20.4, 24.7) rarl identity 24 7.6 (7.1, 8.1) 0.32 21.5 (20.2, 22.8) 0.30 26.6 (25.8, 27.4) rican second 16 12.3 (11.3, 13.2) 32.7 (30.3, 35.2) 24.9 (24.1, 25.6) rdian second 6 17.1 (15.0, 19.2) 42.2 (37.1, 47.3) 24.9 (24.1, 25.6) dcountry 10 15.6 (13.3, 18.0) 0.05 51.1 (43.5, 58.6) 0.14 15.0 (12.5, 17.5) eloped country 90 12.3 (11.9, 12.7) 31.4 (30.4, 32.3) 25.7 (25.2, 26.2) 25.7 (25.2, 26.2)	How often in contact with family/f	riends in In	dia?					
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rarely 4 15.7 (13.5, 18.0) 43.2 (36.6, 49.7) 22.8 (19.3, 26.3) (13.5, 18.0) 43.5 (39.0, 48.0) 24.9 (22.2, 27.7) 24.5 (15.9, 19.0) 45.5 (39.0, 48.0) 24.9 (22.2, 27.7) 24.5 (15.9, 19.0) 46.2 (42.1, 50.3) 22.5 (20.4, 24.7) 24.7 (7.1, 8.1) 0.32 21.5 (20.2, 22.8) 0.30 26.6 (25.8, 27.4) 24.7 (23.8, 26.1) 24.4 (13.8, 15.0) 36.4 (35.0, 37.8) 24.9 (23.8, 26.1) 24.4 (13.8, 15.0) 36.4 (35.0, 37.8) 24.9 (24.1, 25.6) 24.1 (15.0, 19.2) 42.2 (37.1, 47.3) 23.9 (21.4, 26.5) 24.1 (16.3, 21.2) 44.1 (38.2, 50.1) 23.7 (20.8, 26.6) 24.1 (25.1, 25.6) 24.1 (25.1, 25.6) 25.1 (20.8, 26.6) 25.1 (25.1, 27.5) 25.1 (20.8, 26.2) 25.2 (20.8, 23.3) 25.7 (25.2, 26.2) 25.2 (20.8, 23.3) 25.7 (25.2, 26.2) 25.2 (20.8, 26.2)	Somewhat often	23	14.9 (14.0, 15.8)		37.0 (34.9, 39.1)		25.1 (24.1, 26.1)	
ral identity 243.5 (39.0, 48.0) 46.2 (42.1, 50.3) 24.9 (22.2, 27.7) ral identity 24 7.6 (7.1, 8.1) 0.32 21.5 (20.2, 22.8) 0.30 26.6 (25.8, 27.4) rican second 16 12.3 (11.3, 13.2) 32.7 (30.3, 35.2) 24.9 (23.8, 26.1) rican second 6 17.1 (15.0, 19.2) 42.2 (37.1, 47.3) 24.9 (24.1, 25.6) rican second 6 17.1 (15.0, 19.2) 44.1 (38.2, 50.1) 23.7 (20.8, 26.6) rican second 6 17.1 (15.0, 19.2) 44.1 (38.2, 50.1) 23.7 (20.8, 26.6) rican second 6 17.1 (15.0, 19.2) 44.1 (38.2, 50.1) 23.7 (20.8, 26.6) rican second 10 15.6 (13.3, 18.0) 0.05 51.1 (43.5, 58.6) 0.14 15.0 (12.5, 17.5) rican second 10 15.5 (13.3, 18.0) 0.05 51.1 (43.5, 58.6) 0.14 15.0 (12.5, 17.5)	Neither often nor rarely	4	15.7 (13.5, 18.0)		43.2 (36.6, 49.7)		22.8 (19.3, 26.3)	
ral identity tral identity 24 7.6 (7.1, 8.1) an-American 50 14.4 (13.8, 15.0) dian second 6 17.1 (15.0, 19.2) d country 10 15.6 (13.3, 18.0) and the initial identity 4 18.7 (16.3, 21.2) and the initial identity 5 10 15.6 (13.3, 18.0) and the initial identity an	Somewhat rarely	7	17.2 (15.4, 19.0)		43.5 (39.0, 48.0)		24.9 (22.2, 27.7)	
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ral identity 24 7.6 (7.1, 8.1) 0.32 21.5 (20.2, 22.8) 0.30 26.6 (25.8, 27.4) rican second 16 12.3 (11.3, 13.2) 32.7 (30.3, 35.2) 24.9 (23.8, 26.1) an-American 50 14.4 (13.8, 15.0) 36.4 (35.0, 37.8) 24.9 (24.1, 25.6) dian second 6 17.1 (15.0, 19.2) 42.2 (37.1, 47.3) 23.9 (21.4, 26.5) dian second 7 18.7 (16.3, 21.2) 44.1 (38.2, 50.1) 23.7 (20.8, 26.6) decountry 10 15.6 (13.3, 18.0) 0.05 51.1 (43.5, 58.6) 0.14 15.0 (12.5, 17.5) eloped country 90 12.3 (11.9, 12.7) 31.4 (30.4, 32.3) 25.7 (25.2, 26.2)	3thnic identity							
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an-American 50 144 (13.8, 15.0) 36.4 (35.0, 37.8) 24.9 (24.1, 25.6) adian second 6 17.1 (15.0, 19.2) 42.2 (37.1, 47.3) 23.9 (21.4, 26.5) d country 1 18.7 (16.3, 21.2) 44.1 (38.2, 50.1) 23.7 (20.8, 26.6) d country 10 15.6 (13.3, 18.0) 0.05 51.1 (43.5, 58.6) 0.14 15.0 (12.5, 17.5) eloped country 90 12.3 (11.9, 12.7) 31.4 (30.4, 32.3) 25.7 (25.2, 26.2)	Indian first-American second	16	12.3 (11.3, 13.2)		32.7 (30.3, 35.2)		24.9 (23.8, 26.1)	
dian second 6 17.1 (15.0, 19.2) 42.2 (37.1, 47.3) 23.9 (21.4, 26.5) 44.1 (38.2, 50.1) 23.7 (20.8, 26.6) 44.1 (38.2, 50.1) 23.7 (20.8, 26.6) d country 10 15.6 (13.3, 18.0) 0.05 51.1 (43.5, 58.6) 0.14 15.0 (12.5, 17.5) eloped country 90 12.3 (11.9, 12.7) 31.4 (30.4, 32.3) 25.7 (25.2, 26.2)	Equal blend Indian-American	50	14.4 (13.8, 15.0)		36.4 (35.0, 37.8)		24.9 (24.1, 25.6)	
d country 10 15.6 (13.3, 18.0) 10 15.6 (13.3, 18.7) 31.4 (30.4, 32.3) 44.1 (38.2, 50.1) 23.7 (20.8, 26.6) 23.7 (20.8, 26.6) 25.7 (20.8, 26.6) 31.4 (30.4, 32.3) 31.4 (30.4, 32.3) 32.7 (20.8, 26.2)	American first-Indian second	9	17.1 (15.0, 19.2)		42.2 (37.1, 47.3)		23.9 (21.4, 26.5)	
d country 10 15.6 (13.3, 18.0) 0.05 51.1 (43.5, 58.6) 0.14 15.0 (12.5, 17.5) eloped country 90 12.3 (11.9, 12.7) 31.4 (30.4, 32.3) 25.7 (25.2, 26.2)	Full American	4	18.7 (16.3, 21.2)		44.1 (38.2, 50.1)		23.7 (20.8, 26.6)	
10 15.6 (13.3, 18.0) 0.05 51.1 (43.5, 58.6) 0.14 15.0 (12.5, 17.5) rri in a developed country 90 12.3 (11.9, 12.7) 31.4 (30.4, 32.3) 25.7 (25.2, 26.2)	Generational status							
10 15.6 (13.3, 18.0) 0.05 51.1 (43.5, 58.6) 0.14 15.0 (12.5, 17.5) untry 90 12.3 (11.9, 12.7) 31.4 (30.4, 32.3) 25.7 (25.2, 26.2)	Nativity							
90 12.3 (11.9, 12.7) 31.4 (30.4, 32.3)	Born in developed country	10	15.6 (13.3, 18.0)	0.05	51.1 (43.5, 58.6)	0.14	15.0 (12.5, 17.5)	-0.16
	Not born in a developed country	06	12.3 (11.9, 12.7)		31.4 (30.4, 32.3)		25.7 (25.2, 26.2)	

	% sample	Mean duration in U.S. (years)	Correlation with duration	Mean % lifetime in U.S.	Correlation with % lifetime	Correlation Mean age with % at immigration lifetime (years)	Correlation with age at immigration
1st generation	88	11.8 (11.5, 12.2)	0.26	29.2 (28.4, 29.9)	0.54	26.5 (26.0, 26.9)	-0.42
2+ generation ^{a}	12	24.6 (23.2, 26.0)		91.1 (89.6, 92.7)		2.3 (1.9, 2.6)	

F test p value <0.0001 for all items except: Duration of residence in U.S.—country of birth with F(1, 2876) = 8.59, p value = 0.0034; Age at immigration—contact with family/friends with F(4, 2917) = 1.84, p value = 0.12 and ethnic identity with F(4, 2847) = 2.12, p = 0.08

^aRespondents who were born abroad but immigrated to the U.S. before age 6 were categorized as 2nd generation, culturally

 Table 4

 Promax obliquely rotated two-factor solution (standardized regression coefficients)

	Factor 1	Factor 2
Social contacts		
8. How often keep in contact with family and friends in India	0.7880	-0.2501
Media Behavior		
4. How often read Indian newspapers, magazines, books	0.6329	-0.0152
Generational status		
10. Generational status/Born in developed country	0.5939	-0.0114
Language use		
2. How often native language spoken at home	0.5278	0.3916
Social customs		
5. How often eat Indian food	0.5016	0.2014
Ethnic identity		
9. Self-assessed cultural identity	0.4821	0.0725
Language use		
3. Language of interview	-0.1503	0.7570
Social customs		
6. How open to child marrying outside cultural group	-0.0703	0.7177
Language use		
1. English as primary language	0.2464	0.5688
Social customs		
7. Do you observe the traditional holidays important in your culture	0.0958	0.5216

Bold values represents substantial factor loading, or loading higher than $0.40\,$

Factor 1: Items 2, 4, 5, 8, 9, 10; Factor 2: Items 1, 3, 6, 7. Factor 1 and 2 correlation is 0.23

Table 5
Standardized parameter estimates for confirmatory factor analytic model

Item	Null (all items)	Factor 1	Factor 2
Factor 1: engagement in Indian cultural behaviors			
2. How often native language spoken at home	0.71	1.00	-
5. How often eat Indian food	0.45	0.60	_
4. How often read Indian newspapers, magazines, books	0.43	0.57	-
10. Generational status/Nativity	0.39	0.52	=
9. Self-assessed cultural identity	0.35	0.50	_
8. How often keep in contact with family and friends in India	0.38	0.49	-
Factor 2: social behaviors in U.S.			
1. English as primary language	0.53	-	1.00
6. How open to child marrying outside cultural group	0.36	-	0.72
$7.\ Do\ you\ observe the traditional holidays important in your culture$	0.37	-	0.72
3. Language of interview	0.34	-	0.55
	Factor 1		Factor 2
Factor 1	1.00		-
Factor 2	0.080		1.00

For the 2-factor model with correlated residuals, the goodness-of-fit df = 29, Chi square = 392.66, CFI = 0.89, RMSEA = 0.7, indicating an acceptable fit. The correlated residuals for Factor 1 were home language preference and preference for Indian food (r = 0.41), frequency of contact with family/friends in India and generational status/nativity (r = 0.32), and preference for Indian media and frequency of contact with family/friends in India (r = 0.33); the correlated residuals for Factor 2 were English fluency and respondent choice of language in the interview (r = 0.35) and interview language and openness of one's child marrying outside one's cultural group (r = 0.33)

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Table 6

Means, SD, and item-scale correlations for the acculturation scale core items treated as a single scale

Item	Proj by s	Proportio by scale	n enc	Proportion endorsed by scale	_	Item	_	Item-scale correlation ^a
	-	7	₆	4	w	Σ	SD	
1. English as primary language	52	48	1	1	ı	53	50	0.47
2. How often native language spoken at home	99	18	3	9	9	17	30	0.55
3. Language of interview	Ξ	68	I	1	I	68	31	0.28
4. How often read Indian newspapers, magazines, books	28	25	9	15	26	46	40	0.39
5. How often eat Indian food	81	4	7	2	_	7	17	0.45
6. How open to child marrying outside cultural group	6	6	17	28	36	89	32	0.34
7. Do you observe the traditional holidays important in your culture	33	23	32	12	I	42	34	0.31
8. How often keep in contact with family and friends in India	57	23	4	7	6	21	32	0.38
9. Self-assessed cultural identity	24	16	50	9	4	38	26	0.36
10. Generational status/nativity	98	14	1	ı	I	13	33	0.40
				Σ	∞	SD	Coef	Coefficient alpha
Scale				39	П	17	0.73	
	l							

^aItem-scale correlations are corrected for overlap. The scale scores were the sum of the 10 items and were formed by linear transformations to a 0–100 distribution. For the 1-factor model, the goodness-offit df = 35, Chi square = 1,002.69, CFI = 0.65, RMSEA = 0.10, indicating a suboptimal fit

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