Conceptions of acculturation: A review and statement of critical issues

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Abstract
This article reviews evidence for reconceptualizing acculturation status and acculturation process in health care research with United States (U.S.) Latino populations. Prior literature on acculturation has focused on: (a) acculturative change towards the dominant culture, (b) acculturation as it occurs with Mexican Americans, and (c) language as the principal component of acculturation. We review empirically based health research on acculturation and propose an ecodevelopmental framework for better understanding the process of acculturation. We then offer recommendations that may assist public health researchers, policymakers and program developers in better understanding "real world" acculturation. This includes understanding acculturation within this ecodevelopmental context for a more complete understanding of the acculturation process and its influences on health-related behaviors, with aims of reducing or eliminating health disparities in Latino populations.

Introduction
Challenges in acculturation research

The field of acculturation research is replete with complexity and ambiguities regarding the conceptualization and measurement of acculturation and in its association with health and well being. Some research has questioned these ambiguities as manifested across different ethnic groups, including: Asian Americans (Salant & Launderdale, 2003), Cambodian refugees (Palinkas & Pickwell, 1995), and Latinos (Rudmin, 2003). Some investigators have even concluded that acculturation should be abandoned in health-related research (Hunt, Schneider, & Comer, 2004). However and by contrast, the processes of migration, sociocultural mobility, and acculturative change are ubiquitous sociocultural processes occurring worldwide. These must be examined to understand health issues and disparities affecting migrant and immigrant populations (Castro & Nieri, 2010). Needed now are theory-driven, in-depth conceptualizations and analyses of the acculturative process and related longitudinal studies and methodologies (Bollen & Curran, 2006; Fuligni, Eccles, Barber, & Clements, 2001) transcending the limitations of cross-sectional assessments of acculturation.

Core issues regarding the construct of acculturation

Acculturation was originally formulated by anthropologists as a group-level phenomenon involving cultural change and adaptation (Boas, 1888). Subsequently, the measurement and analysis of acculturation by psychologists introduced a change in its conceptualization (Cuellar, Arnold, & Maldonado, 1995; Cuellar, Harris & Jasso, 1980) that emphasized an individual level of analysis, thus introducing new approaches—yet also new problems. The present article examines issues in the conceptualization and measurement of acculturation as relevant to U.S. Latino populations, with suggestions for improving acculturation-focused research. This review is conducted using a four-pronged approach by presenting: (a) a historical overview of the concepts of acculturation and how these have been measured; (b) a review of the literature with a focus on existing measures of acculturation; (c) an analysis of emerging issues involving acculturation as relevant to health research; and (d) issues in the role of "contextual" circumstances to better understand "real world" acculturation as a process of sociocultural adaptation. Finally, recommendations will be offered for improving how research involving acculturative processes may be conducted.
Literature review: constructions of acculturation and its measurements

Historical overview of concepts of acculturation

Cultural contact

Cultural change begins with contact between two individuals, groups, two different societies, or among diverse cultural systems. The cultural anthropologist, Herskovitz (1937), contended that any contact resulting in cultural change is best understood by examining both contemporary framing and historical contexts. This approach is corroborated by Glenn and Connell (1988) who also asserted the exploration of historical circumstances and developments will contextualize cultural differences at pre- and post-contact within a given society. These perspectives were further supported by Spiro (1955), a psychological anthropologist, who asserted that setting factors such as social mobility, religious preferences, family values, and personality, all promote acculturation.

Initial conception of acculturation

Generally, acculturation is a sociocultural process in which members of one cultural group adopt the beliefs and behaviors of another group (Hazuza, Sterin, & Halifer, 1988). From this simple definition many issues emerge. For example, acculturation is now regarded as a multi-dimensional process in which individuals and groups undergo stages of adjustment, as well as changes in several domains: in language, socioeconomic status, and/or cultural orientation (including changes in values and attitudes), etc., as they adapt to a new cultural environment (Olmedo, 1979). Sometimes these changes are extreme, particularly when the new host culture or setting consists of a vastly unfamiliar environment (Farver, Narang, & Bhatda, 2002). Unfortunately, researchers have often-used varying conceptions and operationalizations of acculturation, making the term both broader in concept and also more specific (and perhaps more narrow) in terms of how it has been measured (Cuellar et al., 1980). Gordon (1978), for example, divided the process of acculturation into two stages: cultural assimilation and social assimilation. Based on wide-ranging variations in the conceptualization, measurement, and application of the construct of acculturation, conflicting outcomes and conclusions have emerged regarding the effects of acculturation on health-related outcomes. This has created confusion, ambiguity and incoherence in the field of acculturation research (Hunt et al., 2004).

These limitations have led researchers to acknowledge the need to modify and/or extend existing conceptions of acculturation and its measurement to accommodate the extent needs of Latinos who live within diverse, complex and often under-resourced communities (Lara, Gamboa, Kahramanian, Morales, & Bautista, 2005). Gordon’s (1978) conceptualization emphasizes a two-step process whereby the individual must first understand new and unfamiliar cultural values and customs encountered within a new host society, and then assimilates into that new society via involvement in social gatherings, clubs, or institutions (social assimilation). Other scholars have argued that individuals either acculturate, (get involved in a new society with no need for out-group acceptance), or assimilate, get involved in this new society with the need for out-group acceptance (Teske & Nelson, 1974).

More recently, some researchers have viewed the process of acculturation as a continuous process occurring throughout a lifetime (Golden, 1988; Lang, Munoz, Bernall, & Sorenson, 1982). For instance, individuals who migrate to a new country can exercise a multitude of personal preferences that generate a variety of acculturation pathways, including: (a) the avoidance of integration into the new society (separatism); (b) rejecting their native culture in favor of full involvement into the new society (assimilation); and (c) the integration of both cultures into a new blended cultural identity (biculturalism) (Farver et al., 2002; LaFromboise, Coleman, & Gerton, 1993). Berry (1997, 2005) is the major proponent of a two-factor model that hypothesizes these outcomes with the addition of marginalization, which entails no involvement in either the native society or the new host society. However, this model has been criticized, suggesting that these four forms of acculturative change do not actually occur as indicated, and that perceptual, cognitive, social, and emotional processes also influence the manner in which acculturation occurs (Rudmin & Ahmadzadeh, 2001). Other criticisms consider other variations in this process (Rudmin, 2003), including changes in personality (Triandis & Suh, 2002). Although Berry’s individualized model also emphasizes a person’s active choices in their acculturative trajectory, it does not address the influences of major eocdevelopmental contextual variables (e.g., social networks, neighborhood resources, racial or ethnic discrimination) (Wandersman & Nation, 1998), which also can greatly influence an individual’s acculturative trajectory.

Acculturation as measured via a variety of scales

Just as acculturation has been conceptualized from several perspectives, many scales have been developed to measure acculturation. In general, early measures of acculturation consisted of single acculturation items, such as nativity or language (Olmedo, Martinez, & Martinez, 1978), and these indicators focused mainly on Mexican Americans (Cuellar et al., 1980; Franco, 1983) and Cubans (Szapocznik, Scopetta, Kurtines, & Aranalde, 1978). In the 1980s, acculturation research not only considered acculturation as it occurs among various Latino subgroups, but also examined other factors that can change with acculturation (e.g., ethnic pride, ethnic food preferences), thus suggesting a multi-dimensional approach and the greater complexity of acculturation (Burnam, Telles, Karko, Hough, & Escobar, 1987; Marin, Sabogal, Marin, Otero-Sabogal, & Perez-Stable, 1987; Szapocznik et al., 1978). Then, in the 1990s, a bidimensional (two-factor) approach was introduced providing a major change in conceptualizing and measuring acculturation (Berry, 1994; Cortes, Rogler, & Malgady, 1994).

Two-factor models of acculturation

Gottlieb and Beauvais (1991) proposed a two-factor “orthogonal” framework for conceptualizing acculturation, postulating that a person’s involvement included two independent forms of cultural identification: (a) identification with the ethnic minority culture and (b) identification with the mainstream white American culture. In parallel with this approach, Berry (1997) also proposed a two-factor acculturation framework, a model with four possible acculturation outcomes: (a) marginalization (low affiliation with both cultures); (b) separation (high origin-culture affiliation, low new-culture affiliation); (c) assimilation (high new-culture affiliation, low origin-culture affiliation); and (d) integration (high affiliation with both cultures). This two-factor reframing of acculturation has been useful, although it also has been criticized, in part for its lack of clarity over dimensional and categorical conceptions of these dimensions, and for its limitations in the production of substantive data that supports the contentions of this two-factor model. For example, the political, economic, and social contexts of an immigrant’s country of origin introduce important contextual information to the study of acculturation, as they inform why individuals leave their country as well as how they will adapt in a new environment (Cabassa, 2003). This underscores the need to consider a multi-dimensional approach for assessing acculturation.

Contexts and acculturation

Today, more advanced conceptions of acculturation recognize the role of context as a determinant of the acculturation process (Alegria,
Context is introduced by ecological conditions, such as Latinos’ place of residence, the size and form of a family unit, the school system, or the cultural features of an ethnic enclave (Bacallao & Smokowski, 2009; Salant & Lauderdale, 2003). In this regard, context-specific behaviors may differentially influence the process of acculturative change (Berry, 1994). Acculturation also is greatly influenced by other contextual factors, such as the presence of various social constraints, including racial or ethnic discrimination (Clark, Anderson, Clark, & Williams, 1999; Pantin, Schwartz, Sullivan, Prado, & Szapocznik, 2004). In this regard, neighborhood characteristics (e.g., social cohesion, cultural enclaves) and geographic factors (e.g., population density) should be acknowledged as ecodemographic contextual influences on acculturation (Castro, Shaibi, & Boehm-Smith, 2009) and also as influences on a person’s health and well-being (Alegria et al., 2006). Such contextual factors will affect the manner in which the process of acculturation proceeds, and thus the occurrence of differing “acculturation trajectories” (Castro, Marsiglia, Kulis, & kellison, 2010) as observed among diverse cases. Thus differing acculturation trajectories will occur in cases where a Latino immigrant family resides within a culturally-rich Latino enclave, as contrasted with their residence within a neighborhood in which they are the only Latino family. In addition, transient individuals who periodically travel to and from their native country may undergo a cyclical acculturation process that differs qualitatively from the typical process of acculturation. Furthermore, and in contrast with the hopeful expectations of many first-generation immigrant Latinos, second-generation Latinos may experience disappointment and a sense of exclusion (“othering”) from the main society, based on experiences of discrimination or limited life chances (Viruell-Fuentes, 2007).

An innovative approach to the study of acculturation as a process of cultural change would be the study of variations in segmented assimilation trajectories, i.e., changes in acculturation and socioeconomic mobility (Abraido-Lanza, Armbister, Florez, & Aguirre, 2006; Castro, Marsiglia et al., 2010). Segmented Assimilation Theory has described the conditions that govern variations in the assimilation trajectories of immigrants in their efforts towards integration into a new society (Portes & Zhou, 1993).

Regarding acculturation and health, a major research issue is whether the process of acculturation is detrimental to the health of immigrants, or whether it is protective (Castro, 2007). This dilemma may be resolved by postulating the construct of “adaptive acculturation”. Adaptive acculturation may consist of socioeconomic adaptation that enhances health under a trajectory of upward segmented assimilation (Castro, Marsiglia et al., 2010). Ostensibly, this favorable trajectory is protective against disease and psychological disorder, a form of cultural adaptation that affords “the best of both worlds”.

**Emerging issues with the construct of acculturation in health studies**

Several concerns persist regarding the manner in which acculturation is conceptualized, thus consequently over how it should be measured. These concerns include the disproportionate role of language as used to measure acculturation. Other major measurement issues have included the use of restricted response options in scales that purport to measure acculturation, and the use of proxy measures of acculturation (e.g., nativity). This section provides a more in-depth analysis of these issues.

**Sole focus on language use**

The limits to measuring acculturation using language as its principal component is evident in several studies that have examined acculturation as related to: (a) health (DuBard & Gizlice, 2008; Everhart, Ferketch, Browning, & Wewers, 2009; Marin et al., 1987; Perez-Stable et al., 2001); (b) chronic disease (Eamranond et al., 2009; Mainous et al., 2006); and (c) health care practices (Ahluwalia, Ford, Link, & Bolen, 2007; Heck, Fransco, Jurkowski, & Gorin, 2008; Mainous, Diaz, & Geesey, 2008). As one example of a restricted range in measurement in a study on cigarette smoking (Zemore, 2006), investigators used dichotomous answer options (“0” to “no” answers and “1” to “yes”), thus limiting participants in the measurement of their English fluency, despite their actual level of mastery of the English language. Furthermore, using the language in which the survey was taken as a proxy for acculturation (DuBard & Gizlice, 2008), has not accurately captured essential aspects of the concept of acculturation. In general, simple language measures do not aptly capture the complexity of language use, especially among bicultural individuals (Lara et al., 2005), let alone capturing other attitudinal, behavioral, and identity-related dimensions of acculturation. In this regard, using a single measure (language) can misclassify participants into inaccurate categories. In a more recent review, Thomson and Hoffman-Goetz (2009) acknowledge the significant limitations introduced by single acculturation scales (e.g., language), which includes a neglect of acculturative change within the context of personal networks, a change occurring on various dimensions including beliefs, values, attitudes, and behaviors.

**Research that misses ecological contexts**

Other research has focused on cross-sectional designs that fail to describe changes in values or practices occurring over time and across differing contexts and environments (Chirkov, 2009). For instance, in a study with Cuban immigrant families, rate of behavioral acculturation was conceptualized to include changes in language, customs, habits and lifestyles as a function of increasing length of exposure to the host culture (Szapocznik, Scopetta, & Tillman, 1979). Similarly, among Mexican immigrant adolescents, conflicts in family relationships may occur if all family members are not acculturating at the same rate (differential acculturation). This within-family variability in cultural orientations and preferences may thus produce stress and interpersonal conflicts (Bacallao & Smokowski, 2009).

Recognizing personal and social contextual influences (e.g., family networks) that occur across the acculturation continuum is crucial, as these systemic family processes will influence how acculturation affects each family member’s health and psychological well being (Thomson & Hoffman-Goetz, 2009). One approach to capture the complex influences of individual and contextual processes within a family is to design research studies that utilize qualitative and/or a mixed methods approaches (Castro, Kellison, Boyd, & Kopak, 2010). By observing immigrant families as they adjust to a new community or society, researchers can thus inductively discover patterns of cultural adaptation that would inform a more culturally-grounded analysis of the acculturation process (Chirkov, 2009).

**Binary/restricted options**

Similarly, a two-factor approach with limited response options within these two factors does not aptly address the experiences of migrants who interact with cultural groups other than the Latino and the White American cultures (Ahluwalia et al., 2007; Caetano, Ramisette-Mikler, Wallisch, McGrath, & Spence, 2008; Karriker-Jaffe & Zemore, 2009; Mainous et al., 2008). For example, when assessing linguistic acculturation, options that utilize Likert scales do not consider Latin American indigenous languages (e.g., Nahua) as an indigenous response that may occur among certain Latino respondents.

**Imperfect proxy measures**

The inclusion of sociodemographic characteristics (e.g., generation) as proxy measures of acculturation does not aptly capture the richness involved in understanding the construct of
accl purification (Lara et al., 2005). In the past, the use of proxy measures—including generational status, age at migration, place of birth, and place of education—has assumed that acculturation can be approximated by the amount of exposure that individuals have to a dominant culture. For instance, in one study, U.S.-born participants were assigned a “1” score and foreign-born a “0” to measure immigrant status, thus broadly attributing greater acculturation status to those who were born in the United States (Detjen, Nieto, Trentham-Dietz, Fleming, & Chasan-Taber, 2007). As a major problem, such proxy measures may misclassify Latinos into a single level of acculturation, not aptly making distinctions among variations in acculturation.

**Questionable construct validity**

Some studies have used a new scale in which certain subscales may exhibit poor internal consistency and/or include variables that may or may not accurately measure the concept of acculturation (Coral & Landrine, 2008). For instance, classifying participants on a survey as “aculturated”, if they respond to language spoken at home as only English or labeling them as “traditional”. If they reply only Spanish spoken at home. Some studies mix and match indicators purporting to measure acculturation, yet they do not conduct the necessary psychometric analysis of scale reliability or factor structure to ascertain whether such composite indicators allow the additivity of such variables into a single scale (Lin, Bermudez, & Tucker, 2003). Some constructed variables used to measure acculturation may involve conflicting levels of measurement (e.g., the commingling of nominal-level and interval-level items), thus raising questions about the validity of such indicators as a composite “measure” of acculturation (Masel, Rudkin & Peek, 2006).

**Heterogeneous Latino populations**

Within contemporary U.S. society, researchers must reexamine the precise applicability and utility of previously validated scales as used with diverse Latino subcultural groups (Castro, Barrera et al., 2010) when these subgroups were not from previously studied groups used to validate a given acculturation scale. For example, groups from Mexico, Puerto Rico, or Cuba have been studied extensively in prior research (Borrayo & Guarnaccia, 2000; Caetano et al., 2008; Fosados et al., 2007; Gordon-Larsen, Harris, Ward, & Popkin, 2003), and acculturation scales validated with these groups may or may not be valid with other Latino groups (e.g., Dominicans). Many of the acculturation scales used in health-related research report high scale reliability, but do not show evidence of validity as applied to Central or South American Latinos (Fitzgerald, Damio, Segura-Perez, & Perez-Escamilla, 2008; O’Malley, Kerner, Johnson, & Mandelblatt, 1999) or across unique communities, such as various Latino subgroups now existing in new enclaves within the United States. Hence, a multi-dimensional model that accounts for within-group variations among Latinos and across Latino subgroups, as well as the interaction of environmental and neighborhood influences, is needed as it may better capture the actual process of acculturation.

**Directions for improving “Contextual” concepts and measures of acculturation**

A broader conceptualization of acculturation

The concept of acculturation to date has evolved and must account for changes occurring across many domains at differential rates and in different ways across diverse Latino subpopulations. Some acculturation-related factors or dimensions observable across various subpopulations include: (a) extent of language (English) acquisition and proficiency of language usage; (b) the acquisition of dominant cultural-related behaviors (e.g., dietary habits); (c) relational behaviors, such as making friends or out-marriage with members of the dominant culture; and (d) membership in various sociocultural groups or organization from the dominant culture. As previously noted, these acculturative changes are influenced by social context, which emerges from such factors as: the location in which individuals live (e.g., communities), as well as by their daily interactions with others (social networks), adaptation processes (e.g., migration), and institutions (Pasick et al., 2009). In a special case of contextual analysis, context may be regarded as a moderator effect (Castro et al., 2009). That is, a certain outcome will occur within context A, whereas a completely different outcome will occur within context B. For example, a monolingual Spanish-speaking Mexican child may appear quiet and shy within context A that involves exposure to a new group of White American English-speaking children his age. By contrast, that same child, minutes later, may appear loquacious and even emerge as a dynamic group leader in context B with exposure to his Mexican, Spanish-speaking peers and cousins. This contrast illustrates the moderator effects of two distinct social conditions, and thus the moderator effect of condition on behavior. In this regard, we offer some important considerations regarding environmental context, as this applies to better understanding acculturation within context.

**Influences of ethnic enclaves**

The English language can be acquired through many types of interactions, yet for some Latinos this dominant language is not easily acquired. An ethnic community contextualized by the availability of ethnic foods, vernacular language, and other familiar belongings can influence immigrants’ opportunities and the acculturation process (Schwartz, Pantin, Sullivan, Prado, & Szapocznik, 2006), including the process of English language acquisition. Bilingualism for Latinos involves the acquisition of the English language, coupled with the maintenance of Spanish, a combination that generally confers advantages, including facilitating interactions with diverse social groups, family cohesion, and positive mental health (Bacallao & Smokowski, 2009).

**Dominant culture attitudes, values and behaviors**

The acquisition of certain behaviors, attitudes and values prevalent within American society may depend on the availability of healthy and unhealthy products within Latino communities. Food access has been influenced by where one lives (Lopez-Class & Hosler, 2010) and by race (Morland, Wing, Diez Roux, & Poole, 2002). Ayala, Baquero, and Klinger (2008) point to a gap in research regarding the importance of neighborhood environments on dietary health, and these community factors have implications for the development of obesity and diabetes among many Americans, including Latinos who acculturate into the mainstream American society. Contextual influences, such as availability and accessibility of cigarettes or alcohol within a community, also can facilitate the acquisition of health risk behaviors.

Among US-born children of immigrants, residential contexts can influence life chances, including those involving socioeconomic mobility and downward assimilation (e.g., dropping out of school, being unemployed) (Portes, Fernandez-Kelly, & Haller, 2005). In this case, as indicated by Segmented Assimilation Theory, the effect of low human capital (a Mexican child from rural Chiapas, Mexico, who has low-literacy skills) coupled with exposure to bad school environments within a low-income barrio of East Los Angeles, as an ecodemographical context, can increase
that child’s probabilities of dropping out of school. Similarly, access to clinics has been associated with increased pap screenings among Latina immigrants (Fernandez-Esquer & Cardenas-Turanzas, 2004) and decreased cervical screening for low-literacy Latinas (Garbers & Chiasson, 2004). Hence, the varied resources that communities offer can influence the acculturation process in terms of the rates and ways of adopting selective aspects of American culture, while also maintaining native culture values and practices (Alegría, 2009).

Influence of interpersonal relations among Latinos

Familial and other forms of interpersonal values and relations are social factors that can affect the acculturation process. As Pasick et al. (2009) suggest, the extent to which behaviors occur is not solely related to familial influences, but also to the influences of new groups of persons. Latinos as a group value family bonds (familismo), as emphasized by other cultural values: personalismo (characterized by warmth, closeness, and empathy in one’s relationship with others) (Campesino & Schwartz, 2006) and confianza (trust) (Cuellar, Arnold, & Gonzalez, 1995). The presence of a supportive network (e.g., relatives, neighbors) in a community high in social capital has been associated with breast-feeding initiation among Puerto-Rican Latinas (Anderson et al., 2004). Other research on social context has identified social networks as important to Latinos’ emotional and physical well being (Insaf, Jurkowski, & Alomar, 2010). Similarly, many Latinos value harmony in interpersonal relationships (e.g., simpatia) (Huerta & Macario, 1999). Also, the value of interdependence (collectivity) (Oyserman, Coon, & Kemmelmeier, 2002) is important to many Latinos. Hence, acculturation research should consider the influences of these traditional cultural values (e.g., simpatia, collectivity, interdependence), and how these values may change with acculturation (Cabassa, 2003; Marin & Gamba, 2003). Thus the need exists to examine social networks and how changes within these networks can influence the acculturation process, including health (Thomson & Hoffman-Goetz, 2009) and mental health outcomes (Ayon, Marsiglia, & Bernaldez-Parsai, 2010).

These observations as a whole underscore the importance of redefining acculturation as a multi-dimensional construct, as this involves changes in language, personality characteristics, health-related behaviors, and interpersonal relations as examined within the context of several ecodevelopmental levels (e.g., community/neighborhood, family context, social networks), and not solely as a single personal trait (e.g., language proficiency) or a unidimensional process that occurs within a single individual domain. Given this more dynamic conceptualization of acculturation as a process of cultural adaptation, it will be important to step back and reassess the reliability and validity of current acculturation scales and reconsider the extent to which these operate as valid indicators of acculturation. Also, as this more “real world” conception of acculturation can better aid in developing health-related interventions to diminish health disparities, research investigators must recognize that Latino populations exhibit great diversity in where they initiate their acculturation trajectory (their acculturation intercept) (Castro, Marsiglia et al., 2010) and also in how much they can effect acculturative and socioeconomic changes, given their social and human capital. In other words, the “starting conditions” that various Latino individuals and populations experience must be considered in understanding variations in the process of cultural change and adaptation. Hence, an in-depth and “deep-structure” analysis (Resnicow, Soler, Braithwait, Abhulwala, & Butler, 2000) of how Latino traditional cultural practices may change given their residence within a community, may allow researchers to better design interventions that consider the needs and preferences of subcultural groups of Latinos (Castro, Balazar, & Costa, 2007).

Trajectory models of acculturation change across time

Recent studies have conducted prospective latent growth model analyses of acculturation and enculturation changes among adolescents (Knight et al., 2009). In this approach, acculturative changes among adolescents were examined in the domains of: (a) ethnic identity, (b) language use, and (c) affiliation with peers as examined across the time period of seven years (from ages 14–20). This analysis of acculturative changes illustrates the types of eco-developmental changes across time that should be conducted in more relevant studies of acculturation change process.

Similarly, a retrospective lifetime acculturation change approach has been conducted by Castro and colleagues to examine acculturative changes across a longer timeframe, albeit retrospectively, to understand variations in types of acculturative trajectories from childhood to adulthood. In this approach, indicators of acculturation (as measured by the often-used indicators of language spoken and read, mass media consumption, closest friends, and neighborhood or residence) were examined at the early life and current adult milestones. This approach identified four distinct acculturative and mobility groups and their trajectories, as these involved upward and downward sociocultural change (Castro et al., 2010). In a similar study of acculturation change in a sample of community parents, four acculturative change groups were identified based on their initial levels of acculturation in adolescence (acculturation intercepts), and their pattern of acculturative change from adolescence to adulthood: (a) enculturative change (a decrease in acculturation moving closer to Latino culture), (b) no change in acculturation across a lifetime, (c) small acculturation change (small increase in cultural change towards the mainstream American culture), and (d) large magnitudes of acculturative change (large changes towards the mainstream American culture) (Castro et al., 2011). These studies represent new approaches that examine the acculturation change process, thus moving beyond static conceptions of acculturation.

Unique subgroups or social situations

In an extension of such trajectory model analyses, researchers may assess the behavioral patterns of acculturation in atypical groups or individuals. For instance, for specific Latin American countries with a European cultural influence, acculturation into the mainstream American society may be easier for specific Latino subgroups, such as upper class Argentines (De La Rosa, Vega, & Radisch, 2000). As a result, some immigrants may adapt differently based on their unique environmental experiences, cultural orientation or the political upheaval occurring in their country of origin, all which can influence the acculturation process and health outcomes (Palinkas & Pickwell, 1995; Salant & Lauderdale, 2003). As another example, some African Americans and Latinos must contend with racism and discrimination, while certain Asians may experience post-migration trauma. More research is needed to understand not only intragroup heterogeneity (e.g., acculturated African American versus traditional African American), but also the unique migration histories among various immigrant groups, as these may operate as potent “starting conditions” and determinants of variations in acculturation trajectories (Organista, Organista, & Kuraski, 2003). Today, as some Latinos face a resurgence of discrimination (Perreira, Puligni, & Potochnick, 2010) due to their actual or suspected status as being undocumented (being an “illegal alien”), and/or based on their appearance or accent, they will undergo acculturative stress
and face social barriers to acculturation or assimilation into the mainstream American society (Gibbins et al., 2010).

**Barriers and suggestions for a multi-dimensional acculturation inventory**

Contemporary acculturation research has utilized a multi-dimensional approach on acculturation that examines: (a) individualism-collectivism, (b) self-construal (e.g., independence versus interdependence), and (c) the prior dimensions of ethnic or cultural identifications (Schwartz, Unger, Zamboanga, & Szapocznik, 2010; Schwartz, Weisskirch, et al., 2010). This approach argues against the use of simple language-based and/or other proxy measures of acculturation (e.g., generation status). Indeed, a major barrier to a new generation of acculturation research involves the persistent use of simplistic, unidimensional conceptualizations of acculturation and their measurement. This barrier can be surpassed by a conceptualization of acculturation which frames it within the context of “real world” acculturation changes. This process-related approach may generate a greater understanding of cultural changes and adaptation that are applicable to Latino health research.

This “real world” approach may be informed by actual case analyses of acculturative changes, as observed across three domains: (a) attitudes, (b) behaviors, and (c) values (Locke, 1998). For example, among immigrants, acculturation attitudes toward gender relations may change when they immigrate from traditional and restrictive cultural environments, and as they acculturate into the more permissive American society, where gender equality is more accepted. Similarly, acculturative changes in the behavioral domain may include changes in language acquisition, among other behavioral changes. Immigrants to the US from a non-English-speaking country who are monolingual speakers of their native language may undergo changes in language and expressive behaviors (and in related cognitions) as they acquire English-speaking skills. Similarly, values also may change. For example, among immigrants coming to the US from a collectivistic society, acculturation may increase their value and acceptance of individualism and self-directed growth, as a consequence of an ongoing exposure to the American values of freedom and liberty (Locke, 1998).

Finally, the integrative analysis of these acculturative changes, when examined concurrently across the attitudinal, behavioral, and value dimensions, would generate a more comprehensive analysis of variations in changes on these and other dimensions of acculturation. Such comprehensive dimensional analyses would provide a deeper level of understanding of the complexities that occur in the process of acculturation change, whereby some changes may occur faster in one dimension relative to another. Although the present dimensional overview introduces dimensions for a more comprehensive and robust analysis of the process of acculturation change, future studies that build on and expand on these directions may identify the most salient and essential dimensions among these, thus adding new knowledge for a better understanding and conceptualization of the complex process of acculturation.

In conclusion, Latino acculturation and health research can be strengthened if ecologically contextual factors are considered in the process of examining acculturation as a process of change (Carter-Pokras & Bethune, 2009; McLeroy, Bibeau, Steckler, & Glanz, 1988). Hence, context-specific factors within each level may be examined using an ecological model that considers not only individual-level influences (psychological well being, discrimination), but also contextual-level dimensions, including: community (Latino-based churches, ethnic enclaves), social capital (social cohesion), institutional (health care system), and policy (access to substance-based drugs) (McLeroy et al., 1988).

**Limitations**

Our findings should be interpreted within the context of the limitations of this review. Since our review focused on Latinos, we cannot make inferences regarding which components of acculturation are most salient for other ethnic groups. Although we searched for studies related to Latinos and acculturation in several databases, it is possible that we missed some studies. An additional limitation is the preponderance of studies related to Mexicans with limited studies conducted with other Latino subgroups.

**Final thoughts**

The acculturation experience is dynamic, multifaceted and complex. Under the process of acculturation, individuals and communities are constantly changing, and these micro-level changes are also influenced by macro-level events (e.g., immigration-related legislation or ordinances) that can compromise or accelerate the acculturation process and their related acculturation and socioeconomic trajectories (Castro, Marsiglia et al., 2010). Hence, needed now are new methodologies/approaches that are both responsive to these variations in populations and contexts and that can model the actual dynamics of acculturation as a process of sociocultural change and adaptation across time. These approaches, if well grounded ecologically, will allow us to test specific hypotheses regarding the process of acculturation change, and may better inform the design of health-related interventions that aim to eliminate or reduce the health disparities that affect Latinos.

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