



ELSEVIER

Contents lists available at ScienceDirect

Appetite

journal homepage: www.elsevier.com/locate/appet

Research report

The social distribution of dietary patterns. Traditional, modern and healthy eating among women in a Latin American city [☆]Ietza Bojorquez ^{a,*}, Claudia Unikel ^b, Irene Cortez ^a, Diego Cerecero ^a^a El Colegio de la Frontera Norte, Carretera Escénica Tijuana Ensenada Km. 18.5, San Antonio del Mar, Tijuana, B.C. 22560, Mexico^b Instituto Nacional de Psiquiatría Ramón de la Fuente Muñiz, Calzada Mexico Xochimilco #101, Tlalpan, Huipulco, 14370 Ciudad de Mexico, D.F., Mexico

ARTICLE INFO

Article history:

Received 26 February 2015

Received in revised form 2 May 2015

Accepted 5 May 2015

Available online

Keywords:

Dietary patterns

Health-related practices

Nutrition transition

Social epidemiology

Health inequalities

ABSTRACT

Popkin's nutrition transition model proposes that after the change from the traditional to the modern dietary pattern, another change toward "healthy eating" could occur. As health-related practices are associated with social position, with higher socioeconomic groups generally being the first to adopt public health recommendations, a gradient of traditional–modern–healthy dietary patterns should be observed between groups. The objectives of this article were: 1) to describe the dietary patterns of a representative sample of adult women; 2) to assess whether dietary patterns differentiate in traditional, modern and healthy; and 3) to evaluate the association of social position and dietary patterns. We conducted a survey in Tijuana, a Mexican city at the Mexico–United States (US) border. Women 18–65 years old (n = 2345) responded to a food frequency questionnaire, and questions about socioeconomic and demographic factors. We extracted dietary patterns through factor analysis, and employed indicators of economic and cultural capital, life course stage and migration to define social position. We evaluated the association of social position and dietary patterns with linear regression models. Three patterns were identified: "tortillas," "hamburgers" and "vegetables." Women in a middle position of economic and cultural capital scored higher in the "hamburgers" pattern, and women in upper positions scored higher in the "vegetables" pattern. Economic and cultural capitals and migration interacted, so that women lower in economic capital having lived in the US were associated with higher scores in the "hamburgers" pattern.

© 2015 Published by Elsevier Ltd.

Introduction

Throughout history, changes in processes of food production, distribution and trade have been accompanied by modifications in dietary patterns. In recent times, industrialization and globalized markets have led to a nutrition transition (Popkin, 1993), where a diet based on grains and starchy food gave way to the modern food pattern including a high consumption of saturated fats, sugars, processed food and those of animal origin. Another component of this transition is globalization, where local products are replaced by food from all parts of the world, and nontraditional, brand name food and fast food replaces the local diet (Belasco, 2008; Hawkes, 2006). These changes, apparent in high as well as middle and low-income countries, can occur rapidly with urbanization or migration, and within the same country different patterns may coexist (Popkin, 1993; Popkin, Adair, & Ng, 2012; Rivera, Pedraza, Martorell, & Gil,

2014). While the nutrition transition is a well-established phenomenon, another component of Popkin's model has been less studied. In his 1993 publication relating demographic and economic transformations to patterns of food consumption the author also proposed that another change may arise, where the intention of preventing disease would increase consumption of foods considered as healthy. Since the modern diet is associated with an increment in the risk of noncommunicable diseases (Ezzati & Riboli, 2013; World Health Organization, 2011), understanding the factors associated with its adoption, and with the possible transition to a healthier diet, becomes an important public health objective.

Health-related practices are carried out in specific socio-historic contexts, which provide their conditions of possibility and are distributed differentially across social groups (Cockerham, 2013; Williams, 1995). In general, those higher in social position are the first to access innovations in health, as well as to adopt public health recommendations for a healthy lifestyle. Differential practices, in turn, result in a social gradient of risk and protective factors which mostly favors the better-off (Cockerham, 2005; Link & Phelan, 1996; Rubin, Clouston, & Link, 2014; Rubin, Colen, & Link, 2010). As happens with other health-related practices, dietary habits should be expected to differ between social groups. Supporting this notion, an association between higher economic and educational levels and

[☆] Acknowledgements: The research project on which this article is based was financed by Consejo Nacional de Ciencia y Tecnología (CONACYT), grant no. SEP/CONACYT/Basic Science-153536.

* Corresponding author.

E-mail address: ietzabojoquez@gmail.com (I. Bojorquez).

1 dietary consumption following nutritional guidelines has been found
2 (Arruda et al., 2014; Lenz et al., 2009; Mullie, Clarys, Hulens, &
3 Vansant, 2010; Rezazadeh, Rashidkhani, & Omidvar, 2010). In middle
4 income countries, which in the past few decades have undergone
5 an accelerated nutrition transition, the change has been uneven, with
6 malnutrition and obesity coexisting (Popkin et al., 2012; Rivera et al.,
7 2014). In these countries, some studies show that people with better
8 social position consume less of the traditional local foods, and more
9 of the modern, globalized ones (Arruda et al., 2014; Oseguera, 2003).
10 However, the association between eating habits and social position
11 is still unclear, as studies of the social distribution of dietary
12 patterns have mainly been conducted in high-income countries.

13 Using data from a survey of women's health-related practices
14 in an urban, Latin American context, the objective of this article was
15 to explore the socially differentiated distribution of dietary pat-
16 terns. Our specific aims were: 1) to describe the dietary patterns of
17 a representative sample of adult women; 2) to assess whether dietary
18 patterns differentiate in traditional, modern and healthy; and 3) to
19 evaluate the association of social position and dietary patterns. For
20 the purposes of this article, we defined "traditional" as a diet low
21 in processed, industrialized and global food, and composed mainly
22 of traditional food and local products. We defined "modern" as the
23 consumption of globalized, processed, high caloric content food.
24 Finally, we defined "healthy" as food recommended by current
25 dietary guidelines, including fresh fruit and vegetables, high-fiber
26 content and less fat and sugar. Below, we detail the elements of social
27 position that were considered for the analysis, and our hypoth-
28 eses regarding each of them.

30 *Economic and cultural capital*

31 Pierre Bourdieu's work (Bourdieu, 1984) provides a framework for
32 understanding the relationship between social position and health-
33 related practices (Abel & Frohlich, 2012; Williams, 1995). According
34 to Bourdieu, as a result of differential access to resources, as well
35 as socially constructed predispositions, members of a social class
36 tend to share common practices. Resources, in the form of "cap-
37 itals," define class membership, as members of a social class share
38 a common position in the space defined by their possession.
39 Bourdieu distinguishes between social capital, consisting of re-
40 sources accessible through belonging to social groups; economic
41 capital, composed of assets and monetary resources; and cultural
42 capital, which includes both knowledge and the credentials (degrees)
43 that validate knowledge. The different types of capital can poten-
44 tiate each other or interact in various ways, conditioning
45 differentiated practices (Abel & Frohlich, 2012). Economic and cul-
46 tural capital are components of social position which would
47 independently be expected to be associated with the adoption of
48 healthier practices (Cockerham, 2005; Link & Phelan, 1996), but their
49 combined effect in this regard could also be synergistic (Abel &
50 Frohlich, 2012).

51 In this article, we assessed the association of economic and cul-
52 tural capital and dietary patterns. Our hypotheses were that a
53 gradient would be observed where women with lower capital would
54 consume the traditional pattern, women in an intermediate level
55 would consume the modern pattern, and those with more capital
56 would consume the healthy pattern. We also hypothesized there
57 would be a synergistic interaction between economic and cultural
58 capital in this relationship.

60 *Life course*

61 Life course refers to stages through which the individual passes
62 along life, defined not just by age, but also by the social and cul-
63 tural context (Hunt, 2005). The transitions from one stage to another
64 may be accompanied by changes in dietary practices (Devine, 2005).

65 Studies show in general that the consumption of industrialized and
66 fast food reaches its highest point in adolescence and young adult-
67 hood, and decreases afterwards (Barquera et al., 2008; Paeratakul,
68 Ferdinand, Champagne, Ryan, & Bray, 2003). In contrast, the con-
69 sumption of fruits, vegetables and other "healthy foods" increases
70 with age (Bezerra et al., 2014; Lenz et al., 2009; Rezazadeh et al.,
71 2010). Other elements of the life course, in addition to age, can affect
72 diet, among them are pregnancy (Olson, 2005), family structure and
73 the position of women in it (Devine, Connors, Bisognia, & Sobal, 1998;
74 Devine & Olson, 1991), health status and employment (Brown, Smith,
75 & Kromm, 2012; Elstgeest, Mishra, & Dobson, 2012).

76 According to the above, our hypotheses were that younger women
77 and those in positions of less family responsibility would tend to
78 consume the traditional food pattern, while older women and/or
79 those with more family responsibility would preferably consume
80 the healthy pattern.

81 *Migration*

82 Migration from less developed countries and regions, to the more
83 developed, is generally associated with changes akin to those of the
84 nutrition transition (Holmboe-Ottesen & Wandel, 2012; Popkin &
85 Gordon-Larsen, 2004). However, there are differences according to
86 the conditions in which migration occurs. Migrants in better social
87 position take advantage of the food possibilities at the destination
88 site, and usually they have already been exposed to the modern diet
89 at their places of origin (Anonymous, 2014; Perez-Cueto, Verbeke,
90 Lachat, & Remaut-De Winter, 2009). Migrants with less resources
91 may experience a rapid nutrition transition (Holmboe-Ottesen &
92 Wandel, 2012) or food insecurity (Bojorquez et al., 2014; Reyes, Nazar,
93 Estrada, & Mundo, 2007), and those from rural areas, when they
94 arrive to urban areas, may maintain a traditional pattern (Bowen
95 et al., 2011).

96 The city where this research was conducted, Tijuana, is located
97 in Northern Mexico, a region with the lowest consumption of fruits
98 and vegetables, and the greatest of food of animal origin in the
99 country (Ponce et al., 2014). Tijuana also has one of the highest rates
100 of internal migration in Mexico, and it is a city of passing for mi-
101 grants heading to the US. More than 40 million annual border
102 crossings (del Castillo, Peschard-Sverdrup, & Fuentes, 2007) account
103 for the intense relationship between the city and the neighboring
104 state of California, US, and some of Tijuana's inhabitants live es-
105 sentially transborder lives with daily activities on both sides of the
106 border. In this way, Tijuana can be described as an in-between place
107 in a Mexico-US gradient of customs (Valenzuela, 2003).

108 Given the above, our hypotheses were that internal migrant women
109 (born in Southern Mexico) would tend to consume the traditional dietary
110 pattern, while women born in Tijuana, as well as those with a closer
111 relation to the US (having lived in that country or crossing the border
112 frequently), would tend to consume the modern pattern. Based on pre-
113 vious qualitative data which showed that the association between
114 migration and diet varied according to the social context (Anonymous,
115 2014), we explored interactions between indicators of economic and
116 cultural capital, and migration.

117 *Methods*

118 *Sample design and selection*

119 In 2014, we conducted a representative survey of adult women
120 in Tijuana. The probability sample design started with selection of
121 Basic Geographic Statistical Areas (AGEB), stratified by level of dep-
122 rivation (low/middle/high). From each AGEB, blocks were randomly
123 selected, and all households in each block were visited. When more
124 than one eligible woman lived in the household, the respondent was
125 selected randomly. Eligibility criteria were 1) being 18 years of age
126
127
128
129
130
131
132

Download English Version:

<https://daneshyari.com/en/article/7308340>

Download Persian Version:

<https://daneshyari.com/article/7308340>

[Daneshyari.com](https://daneshyari.com)