



Demographic characteristics and barriers for physical activity among adults residing at community La Mesa, Caguas, Puerto Rico 2012

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INTRODUCTION

Physical activity (PA) has been reported to have many health benefits including reduced risk of mortality and the prevention of chronic diseases such as cardiovascular disease, diabetes, cancer, hypertension, obesity and depression [1]. According to CDC to obtain these health benefits adults must engage in at least 30 minutes of moderate intensity PA for 5 days a week [2]. Available data indicate that only 28.0% of the Puerto Rican population complies with these recommendations [3]. Thus, 72% of the population has a 20% to 30% increased risk of all-cause mortality. Studies from other countries has shown that on average, men are more active than women, while factors such as sedentary behavior during occupational and domestic activities, increase in use of “passive” transport and increase urbanization discourage participation in PA [4]. Few studies have focused on PA among Puerto Ricans, therefore, little is known about the risk factors that lead this population to have a very low prevalence of PA.

OBJECTIVE

The aim of our study is to assess demographic characteristics and perceived barriers engaging in PA in a low income community in Puerto Rico.

METHODS

Our study consisted of a descriptive design with a sample of 110 adults 18 years and older. We conducted face to face interviews to Puerto Ricans living in the community La Mesa located at the municipality of Caguas, Puerto Rico. PA level engaging and barriers were assessed using the *Global Physical Activity Questionnaire* (GPAQ) [5] and the *Questionnaire of Perceived Barriers to Physical Activity Practice* [6]. We collected information regarding to sociodemographic variables such as: gender, age, education, occupation, number of children, tobacco use, alcohol consumption, sport practice, Body Mass Index (BMI) and number of chronic diseases. Univariate analysis were conducted using SPSS version 17.0.

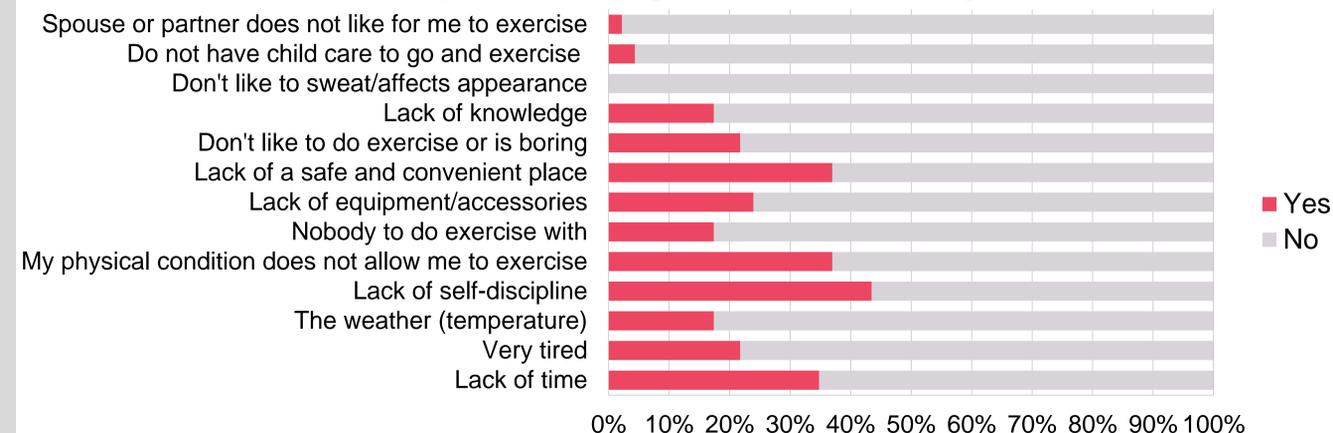
RESULTS

Table I: Sociodemographic characteristics among inactive* adults residing at community La Mesa at Caguas, Puerto Rico during 2012

Characteristics	N	%	Characteristics	N	%
Gender			Two children	6	13
Female	28	60.9	Three children	10	21.7
Male	18	39.1	Four or more	13	28.3
Age			Tobacco		
18-24	5	10.9	Smokers	6	13
25-34	4	8.7	Non-smokers	40	87.0
35-44	7	15.2	Alcohol		
45-54	11	23.9	Alcohol 1 day/week	11	23.9
55 and older	19	41.3	Alcohol 2 days/week	4	8.7
Education			Non-consumer	31	67.4
Did not complete high school	11	23.9	Sports		
Completed high school	22	47.8	Practice sport	2	4.3
Completed technical or college degree	13	28.3	Do not practice any sport	44	95.7
Occupation			BMI		
Salaried	10	21.7	Normal weight	10	21.7
Self-employed	2	4.3	Overweight	16	34.8
Unemployed	4	8.7	Obese	15	32.6
Housewives/husbands	12	26.1	Extreme obesity	5	10.9
Student	3	6.5	Chronic diseases		
Retired	12	26.1	Non-chronic disease	14	30.4
Not able to work	3	6.5	One chronic disease	16	34.8
Children			Two chronic diseases	8	17.4
One child	9	19.6	Three or more	8	17.4

* 41.8% of respondents did not meet PA recommendations.

Graph I: Reported barriers for physical inactivity among adults residing at community La Mesa at Caguas, Puerto Rico during 2012



CONCLUSIONS

- Our results suggest that the majority of the respondents have low levels of physical activity.
- Most of the respondents that did not meet PA recommendations: were females, did not consume alcohol, did not practice any sports, and were overweight or obese.
- The main barriers were based on psychological, biological and physical environment factors. These reported barriers included: *lack of self-discipline, physical conditions, lack of a safe and convenient place and lack of time.*

RECOMMENDATIONS

- Immediate process for planning and implementing educational and interventional prevention strategies, focused specifically on increasing the prevalence of PA.
- Further studies should assess the reliability and validity of the barriers questionnaire in the Puerto Rican population and study the relationship between the barriers of PA and the sociodemographic factors.
- Our initial findings suggest action to address infrastructural and behavioral aspects in Puerto Rican communities to promote healthy lifestyle and PA. Therefore it is highly recommended for this community to conduct needs assessment research, evaluate existing programs and promote empowerment.

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