COMMENTS AND RESPONSES

Response to
Comment on:
Torres-Mejía et al.
Moderate-Intensity
Physical Activity
Ameliorates the
Breast Cancer Risk
in Diabetic Women.
Diabetes Care
2012;35:25002502

e appreciate the comments of Zhang et al. (1). We agree with them that the reduction in breast cancer (BC) risk was very strong, particularly in postmenopausal women (2). Our results are consistent with their recent meta-analysis (3). In our study, after analyzing moderate-intensity physical activity as a continuous variable, we found that for each h/week increment in moderate-intensity physical activity, the odds of having BC decreased by 2% (odds ratio [OR] = 0.98, 95% CI 0.97-0.99,P = 0.003) in premenopausal women and by 3% (OR = 0.97, 95% CI 0.95–0.98, P < 0.001) in postmenopausal women. Our results also agree with those that have shown that there is a stronger effect in Hispanic women than in white women and after age 50 than before age 50.

Zhang et al. mention that very few women could take more than 19 h/week of moderate-intensity physical activity, particularly diabetic women. Mexican women could easily take more than 19 h/week of moderate-intensity physical activity. According to the Organization for Economic Co-operation and Development, Mexican women spend, on average, 6 h per day doing household activities compared with women from developed countries such as Norway, who spend an average of

3.6 h/day doing household chores (4). Furthermore, in developing countries like Mexico, people walk more hours a day than in certain developed countries. This is partly due to the reduced number of cars per household. In 2008, the Mexican Association of Marketing Research and Public Opinion Agencies reported certain characteristics such as the number of cars per households according to six decreasing socioeconomic levels (AB, C+, C, D+, D, and E) (5). Level C corresponds to 17.9% of households in which only two-thirds own a car, 35.8% (level D+) only 1 out of 4 households own a car, 18.3% (level D) practically do not own a car, and 6.7% (level E) do not own either a car or a washing machine (5). Data from the Mexican National Health Nutrition Survey 2012, not yet published, showed that only 16.8% of women with diabetes aged 50-69 years found it difficult to perform their daily activities (walking, moving, or going up and down). Furthermore, our data showed a median of 14 h/week (interquartile range 3-25 h/week) of moderateintensity activity in diabetic women.

As there is no evidence of an association between physical activity and in situ BC risk, our results are representative of women with invasive BC. Although we analyzed both women with in situ and invasive BC in a subsample of 354 premenopausal women, we found 9.9% of in situ BC cases and 5.7% in a subsample of 488 postmenopausal women. New breast carcinoma in situ cases in our study was lower compared with estimates from U.S. and Europe (20%) (6,7). In Mexico, over 80% of cases of women with BC seek clinical attention at later stages of the disease. The findings from our analysis (2) and the meta-analysis of Zhang and colleagues (3) support the idea that further research needs to be done in this area and consideration needs to be given to studies of interventions to reduce BC risk in patients with diabetes.

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