May 16th, 1:45 PM

Sex Differences in Neighborhood Perceptions and Physical Activity among Older Adults Living in Car-dependent Neighborhoods

Wenjun Li
University of Massachusetts Medical School

Linda C. Churchill
University of Massachusetts Medical School

Scott Crouter
University of Tennessee Knoxville

*See next page for additional authors*

Follow this and additional works at: [http://escholarship.umassmed.edu/cts_retreat](http://escholarship.umassmed.edu/cts_retreat)

Part of the [Community Health and Preventive Medicine Commons](http://escholarship.umassmed.edu/cts_retreat), [Geriatrics Commons](http://escholarship.umassmed.edu/cts_retreat), and the [Translational Medical Research Commons](http://escholarship.umassmed.edu/cts_retreat)

Li, Wenjun; Churchill, Linda C.; Crouter, Scott; Kane, Kevin J.; Cheng, Jie; Rui, Fuding; Tian, Jie; Franklin, Patricia D.; Ockene, Judith K.; and Gurwitz, Jerry H., "Sex Differences in Neighborhood Perceptions and Physical Activity among Older Adults Living in Car-dependent Neighborhoods" (2017). UMass Center for Clinical and Translational Science Research Retreat. 45.


This material is brought to you by eScholarship@UMMS. It has been accepted for inclusion in UMass Center for Clinical and Translational Science Research Retreat by an authorized administrator of eScholarship@UMMS. For more information, please contact Lisa.Palmer@umassmed.edu.
Presenter Information
Wenjun Li, Linda C. Churchill, Scott Crouter, Kevin J. Kane, Jie Cheng, Fuding Rui, Jie Tian, Patricia D. Franklin, Judith K. Ockene, and Jerry H. Gurwitz

Keywords
sex differences, step count, aging, neighborhoods, physical activity

Creative Commons License
This work is licensed under a Creative Commons Attribution-Noncommercial-Share Alike 3.0 License.

This poster abstract is available at eScholarship@UMMS: http://escholarship.umassmed.edu/cts_retreat/2017/posters/45
SEX DIFFERENCES IN NEIGHBORHOOD PERCEPTIONS AND PHYSICAL ACTIVITY AMONG OLDER ADULTS LIVING IN CAR-DEPENDENT NEIGHBORHOODS

Wenjun Li¹, Elizabeth Procter-Gray¹, Linda Churchill¹, Scott Crouter², Kevin Kane¹, Jie Cheng¹, Fuding Rui¹, Jie Tian³, Patricia Franklin⁴, Judith Ockene¹, Jerry Gurwitz¹, MD ¹Department of Medicine, University of Massachusetts Medical School; ²Department of Kinesiology, Recreation, and Sport Studies, University of Tennessee Knoxville; ³Department of International Development, Community, and Environment, Clark University; ⁴Department of Orthopedics and Physical Rehabilitation, University of Massachusetts Medical School

INTRODUCTION: Older adults may have more physical limitations and no longer routinely travel outside their neighborhoods to work. Their daily living, health, and well-being may depend on neighborhood resources close to their homes. Therefore, access to resources critical for healthy aging may influence health in various aspects. In this study we investigated differences in neighborhood perceptions (NP) and their influences on physical activity (PA).

METHODS: Between 2012 and 2015, 111 men and 103 women aged 65 years and older living in car-dependent neighborhoods were queried on NP, use of neighborhood resources, and frequency and location of PA. Participants wore an accelerometer for 7 consecutive days.

RESULTS: Compared to women, men had a higher daily step count (mean (SD) 4385 (2122) men vs. 3671(1723) women, p=0.008). Men reported higher frequencies of any PA and moderate-to-vigorous PA, and a lower frequency of PA inside the home. Mean daily step counts and frequency of PA outside the home decreased progressively with age for both genders. Women had a sharper decline in frequencies of self-reported PA. Men had a significant decrease in utilitarian walking, which women did not (p=0.07). Among participants who reported any PA (n=190), more women indicated exercising indoors more often than outdoors (59% vs. 44%, p=0.04). Men perceived their neighborhoods more favorably than women. However, women perceived better accessibility to neighborhood resources. Higher NPs were associated with more frequent total PA and exercise outside the home. Association of NP with recreational walking was limited to men whereas association of NP with utilitarian walking was limited to women.

CONCLUSION: Older men and women differed in levels, types and location preferences of PA, NPs and their influences on PA. Consideration of these sex differences is necessary to improve the effectiveness of active living promotion programs among older adults, especially those targeting NPs.

Contact:
Kevin Kane
University of Massachusetts Medical School
Kevin.Kane1@umassmed.edu