



All Movement Counts: What the WHI Participants Have Taught the World about Physical Activity and Staying Healthy

The OPACH Study

Presentation for the: WHI Participant Webinar July 21, 2021

Background

- •Heart disease is the most common cause of death in older women.
- Rates of heart attack are high in older women.
- Doctors and US guidelines recommend that we exercise to prevent heart disease.

BUT....

How much do we really need to move to stay healthy?



What does the heart want?





2

Mysteries of Light Physical Activity



Light physical activity is:

- "Easy" movement walking slow, window shopping, watering flowers, cooking, housework
- Responsible for half of the calories we burn as older adults
- Very difficult to remember how much light activity we do
- How light activity affects our hearts and health not known

Question #1

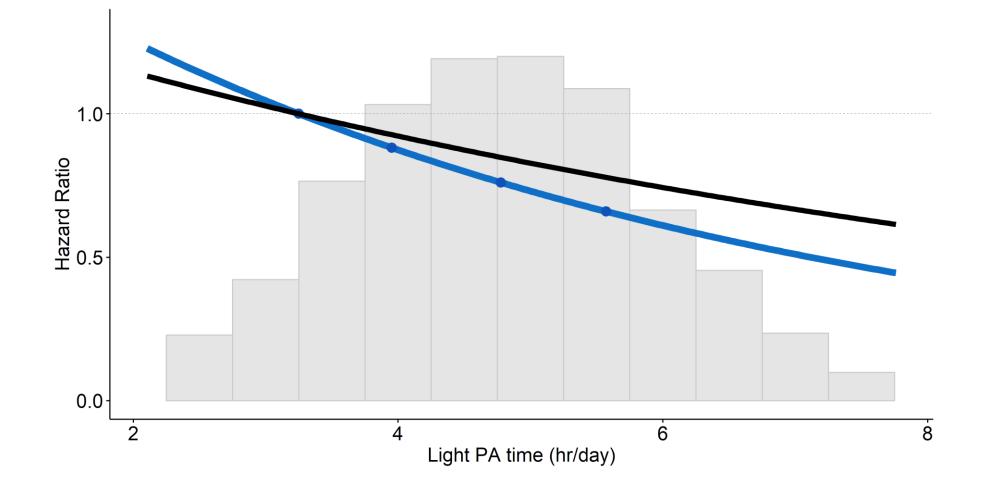
Is light physical activity good for your heart?



Here's what we did



Light Physical Activity and Heart Disease



*Adjusted for age, race/ethnicity, education, self-reported health, multimorbidity, physical functioning, alcohol consumption, and smoking status.

Summary of Results



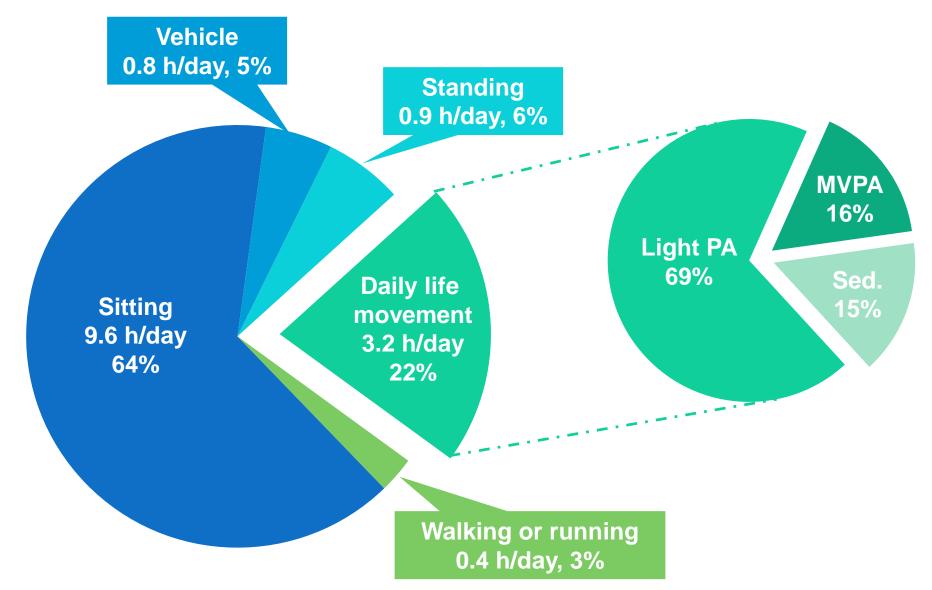
Light physical activity associated with:

 42% reduced risk of heart attack or coronary death

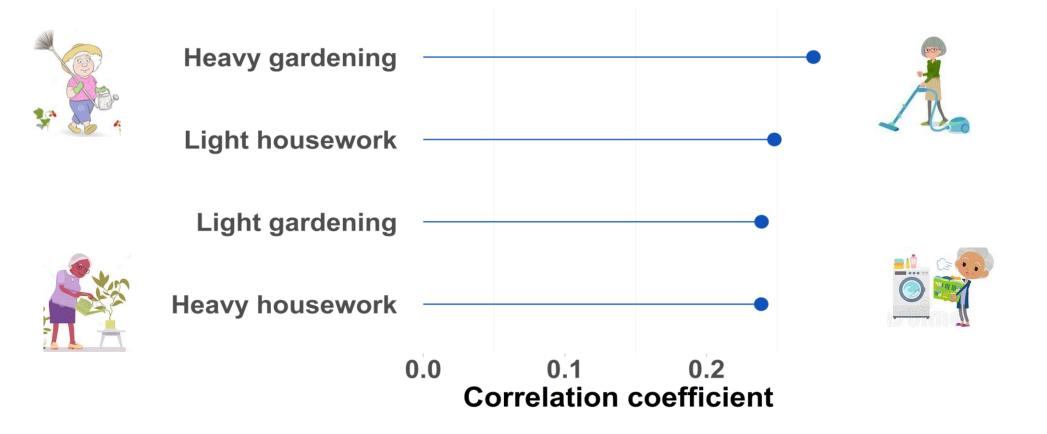


Is daily life movement good for your heart?

Daily Life Movement – standing and moving

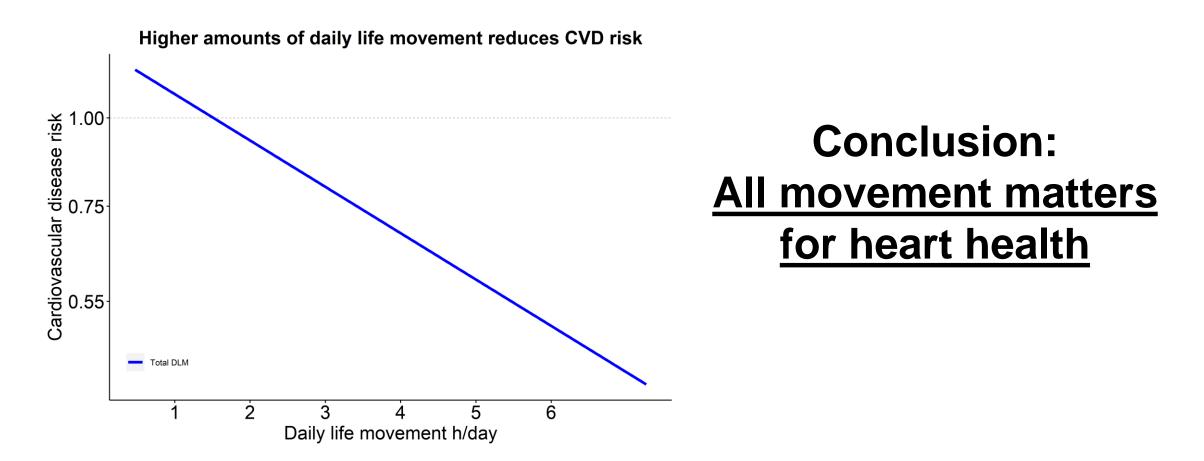


Gardening and Housework are Common Forms of Daily Life Movement



Daily Life Movement and Heart Disease in Older Women

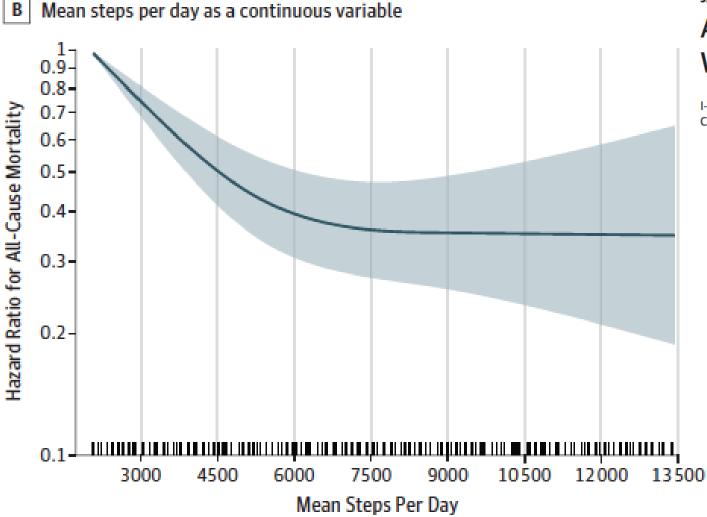
4 h/day = 43% lower risk of cardiovascular disease



Question #3

How many steps are needed for good heart health?

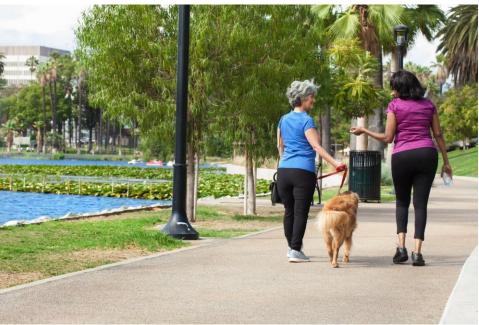
7500 Steps per Day Associated with Lower Risk of Death in Harvard Study



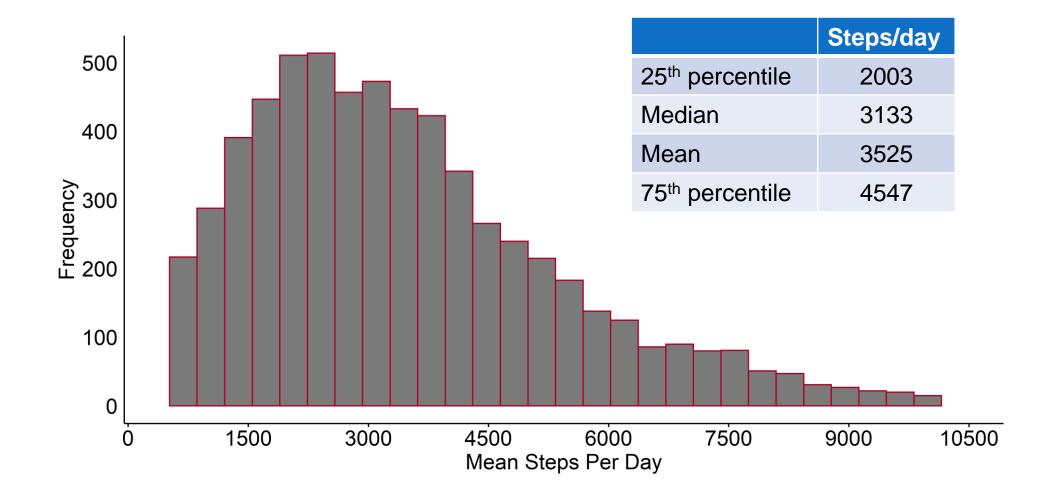
JAMA Internal Medicine | Original Investigation

Association of Step Volume and Intensity With All-Cause Mortality in Older Women

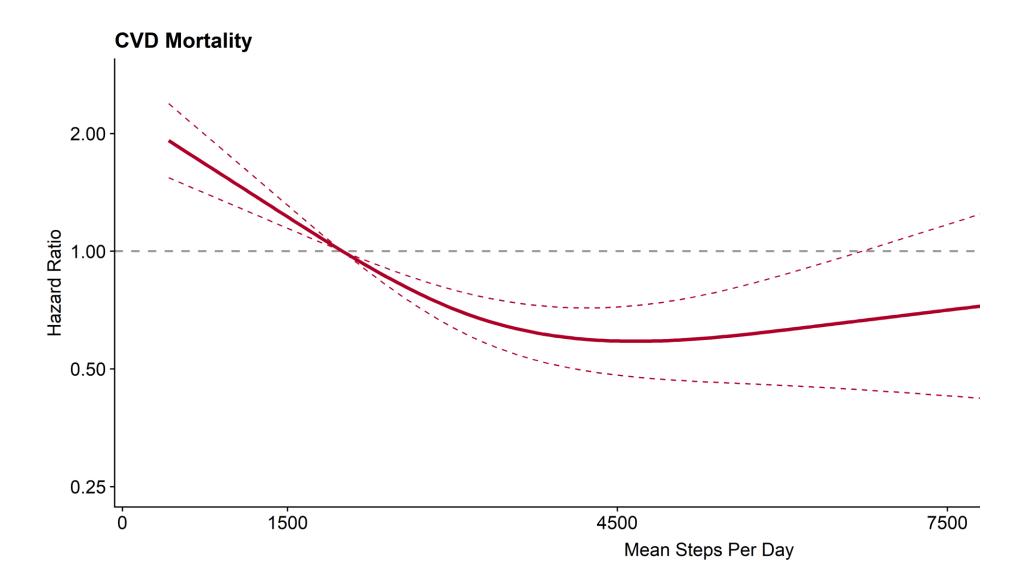
I-Min Lee, MBBS, ScD; Eric J. Shiroma, ScD; Masamitsu Kamada, PhD; David R. Bassett, PhD; Charles E. Matthews, PhD; Julie E. Buring, ScD



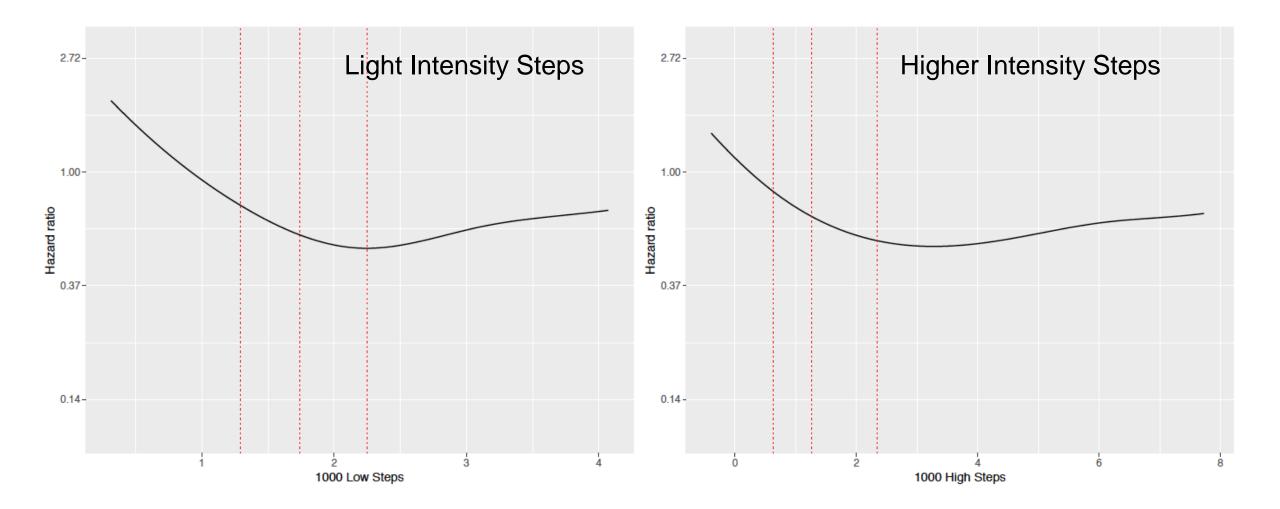
Distribution of steps per day



18% Reduced Risk for every 1000 steps



Light Steps vs. Harder Steps and Cardiovascular Disease





Question #4

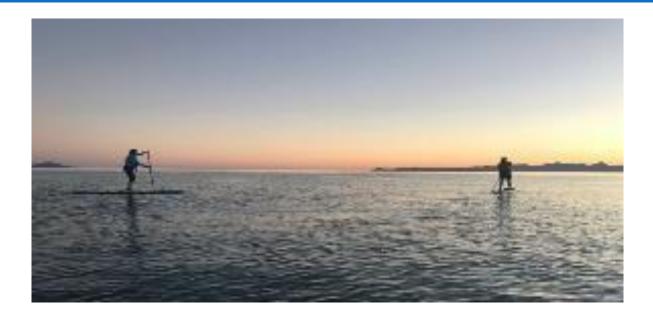
If your genes are good for longevity do you still need to do physical activity to live long?

If your genes are not so good for living long, does physical activity help you to live longer?

Benefits of Light Physical Activity According to Longevity Genes



Conclusion



These findings showed the world that all movement counts when it comes to heart disease prevention in older women.

You must take the first step. The first steps will take some effort, maybe pain. But after that, everything that has to be done is real-life movement.

Ben Stein

(quotefanci



Best loved physical activities of WHI women



<u>#1 -Walking</u> (includes walking on own, walking dog, walking with friends)



walking on own





walking with friends





walking in halls, mall, laps around house

Best loved physical activities of WHI women

#2 - Outings With Friends or Family

#3 - Gardening, Yardwork

#4 -Shopping (grocery shopping, general shopping)

#5 – Cooking, Daily Chores

Best loved physical activities of WHI women

#6 –'Exercise' & Other specific comments	Exercise classes	Gym, treadmill	Physical therapy	Swimming, water exercise
Yoga, Tai Chi, Pilates	Church	Volunteer work	Biking (stationary and outdoor)	"Anything outside'
Caregiving for a family member	Playing with grandkids	Caring for pets	Active sitting, marching in place	Tennis, golf, kayaking, horseback riding, camping
		Still working!		



The [awesome] OPACH Team!

WHI-CCC

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