What daily physical activity pattern is best for your heart health?

To answer this question, researchers at the Institute for Work & Health analyzed activity tracker data in a nationally representative sample of 8,909 workers and their 10-year risk of heart disease.

Group (sample size) Daily physical activity pattern

10-year risk of heart disease (compared to the first group)

The sedentaries





comparison group

These workers do low or light activity throughout the day. They may hold sedentary jobs.

They do low amounts of recreational physical activity and don't tend to use active modes of commuting.



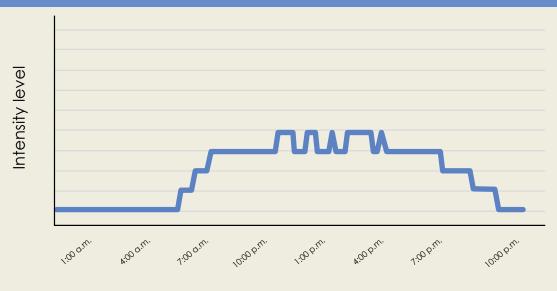
Think of:

An office worker who spends most of the day in front of the computer, drives to and from work, and spends most evenings reading or watching TV.

The steady movers



(3,219 workers)



lower risk

They do light activity in evening hours and low levels of recreational physical activity.

These workers are constantly on their feet or on the move throughout the day, doing

Think of:



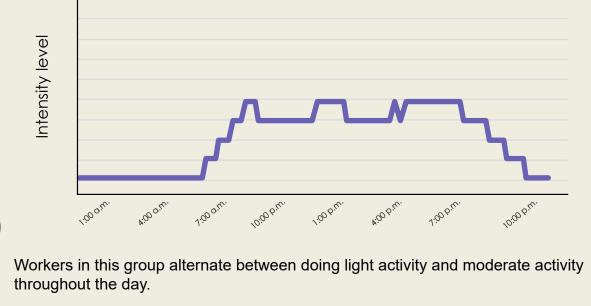
A retail store sales associate who doesn't sit still for long at work,

light or moderate activity.

does light chores at home and goes on walks in the evenings.

The dynamic movers







They engage in high levels of recreational physical activity but are not likely to actively commute to work.

Think of:



drives to and from work, and goes to the gym in the evenings.

The night-shifters

A nurse who does a mix of desk duties and highly physical tasks,



Intensity level Workers in this group engage in moderate physical activity from midday through to midnight.



Think of: An evening stock clerk who's on the move for most of the work

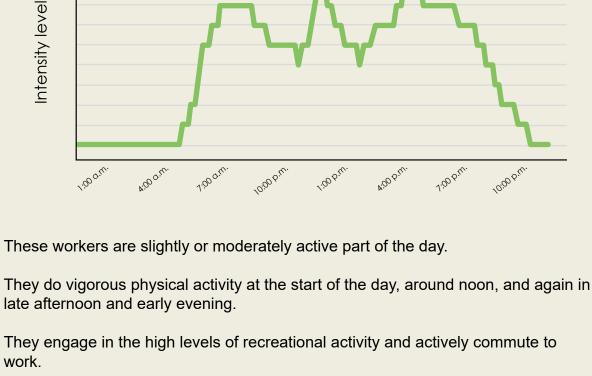


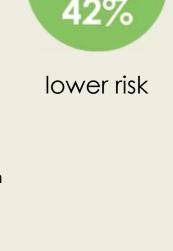
They are more likely to actively commute to work.

The exercisers

shift, bikes to and from work, and does light chores at home.







no

difference



Think of:

The physical workers

by bike and goes on runs during lunch breaks.

A manager who is mostly desk-bound when at work, but commutes



Intensity level These workers engage in vigorous physical activity through most of the daytime hours. They do light activity in the early morning and evening hours. Think of:

A construction worker who does tiring work in the day, takes care of light chores at home, and sometimes plays ball in the evening hours. About the study: The study drew on an existing, nationally representative dataset from Statistics Canada's

blood and urine samples submitted at testing centres. The IWH research team used this clinical data to calculate participants' risk of cardiovascular disease over 10 years. As the study did not ask participants about their occupations, the job examples listed above are only conjecture. For a written summary about the study, see: https://www.iwh.on.ca/newsletters/at-work/109/workers-doing-

vigorous-tiring-activity-all-day-no-healthier-than-those-who-are-least-active

Canadian Health Measures Survey (CHMS). In this survey, conducted over five cycles between 2007 and 2017, participants were asked to wear an accelerometer on their right hip during waking hours for seven consecutive days. Survey participants also agreed to have their clinical data collected, including data from