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Contact:
Angela J. Beck, PhD, MPH
Managing Editor
Tel: 734-764-8775
ajpmedia@elsevier.com

Prolonged Daily Sitting Linked to 3.8% of All-Cause Deaths
Investigators Estimate Limiting Sitting to Less than Three Hours Per Day Could Increase Life Expectancy, According to a New Study Published in the American Journal of Preventive Medicine

Ann Arbor, MI, March 23, 2016 – Sedentary behavior, particularly sitting, has recently become a prevalent public health topic and target for intervention. As work and leisure activities shift from standing to sitting, increased sitting time is starting taking a toll on our bodies. A new study in the American Journal of Preventive Medicine found that sitting for more than three hours per day is responsible for 3.8% of all-cause mortality deaths. Investigators also estimate that reducing sitting time to less than three hours per day would increase life expectancy by an average of 0.2 years.

In order to properly assess the damaging effects of sitting, the study analyzed behavioral surveys from 54 countries around the world and matched them with statistics on population size, actuarial table, and overall deaths. Researchers found that sitting time significantly impacted all-cause mortality, accounting for approximately 433,000, or 3.8%, of all deaths across the 54 nations in the study. They also found that sitting had higher impact on mortality rates in the Western Pacific region, followed by European, Eastern Mediterranean, American, and Southeast Asian countries, respectively.

This type of information is crucial to evaluating the effect sitting has on our lives, especially in light of recent research that shows prolonged sitting is associated with an increased risk of death, regardless of activity level. Researchers now believe that periods of moderate or vigorous physical activity might not be enough to undo the detrimental effects of extended sitting.

While researchers found that sitting contributed to all-cause mortality, they also estimated the impact from reduced sitting time independent of moderate to vigorous physical activity. “It was observed that even modest reductions, such as a 10% reduction in the mean sitting time or a 30-minute absolute decrease of sitting time per day, could have an instant impact in all-cause mortality in the 54 evaluated countries, whereas bolder changes (for instance, 50% decrease or 2 hours fewer) would represent at least three times fewer deaths versus the 10% or 30-minute reduction scenarios,” explained lead investigator Leandro Rezende, MSc, Department of Preventive Medicine, University of Sao Paulo School of Medicine.

Studies are beginning to show us exactly how detrimental prolonged sitting is for our health, even when coupled with exercise; however, changing habits is a difficult proposition. “Although sitting is an intrinsic part of human nature, excessive sitting is very common in modern societies,” commented Rezende. “Sedentary behavior is determined by individual, social, and environmental factors, all strongly influenced by the current economic system, including a greater number of labor-saving devices for commuting, at
home and work, and urban environment inequalities that force people to travel longer distances and live in areas that lack support for active lifestyles."

The results of this analysis show that reducing sitting time, even by a small amount, can lead to longer lives, but lessening time spent in chairs may also prompt people to be more physically active in general. “Although sitting time represents a smaller impact compared with other risk factors, reducing sitting time might be an important aspect for active lifestyle promotion, especially among people with lower physical activity levels,” emphasized Rezende. “In other words, reducing sitting time would help people increase their volumes of physical activity along the continuum to higher physical activity levels.”

The public health burden of prolonged sitting is real. Accounting for 3.8% of all-cause mortality in this study, sitting is shortening the lives of people across the world. “The present findings support the importance of promoting active lifestyles (more physical activity and less sitting) as an important aspect for premature mortality prevention worldwide, and therefore the need for global action to reduce this risk factor.”

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NOTES FOR EDITORS

“All-Cause Mortality Attributable to Sitting Time: Analysis of 54 Countries Worldwide,” by Leandro Fórnias Machado de Rezende, MSc, Thiago Hérick de Sá, MSc, Grégore Iven Mielke, MSc, Juliana Yukari Kodaira Viscondi, MSc, Juan Pablo Rey-López, PhD, and Leandro Martin Totaro Garcia, MSc. It is published online in the American Journal of Preventive Medicine, in advance of Volume 50, Issue 8 (August 2016), DOI: http://dx.doi.org/10.1016/j.amepre.2016.01.022.

Full text of this article is available to credentialed journalists upon request; contact Angela J. Beck at 734-764-8775 or apmmmedia@elsevier.com. Journalists wishing to interview the authors should contact Leandro Fórnias Machado de Rezende at lerezende@usp.br.

ABOUT THE AMERICAN JOURNAL OF PREVENTIVE MEDICINE

The American Journal of Preventive Medicine (www.ajpmonline.org) is the official journal of The American College of Preventive Medicine (www.acpm.org) and the Association for Prevention Teaching and Research (http://www.aptrweb.org/). It publishes articles in the areas of prevention research, teaching, practice and policy. Original research is published on interventions aimed at the prevention of chronic and acute disease and the promotion of individual and community health. The journal features papers that address the primary and secondary prevention of important clinical, behavioral and public health issues such as injury and violence, infectious disease, women's health, smoking, sedentary behaviors and physical activity, nutrition, diabetes, obesity, and alcohol and drug abuse. Papers also address educational initiatives aimed at improving the ability of health professionals to provide effective clinical prevention and public health services. The journal also publishes official policy statements from the two co-sponsoring organizations, health services research pertinent to prevention and public health, review articles, media reviews, and editorials.

The American Journal of Preventive Medicine, with an Impact Factor of 4.527, is ranked 12th in Public, Environmental, and Occupational Health titles and 10th in General & Internal Medicine titles for total number of citations according to the 2014 Journal Citation Reports® published by Thomson Reuters, 2015.

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