

Association Between Leukocyte Telomere Shortening And

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Association Between Leukocyte Telomere Shortening

Telomere shortening in blood leukocytes has been associated with increased morbidity and death from cardiovascular disease and cancer, but determinants of shortened telomeres, a molecular feature of biological aging, are still largely unidentified.

Association between leukocyte telomere shortening and ...

BACKGROUND: Telomere shortening in blood leukocytes has been associated with increased morbidity and death from cardiovascular disease and cancer, but determinants of shortened telomeres, a molecular feature of biological aging, are still largely unidentified. Traffic pollution has

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been linked with both

Association between leukocyte telomere shortening and ...

EDSS and telomere length We found a significant negative association between EDSS and TL ($r = -0.296$; $p = .001$), indicating that shorter TL was associated with higher EDSS. To assess, whether this effect was independent of age, we performed linear regression analysis with EDSS as dependent variable and sex, age and TL as predictors.

Association between shorter leukocyte telomeres and ...

Many studies have described the relationship between telomeres and diabetes, and suggested that telomere shortening contributes critically to its pathogenesis . Peripheral blood leukocyte telomere shortening has been reported as an independent risk factor for the development of type 2 diabetes in American Indians and could be used as an important indicator for predicting its progression [24].

Association between antidiabetic agents use and leukocyte ...

Association between leukocyte telomere shortening and exposure to traffic pollution: a cross-sectional study on traffic officers and indoor office workers. Mirjam Hoxha, Laura Dioni, Matteo Bonzini, Angela Cecilia Pesatori , Silvia Fustinoni, Domenico Cavallo, Michele Carugno, Benedetta Albetti, Barbara Marinelli, Joel Schwartz, Pier Alberto Bertazzi , Andrea Baccarelli

Association between leukocyte telomere shortening and ...

Telomere shortening in leukocytes has implications for immunocompetence¹⁻⁴and is associated with increased synthesis of proinflammatory cytokines and poorer antibody response to vaccines.⁵⁻⁷Shorter leukocyte telomere length also is associated with aging-related morbidity and mortality from conditions with immune system involvement, including infectious

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diseases,8,9cancer,10and cardiovascular disease.11

Association Between Telomere Length and Experimentally ...

Gao, Y., Wang, T., Yu, X. et al. Mendelian randomization implies no direct causal association between leukocyte telomere length and amyotrophic lateral sclerosis. *Sci Rep* 10, 12184 (2020). [https ...](https://doi.org/10.1038/s41598-020-12184-2)

Mendelian randomization implies no direct causal ...

Telomere shortening is associated with poor physical performance in knee osteoarthritis. Authors: Pacharee Manoy; Pongsak Yuktanandana; Aree Tanavalee; Thanatthep Tanpowpong; Than Ittipanichpong; Sittisak Honsawek; [View Affiliations](#)

Telomere shortening is associated with poor physical ...

Shorter leukocyte telomere length (LTL) is an indicator of biological ageing. We studied the association of greenspace exposure and LTL in preschool children. Higher distance to large green spaces was associated with shorter LTL. Higher residential surrounding greenspace was associated with longer LTL.

Association of greenspace exposure with telomere length in ...

The association between leukocyte telomere length and cigarette smoking, dietary and physical variables, and risk of prostate cancer Lisa Mirabello , 1 Wen-Yi Huang , 1 Jason Y.Y. Wong , 2 Nilanjan Chatterjee , 1 Douglas Reding , 3 E. David Crawford , 4 Immaculata De Vivo , 2 Richard B. Hayes , 1, ^ and Sharon A. Savage 1, ^

The association between leukocyte telomere length and ...

Telomeres shorten over time and this shortening has been associated with aging and chronic

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diseases, such as heart disease, type 2 diabetes, and respiratory disorders. In this publication, researchers evaluated the genetic profiles of over 25,000 Singapore Chinese study participants in comparison to the proportions of chronic diseases.

Leukocyte Telomere Length gene explained

Association between shorter leukocyte telomeres and multiple sclerosis. ... 120 healthy controls showed reduced TL in patients as compared with controls There seems to be a prelude of accelerated telomere shortening, which may increase the risk for development of MS. Graphical abstract.

Association between shorter leukocyte telomeres and ...

In their meta-analysis of 27 published studies, D'Mello et al 1 show that shortened leukocyte telomere length (LTL) is associated with 3 primary end points: myocardial infarction, stroke, and type 2 diabetes mellitus. The meta-analysis and its findings raise several fundamental issues that are worth considering.

Association Between Shortened Leukocyte Telomere Length ...

In particular, the potential association between IGA and leukocyte telomere length (LTL) has yet to be examined. In this study we compared LTL in Korean male adolescents with and without IGA and examined the association between LTL and autonomic functions.

Association between internet gaming addiction and ...

Shortened leukocyte telomere length is hypothesized to be a novel biomarker for age and age-related diseases, yet reports on its association with cardiometabolic outcomes in the literature are conflicting.

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Association Between Shortened Leukocyte Telomere Length ...

Results Leukocyte telomere length was positively associated with increasing physical activity level in leisure time ($P < .001$); this association remained significant after adjustment for age, sex, body mass index, smoking, socioeconomic status, and physical activity at work.

The Association Between Physical Activity in Leisure Time ...

The fat mass and obesity-associated (FTO) rs9939609 polymorphism have been associated with the increased metabolic risk and mortality, irrespective of obesity. The mechanism underlying this association is not known. We aimed to evaluate whether the FTO rs9939609 risk variant is independently associa ...

The FTO rs9939609 polymorphism is associated with short ...

Summary The greater the percentage of time spent snoring during sleep as assessed by polysomnography was associated with shorter leukocyte telomere length even after adjusting for potential risk factors and lack of oxygen from sleep apnea. These findings suggest that snoring may influence telomere shortening independent of sleep apnea.

Association between Snoring and Leukocyte Telomere Length ...

Prior studies have shown that telomere lengths in different organs and tissue types of the same individual are highly correlated with each other reported that leukocyte telomere length was strongly correlated with telomere lengths in the skin cells, muscle cells, and fat cells (all P values < 0.0001).

Association Between Leukocyte Telomere Length and ...

Pearson correlation coefficient was used to evaluate the strength of association between leukocyte telomere length and age. Leukocyte telomere length for both recipient and donor analyses was

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categorized into 3 categories based on the leukocyte telomere length tertiles in the donors (T/S <0.62 , $0.62- <0.81$, or ≥ 0.81).

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