















Targeting vascular (endothelial) dysfunction

Author: Thomas Münzel, Santiago Lamas, Huige Li, et al

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SPRINGER NATURE

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Crucial role for Nox2 and sleep deprivation in aircraft noiseinduced vascular and cerebral oxidative stress, inflammation, and gene regulation



Author: Kröller-Schön, Swenja; Daiber, Andreas

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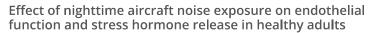






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Author: Schmidt, Frank P.; Basner, Mathias Publication: European Heart Journal Publisher: Oxford University Press

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WHO Noise Guidelines

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Thomas Münzel,^{1,2} Swenja Kröller-Schön,¹ Matthias Oelze,¹ Tommaso Gori,^{1,2} Frank P Schmidt,¹ Sebastian Steven,¹ Omar Hahad,¹ Martin Röösli,^{3,4} Jean-Marc Wunderli,⁵ Andreas Daiber,^{1,2} and Mette Sørensen^{6,7}

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MECHANISTIC INSIG	HT FROM ANIMAL STUDIES
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Abstract

¹Center for Cardiology, University Medical Center Mainz, 55131 Mainz, Germany; email: tmuenzel@uni-mainz.c ²German Center for Cardiovascular Research (DZHK), Partner Site Rhine-Main, 55131 Mainz, Germany

³Department of Epidemiology and Public Health, Swiss Tropical and Public Health Institute, 4051 Basel, Switzerland

⁴University of Basel, 4001 Basel, Switzerland

⁵Empa, Swiss Federal Laboratories for Materials Science and Technology, 8600 Dübendorf, Switzerland

⁶Diet, Genes and Environment Unit, Danish Cancer Society Research Center, 2100 Copenhagen, Denmark

⁷Department of Natural Science and Environment, Roskilde University, 4000 Roskilde, Denmark

The WHO report focused on whole-day noise exposure, but new epidemiological and translationa field noise studies indicate that nighttime noise, in particular, is an important risk factor for cardiovascular disease (CVD) through increased levels of stress hormones and vascular oxidative stress, leading to endothelial dysfunction and subsequent development of various CVDs. Novel experimental studies found noise to be associated with oxidative stress—induced vascular and brain damage, mediated by activation of the NADPH oxidase, uncoupling of endothelial and neuronal nitric oxide synthase, and vascular/brain infiltration with inflammatory cells. Noise-induce pathophysiology was more pronounced in response to nighttime as compared with daytime noise. This review focuses on the consequences of nighttime noise.

Keywords

traffic noise, cardiovascular disease, CVD, sleep disturbance, oxidative stress, circadian clock, mitigation