



Keeping it simple amidst complexity: tips to improve your wellbeing.

Mindfulness and its application

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NOTE: This is the introduction to a series of modules exploring strategies to enhance well-being by effectively managing stress – and the science behind them. You can find the whole series here: <u>HETI Wellbeing Resource Corner |</u> <u>HETI Higher Education (https://heti.edu.au/resources-and-links/heti-wellbeing-resource-corner)</u>

Mindfulness is a mental state where you focus on the present, without judging or being distracted. Mindfulness can help you feel better and reduce stress. It is a useful technique that can help you deal with difficult emotions and situations. Sometimes mindfulness is incorporated into meditation practices, where it is described as 'mindfulness meditation'. https://www.healthdirect.gov.au/mindfulness.

In this section, we explore further the interconnected benefits of mindfulness and meditation on well-being, focusing on their impact on mental, emotional, and physical health through a detailed examination of their mechanisms and practical applications.

Mindfulness and meditation are powerful tools for improving telomere health (indicative of cellular aging) and enhancing brain structure, particularly the prefrontal cortex responsible for executive functions and emotional regulation. The cognitive gains are complemented by the physical benefits of improved autonomic nervous system control and immunity, showing the holistic impact of mindfulness on the human body and mind.

The practice of enhanced attention to present experience and environment, in tandem with nonjudgmental appraisal is also powerful in enabling emotional regulation and empathy. Other aspects include savouring, appreciation and a sense of gratitude (covered later). The benefits of mindfulness extend to cognitive improvements (enhanced concentration, flexibility in thinking and self-awareness).

Simple yet effective mindfulness exercises, such as focusing on second hand of a clock, eating mindfully or engaging all five senses to ground oneself in the present, demonstrate the accessibility of mindfulness techniques in daily life. They not only foster a moment-to-moment awareness but also contribute to a more profound sense of peace and centeredness amidst life's complexities.

In summary, mindfulness and meditation offer profound benefits for health, grounded in both ancient wisdom and contemporary scientific research. These practices enhance telomere integrity, a crucial marker of cellular aging, suggesting a direct link between mindfulness and biological longevity. Moreover, they contribute to the structural development of the brain, notably the prefrontal cortex, which is instrumental in managing higher cognitive function (executive function) and emotional regulation.

Some resources

Lavretsky H.....Blackburn E, Irwin MR. A pilot study of yogic meditation for family dementia caregivers with depressive symptoms: effects on mental health, cognition, and telomerase activity. Int J Geriatr Psychiatry. 2012 Mar 11. doi: 10.1002/gps.3790

Can mediation change brain structure? <u>https://nwcreations.com/ted-talk-thursday-meditation-can-reshape-brains-sara-lazar-tedxcambridge-2011/</u>

Hölzel BK, Carmody J, Vangel M, et al. Mindfulness practice leads to increases in regional brain gray matter density Psychiatry Res. 2011;191(1):36–43. doi:10.1016/j.pscychresns.2010.08.006

Lazar SW, Kerr CE, Wasserman RH, et al. Meditation experience is associated with increased cortical thickness. Neurorepair. 2005;16(17):1893–1897.

Huston P, McFarlane B. Health benefits of tai chi: What is the evidence? Can Fam Physician. 2016 Nov;62(11):881-890. PMID: 28661865

Tai Chi Oz online https://taichioz.blogspot.com/