



LONGEVITY NEWSFLASH

August 2025

About this Bulletin

Welcome to the Newsflash, your monthly signpost to emerging research.

This complimentary digest highlights newly published peer-reviewed studies and key updates from public health and statistical agencies in the UK, US, and Canada, all selected for their relevance to the insurance and longevity sectors.

Rather than providing in-depth analysis, Newsflash is designed to guide you quickly and efficiently to valuable new material beyond the scope of our main bulletins, helping you stay informed and ahead of the curve.

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Director of Life and
Health Consulting



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Newsletter Highlights

Journal updates - Highlights

A systematic analysis of the global burden of chronic kidney disease (CKD) due to hypertension from 1990 to 2021 revealed that although age-standardized rates of hypertension-related CKD have declined, the absolute burden has more than doubled due to population growth and aging. Projections to 2036 indicate increasing deaths and disability-adjusted life years (DALYs), highlighting the necessity for targeted prevention and risk-factor reduction.

Updates from statistical bodies - Highlights

No relevant updates this month

Updates from other health bodies - Highlights

Updates to indicators and structure of the Wider Determinants of Health profile. This profile identifies a diverse range of social, economic and environmental factors which impact on people's health. Addressing the wider determinants of health has a key role to play in reducing health inequalities.



Journal Updates

Cardiovascular



Ten-Year Cerebrovascular Disease Trend Occurrence by Population-based Stroke Registry in an Aging Japan Local Prefecture

Omama 2025

J Stroke Cerebrovasc Dis. 2020 Mar;29(3):104580

Analysis of the last 10-year cerebrovascular diseases incidence in an aging local prefecture in Japan

doi: 10.1016/j.jstrokecerebrovasdis.2019.104580.



Cardiovascular

Cerebrovascular disease



Independent associations of social determinants of health with mortality and added predictive value beyond life's essential 8

Zhuang 2025

J Health Popul Nutr. 2025 Aug 11;44(1):286

Analysis of the social determinants of health on mortality.

10.1186/s41043-025-01038-3



Cardiovascular

Cardiovascular disease



Journal Updates

Lifestyle 



Are Baby Boomers hazardous drinkers as they age? An exploratory interRAI study

Barak 2025

Australas Psychiatry. 2025 Aug;33(4):711-717

Exploration of age-specific alcohol use patterns in a national dataset, in New Zealand.

doi: [10.1177/10398562251346622](https://doi.org/10.1177/10398562251346622)



Lifestyle

Alcohol consumption

Journal Updates

Longevity and Mortality



Association of 25(OH)D serum level with biological aging: A Cross-Sectional Study of 2007-2016 NHANES surveys

Feng 2025

PLoS One. 2025 Aug 6;20(8):e0328107. eCollection 2025.

Analysis of the relationship between 25(OH)D serum levels and biological aging calculated by PhenoAge Acceleration (PhenoAgeAccel) using data from the 2007-2016 National Health and Nutrition Examination Survey (NHANES).

doi: 10.1371/journal.pone.0328107



Lifestyle

Ageing



The Impact of Air Quality on Patient Mortality: A National Study

Periyakoil 2025

Int J Environ Res Public Health. 2025 Jul 16;22(7):1123

Analysis of the impact (if any) of air pollution on the 5-year mortality of patients in the American Family Cohort (AFC) dataset.

doi: 10.3390/ijerph22071123



Lifestyle

All-cause mortality



Aging acceleration, not chronological age, is associated with cognitive performance in older adults: A cross-sectional study on the protective role of physical activity

Sun 2025

Medicine (Baltimore). 2025 Jul18;104(29):e43431.

This study explored the role of PhenoAge and PhenoAgeAccel in cognitive performance and investigated whether PA moderates this relationship.

doi: 10.1097/MD.00000000000043431



Lifestyle

Ageing



Journal Updates

Longevity and Mortality



Social determinants of health and age-related differences in all-cause mortality: evidence from National Health and Nutrition Examination Survey

Tan 2025

Ann Med. 2025 Dec;57(1):2536207. Epub 2025 Jul 23.

Analysis of unfavourable social determinants of health (SDoH) and all-cause mortality.

doi: 10.1080/07853890.2025.2536207

Other

All-cause mortality



Sarcopenic obesity, physical activity, and their combined impact on biological aging in US adults

Wang 2025

BMC Public Health. 2025 Jul 2;25(1):2226

Analysis of the independent and combined associations of sarcopenia, sarcopenic obesity (SO) and physical activity (PA) status with phenotypic age acceleration in US adults.

doi: 10.1186/s12889-025-23424-6



Lifestyle

Ageing

Journal Updates

Nephrology 



Global burden of chronic kidney disease due to hypertension (1990-2021): a systematic analysis of epidemiological trends, risk factors, and projections to 2036 from the GBD 2021 study

He 2025

BMC Nephrol. 2025 Aug 9;26(1):448

Analysis of the global, regional, and national burden of CKD due to hypertension from 1990 to 2021, identification of risk factors, and projected trends until 2036.

doi: [10.1186/s12882-025-04386-8](https://doi.org/10.1186/s12882-025-04386-8)



Genitourinary

Chronic kidney disease



Journal Updates

Neurology



Global, regional, and national epidemiology of neurological disorders and subcategories: incidence and disability-adjusted life years, 1990-2021

Han 2025

Eur J Med Res. 2025 Aug 5;30(1):711

Multi-dimensional analysis of global trends and inequalities in the burden of neurological disorders (NDs) and subcategories from 1990 to 2021.

doi: [10.1186/s40001-025-02958-w](https://doi.org/10.1186/s40001-025-02958-w)



Neurology

Neurological disorders



Journal Updates

Oncology 



Screening programmes and breast cancer mortality: an observational study of 194 countries

Hasan 2025

Bull World Health Organ. 2025 Aug;103(8):470-483

Investigation of the associations between national breast cancer screening programmes and breast cancer mortality globally.

doi: 10.2471/BLT.24.292529



Cancer

Breast cancer



Other Health bodies

Healthcare Resource Use



Wider Determinants of Health

Updates to indicators and structure of the Wider Determinants of Health profile

Other

Disease not specified

<https://fingertips.phe.org.uk/profile/wider-determinants>



Our Ethos

At Crystallise we seek to clarify decision-making from biomedical evidence. Whether you are a pharmaceutical executive, healthcare manager or an actuary, we deliver high quality, competitively priced biomedical evidence syntheses, analyses and models – quickly, reliably and efficiently.

Our Vision

Crystallising medical evidence to improve decision making.

Our Mission

To make the synthesis and analysis of biomedical evidence more efficient, objective and reliable.

Our Values

Inclusiveness

Social responsibility

Innovation

Integrity

Reliability

Our Ethical Principles

Integrity

Social and Public Good
Consideration

Avoiding Conflicts of Interest

Probity

Honesty

Scientific and Methodological
Rigour

Transparency and Disclosure

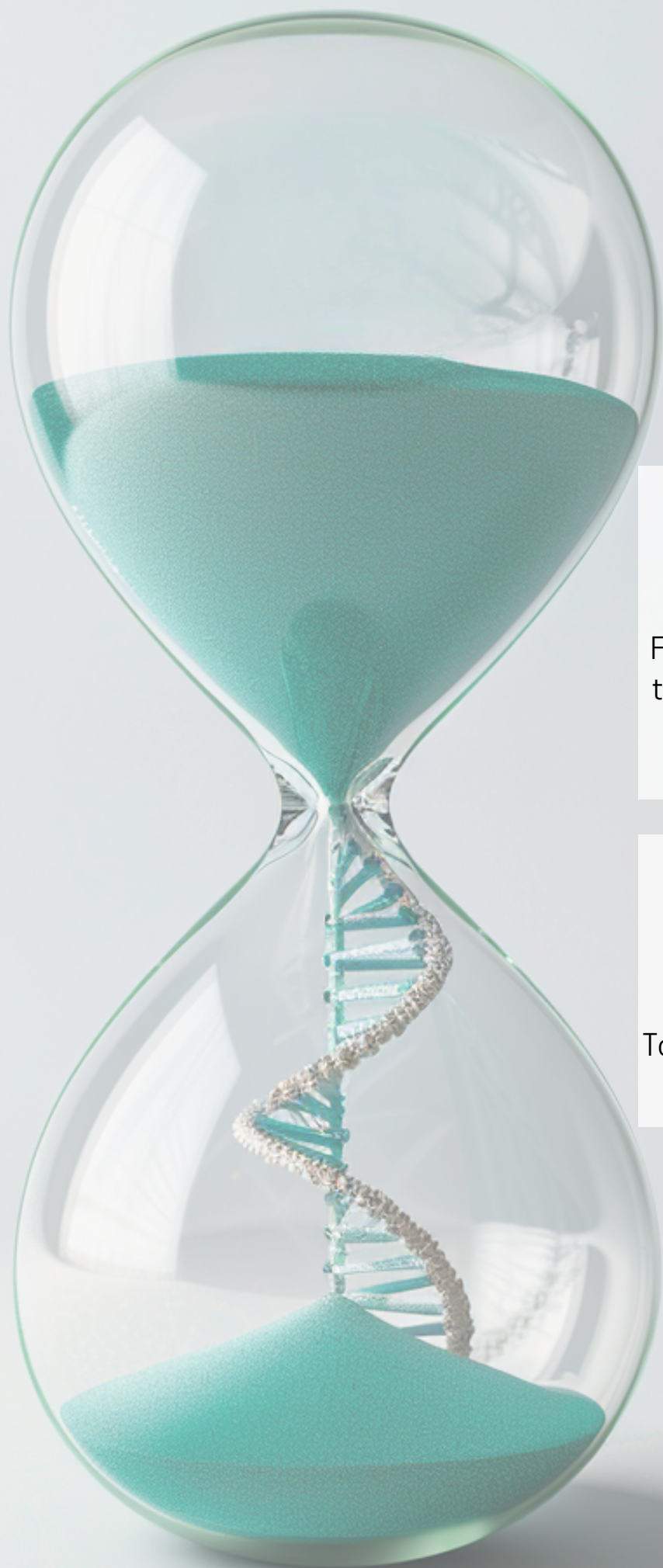
Respect for Privacy and
Confidentiality

Accountability and Professionalism

Justice

Environmental Responsibility

Commitment to Continuous Ethical
Reflection



Disclaimer:

No data analysis was performed in the studies included in this newsletter.

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