## Diet's impact on cognitive health in older adults at risk of dementia

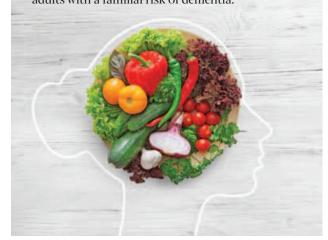
A study featured in The New England Journal of Medicine explored the potential link between diet and the risk of dementia in older adults. While previous research indicated that diet might influence dementia risk, it remained uncertain whether dietary changes could directly enhance cognitive function. The study involved 600 overweight older adults, averaging 70 years of age, who had a family history of dementia.

These participants were split into two groups: one following the MIND diet, a blend of the Mediterranean and DASH diets, and the other practising portion control on its own. Over the course of 3 years, both groups received personalised weekly guidance from dieticians for the first 6 months, followed by biweekly sessions. Their target was to lose 3% to 5% of their initial weight. The MIND group received "brain-healthy" foods weekly, such as olive oil, blueberries, and mixed nuts, while the control group got gift cards.

After 3 years, both groups experienced improved cognitive scores across various aspects compared to their starting points. However, there was no notable difference in cognitive scores between the MIND diet group and the control group. Interestingly, both groups lost around 5 kilogrammes on average, and brain scans of a subset of participants showed

similar results for both groups.

Adherence to the MIND diet was confirmed through surveys and biomarker measurements. The noteworthy aspect is that both groups demonstrated cognitive improvements. This suggests that cognitive benefits might be linked to dietary changes and weight loss, or possibly other unrelated behaviours that participants engaged in. Overall, the study sheds light on the complexities of diet, cognitive health, and weight loss among older adults with a familial risk of dementia.





# Navigating the political economy of non communicable diseases

UMMAY FARIHIN SULTANA

In the 20th century, noncommunicable diseases (NCDs) emerged to take control of the epidemiological landscape as a result of successive industrial revolutions and the ageing of the world's population. Instead of a relatively acute and brief course of diseases that were largely curable, NCDs brought predominantly lifelong illnesses were incurable, which increased the demand for chronic medical expenses. In the realm of global development, the MDGs overlooked the dark threads of NCDs, but with the advent of the SDGs, a new dawn of awareness emerged, requiring urgent attention from the country's leaders and policymakers. And for developing comprehensive strategies to address this growing health crisis, it is important to understand its political economy.

The perspective of the political economy of NCDs refers to the route-turn where the health risk

(e.g., behavioural or biological) contributors to GDP and job of an individual connects with political and economic structures and practises. Viewpoint question includes, for example, how do political decisions and economic priorities interact to influence the surroundings in which people live? For instance, political choices motivated by desires to release the commercial sector from regulation have created an environment where it is challenging to make healthy choices.

Amidst the fabric of the nation's political economy, the fingerprints of industry and corporations can be found, each thread leaving its mark on consumer choices and lifestyle patterns. In such a setting, the objective of public health regulation to limit consumption of products that increase NCD risk creates a real dilemma for governments, with an apparent tradeoff between profits and public health interests. Industries that profit from the continuation of behaviours that increase the risk of developing NCDs are all significant creation in the country. Instead of fresh and unprocessed food, highly processed foods, for example, have better profit margins due to their lengthy shelf lives. This perception of profit overlooks the adverse consequences, such as poor health, social costs, and lost productivity, that result from consuming unhealthy foods.

Companies with a stake in these products frequently drown out the voice of the health sector when it calls for policy changes in economic sectors that will lower consumption of profitable products. Thus, for more effective and progressive policies and dynamic collaborations in the arena of NCD control and prevention, we must delve deeper into the nexus of politics, economics, and public health, scripting a tale of resilience and well-being for generations to

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#### **HAVE A NICE DAY** The butterfly effect

DR RUBAIUL MURSHED

Cloudy weather during the World War II led to a fateful shift in plans, sparing Kuroko from destruction and changing history. Nagasaki became the target instead, highlighting the immense impact of split-second decisions. This incident, akin to 'the butterfly effect,' continues to resonate with Kuroko's inhabitants, reminding us of history's delicate balance.

The butterfly effect, a part of chaos theory, states that predictions have limitations even in small, discrete systems. It was summarised by Edward Lorenz, the meteorologist who discovered it. He noted that a tiny change in the initial conditions had enormous long-term implications. By 1963, he had formulated enough ideas to publish an award-winning paper. For



instance, when a butterfly flaps its wings in Cox's Bazar, that tiny change in air pressure could eventually cause a tornado in Florida. That means something minor, like a small mosquito bite. can have much more significant effects, such as putting someone's health in danger, called the butterfly effect.

The butterfly effect rests on the idea that the world is deeply interconnected; such a tiny occurrence can influence a much larger, complex system with enormous long-term implications.

Although chaos theory was the initial term, complexity science, or complex systems theory, is often used to describe chaotic behaviour. Around the world, people view the butterfly symbol as representing resolution, hope, and life. It also represents a state of naturalness and purity. But in reality, this theory teaches us that 'small things matter', and we are all 'connected to a bigger system'.

Our action now, today, would have been the result of a previous action, and this could, in turn, lead to future action. And with a small gesture, someone can change somebody's life.

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## The National Guidelines on Diabetes Mellitus were launched

STAR HEALTH REPORT

International Japan Cooperation Agency (JICA) and the Association of Bangiadesn (BADAS) have provided technical support to the Non-Communicable Disease Control (NCDC) to develop a National Guideline on Diabetes Mellitus, says a press release. The guideline was launched on August 6, 2023, and it will help guide Bangladeshi physicians to choose adequate treatment for managing their patients.

Diabetes is a long-lasting illness that requires continuous medical care and patient self-management education for optimal management outcomes and to reduce the risk of complications. The International Diabetes Federation (IDF) reported that Bangladesh is in the 8th position in the world ranking, with 13.1 million people having diabetes.

JICA's technical cooperation project for 'Strengthening Health' treatment to the patients. We hope Care Systems for Organising the guidelines will help healthcare Communities' (previously known as SHASTO) closely worked with healthcare services, improving risk assessment, glycemic control, the NCDC and the Directorate General of Health Services (DGHS) to develop and implement the NCDC's programme activities, including We are also looking forward to as retinopathy, neuropathy, and promoting the NCD management launching The Project to Strengthen nephropathy.



diabetes. Regarding launch,

Mr KOMORI Takashi, Senior Representative, Japan International Cooperation Agency, said, "JICA is pleased to provide technical support to NCDC, DGHS, BADAS, and the Government of Bangladesh to establish the National Guideline on Diabetes Mellitus to help the physicians offer appropriate professionals ensure high-quality patient outcomes and quality of life. We all want to strengthen the

model to prevent hypertension and Healthcare Systems for Preventing Non-communicable Diseases (SHASTO2) this month. It will be part of our continuous alliance with the Ministry of Health and Family Welfare (MoHFW).'

The National Guideline on Diabetes Mellitus would provide evidence-based guidance diagnosing, preventing, and managing diabetes in Bangladesh that has been tailored to local practises, needs, and resources. It would cover numerous aspects of diabetes care, including screening, use of medications, insulin therapy, lifestyle intervention, and managing healthcare system in Bangladesh. diabetes-related problems such

### Daily multivitamins may offer modest cognitive benefits for older adults

Recent articles in Alzheimer's 2,262 participants with an among participants with existing supplementation for older individuals' cognitive health. While randomised trials have generally shown the limited advantages of multivitamins, these studies suggest a nuanced perspective.

Two separate trials, each spanning three years, examined the effects of a comprehensive and zinc on cognitive function in older adults.

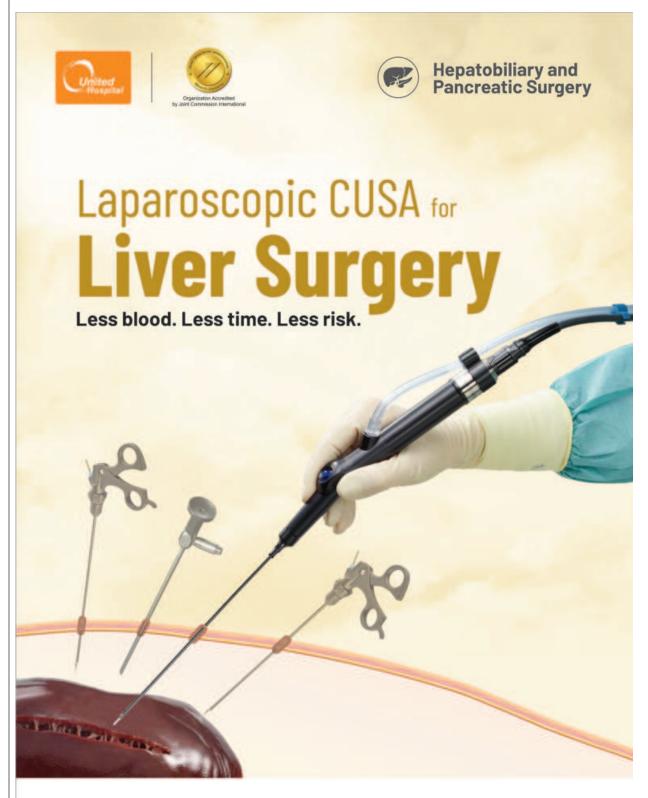
and Dementia and the American average age of 73, individuals cardiovascular disease. Journal of Clinical Nutrition were randomly assigned to shed light on the potential either take the multivitamin or benefits of daily multivitamin a placebo. Initially, both groups



daily multivitamin regimen showed comparable cognitive function in older adults appear containing vitamins A, B12, C, D, scores, but after three years, the modest and are expressed through E, biotin, potassium, magnesium, multivitamin group exhibited a specialised measures, these significantly higher combined trials offer a fresh perspective cognition score. Notably, this on potential cognitive health In the first trial, involving improvement was more noticeable advantages.

The second trial engaged 3,562 participants with an average age of 71, none of whom had a history of heart attack, stroke, or invasive cancer. Over the course of three years, their cognitive abilities were repeatedly assessed. Interestingly, those taking multivitamins outperformed the placebo group on a test involving the immediate recall of 20 words.

In summary, while the benefits of multivitamins for cognitive



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