

The Role of Multivitamin Supplementation in Dementia Risk Reduction in Taiwanese Elderly: Insights from a Population Health and Economic Model

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Background

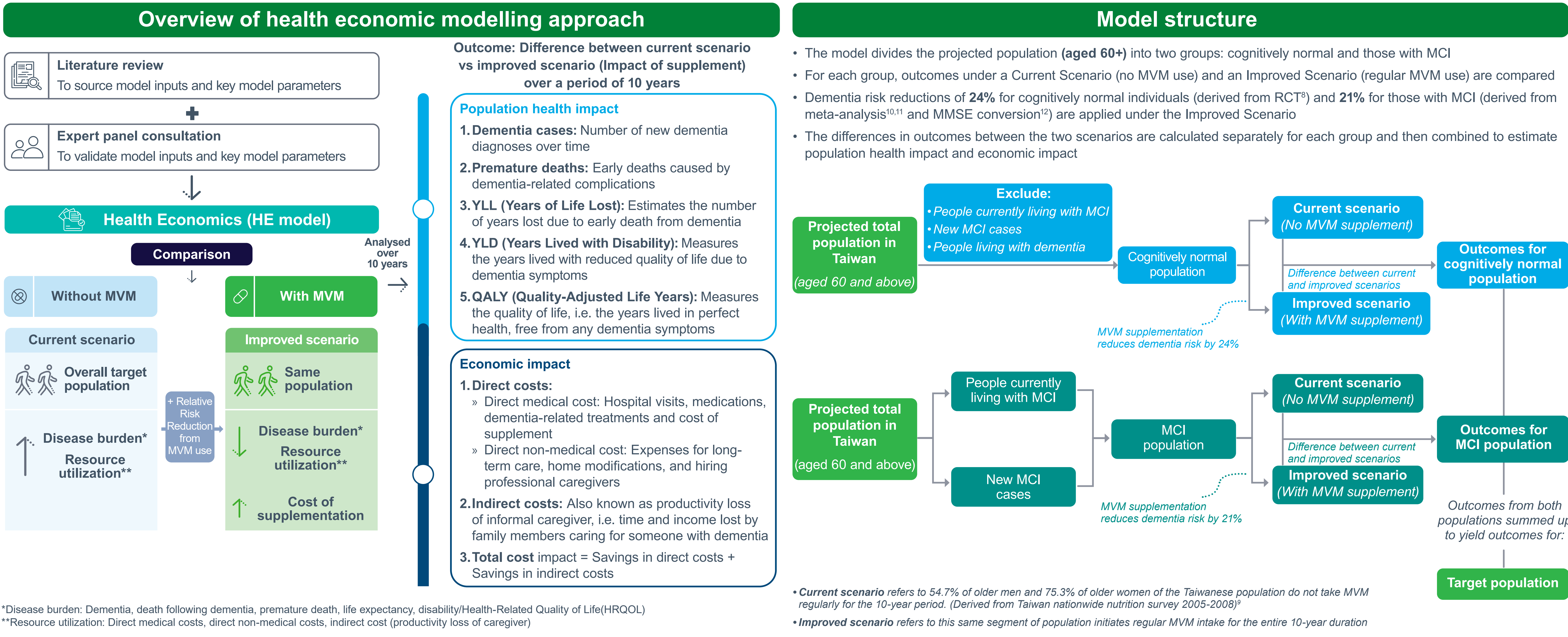
- By 2025, **>20%** of Taiwan's population will be **≥65 years**¹
- Mild cognitive impairment (MCI)** affects **10–25%** of older adults in Taiwan² and substantially increases dementia risk
- Dementia-related medical costs were estimated at **USD \$412M** in 2015¹; more recent MOHW data report **NT\$533,000 annual cost per patient (1.67× higher than non-dementia)**³
- Dementia places a heavy burden on **informal caregivers**, including productivity losses⁴
- Daily multivitamin and mineral (MVM) supplementation** presents a promising opportunity to support cognitive health and **reduce dementia risk**^{5–8}
- However, large proportion of Taiwanese older adults do not regularly take MVMs⁹, representing a missed opportunity for early prevention of cognitive disorders

Objective

To estimate the population **health and cost impact** of regular MVM supplementation in reducing dementia risk among Taiwanese adults aged 60 and above who are not regular MVM users, representing a significant unrealized public health opportunity

Methods

A population-based health economic model was developed to compare 10-year health and economic outcomes (2024–2033) between no MVM uptake versus regular MVM uptake among older Taiwanese adults who are non-users



Result

