

INSIGHTS FOR HEALTHCARE RESILIENCE AND ECONOMIC PERFORMANCE

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The Broader Economic Benefits of COVID-19 Vaccination in the Netherlands

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COVID-19 continues to impose a significant **burden on healthcare systems** and, due to productivity losses, on **the national economy**, particularly when other infectious diseases like **influenza and RSV** co-circulate. Access to annual vaccination remains essential to sustain population immunity, curb variant emergence, and mitigate its burden on the economy.

Methods

We used a cost-of-illness analysis (COI) to quantify the economic burden of COVID-19 and assess the broader economic benefits of immunisation using three main scenarios:

No further annual autumn vaccinations

Annual autumn vaccination of population aged 60+ years and high-risk groups in line with the Dutch Health Council's 2023 recommendations

Extended annual autumn vaccination of the general population aged 50+ and 18+

Key takeaways

Despite current COVID-19 vaccination efforts, a substantial economic burden persists.

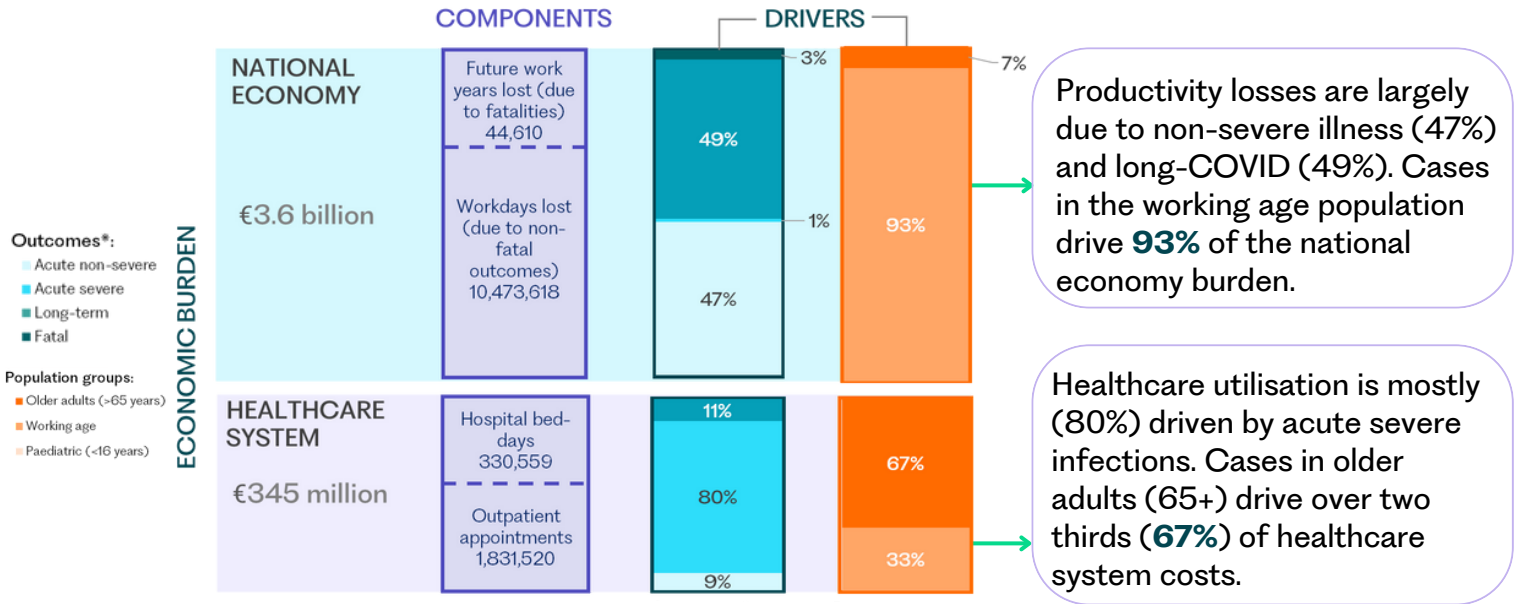
- The **total economic burden** of COVID-19 without annual autumn vaccination is almost **€4 billion per year**.
- Productivity losses due to COVID-19 generate a substantial impact on the national economy (€3.6 billion)
- Acute non-severe and long-term COVID-19 outcomes, especially among the working-age population, drive the majority of the cost to the national economy.

Annual autumn COVID-19 vaccination of people aged 60+ based on Autumn 2023 uptake rates (range 32%-63% depending on 5-year age group for 60+) and high-risk groups saves about €210 million per year.

- Of the €210 million, the healthcare system saves €83 million yearly (24% of its COVID-19 burden), the national economy benefits €127 million (3% of its burden).

Economic burden of COVID-19 in the Netherlands with no annual autumn vaccination

Without ongoing annual vaccination, COVID-19 could cost the Netherlands almost **€4 billion** annually. The COVID-19 impact on the national economy is driven by productivity losses among the working population while the healthcare system impact is driven by COVID in older adults.



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Economic benefits of COVID-19 vaccination in the Netherlands

COVID-19 vaccination programmes help safeguard national productivity, reduce strain on healthcare systems, and protect vulnerable populations.

Annual autumn COVID-19 vaccination targeting individuals aged 60+ and high-risk groups, in line with the Dutch Health Council's 2023 recommendations, would generate

€210 million

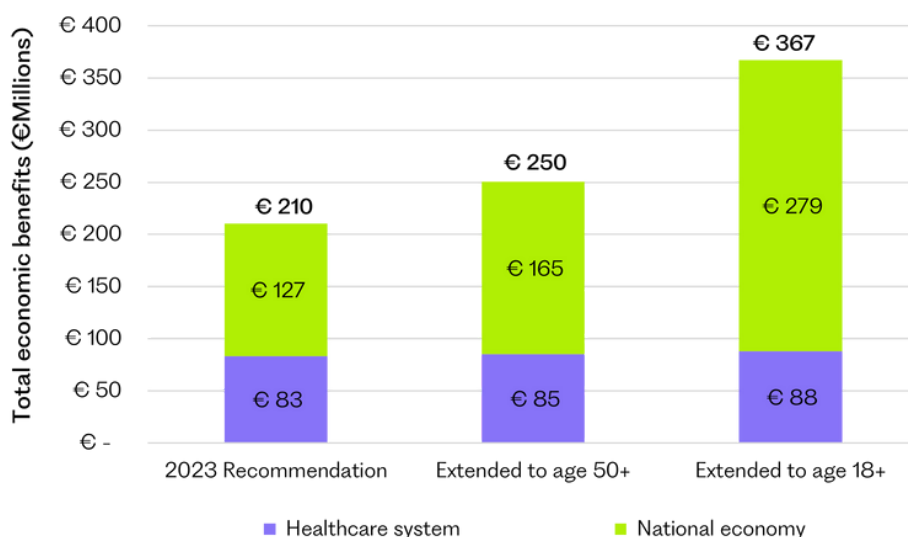
in annual economic benefits.

Extending COVID-19 vaccination eligibility to the general population aged 50+ and 18+ would increase the total economic benefit to

€250 million and €367 million per year

respectively.

Extension of the population eligible for COVID-19 vaccination would generate additional economic benefits as a result of **productivity gains**.



Note: All vaccination scenarios include eligibility for high-risk groups, such as immunocompromised individuals, frontline health and social care workers and care home residents.

We call on policymakers to:



Provide **continued investment in endemic COVID-19 vaccination programmes** and pandemic preparedness to safeguard economic resilience and public health.



Adapt a decision-making and funding framework that applies an investment model for prevention that **recognises the broader economic benefits of preventive interventions**.

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