

# Vaccination Significantly Reduced the Health Care Costs of Covid-19

Evonik's plant-derived cholesterol PhytoChol® is an important component in mRNA vaccines for Covid-19.

## Average health care costs for patients with Covid-19<sup>6, 7, 8, 9</sup>



Approximately  
**€ 101**  
for a patient  
recovering at home



Approximately  
**€ 7,000**  
for a patient in  
hospital in an  
intensive care unit  
(ICU)



Approximately  
**€ 32,000**  
for a patient in an  
ICU with respiratory  
assistance



Stay healthy<sup>5</sup>

## Comparing scenarios where a population of around 110 million are vaccinated or not vaccinated

Scenario with vaccination

102 m

1 m

4.1 m

149 k

2.7 k

4.8 k

Scenario without vaccination

32 m

15 m

53.9 m

5.2 m

302 k

537 k



Stay healthy<sup>1</sup>



Asymptomatic



Patients at home<sup>2</sup>



Patients in hospital<sup>3</sup>



Patients in ICU without respiratory assistance<sup>3</sup>



Patients in ICU with respiratory assistance<sup>4</sup>

Handprint refers to the positive impact a business or organization can have on ecological and socio-economical sustainability. Evonik's PhytoChol® contributes to its positive handprint.

**EVONIK'S HANDPRINT**  
Evonik contributed to a reduction in health care costs of

**€ 58.5 bn**

Difference:  
€ 58.5 bn

€ 60.1 bn

€ 1.6 bn

with vaccination without vaccination



Health burden

\* All calculations were provided by the WifOR Institute | 1. RKI (2021, June 21). RKI - Coronavirus SARS-CoV-2 - Antworten auf häufig gestellte Fragen zum Coronavirus SARS-CoV-2 / Krankheit COVID-19. | 2. Buitrago-Garcia, D. (2020, September 22). Occurrence and transmission potential of asymptomatic and presymptomatic SARS-CoV-2 infections: A living systematic review and meta-analysis (plos.org). | 3. RKI (2021, June 17). RKI - Coronavirus SARS-CoV-2 - Epidemiologischer Steckbrief zu SARS-CoV-2 und COVID-19. | 4. RKI (2021, June 07). DIVI Intensivregister. | 5. EMA, Anhang 1 - Zusammenfassung der Merkmale des Arzneimittels. Comirnaty, INN-COVID-19 mRNA Vaccine (nucleoside-modified) (europa.eu). | 6. Bundesministerium für Gesundheit (2020, October 14). Corona-Test-VO\_BAnz\_AT\_141020.pdf (bundesgesundheitsministerium.de). | 7. Calculated by statutory health insurance Barmer | 8. ÄrzteZeitung (2020, October 18). Was kostet Corona das Gesundheitswesen? (aerztezeitung.de). | 9. Charged by Barmer: from the start of COVID until October 18, 2020