

The effects of COVID-19 measures on traffic accidents in the Netherlands

Inge Krul, Christine Stam, Susanne Nijman



Aim

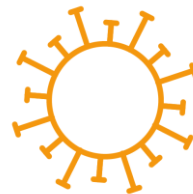
To gain insight into the effect of COVID-19 measures on the number of traffic accidents in the Netherlands.

Focus

Severe injuries (MAIS2+) after a traffic accident treated at emergency departments (EDs).

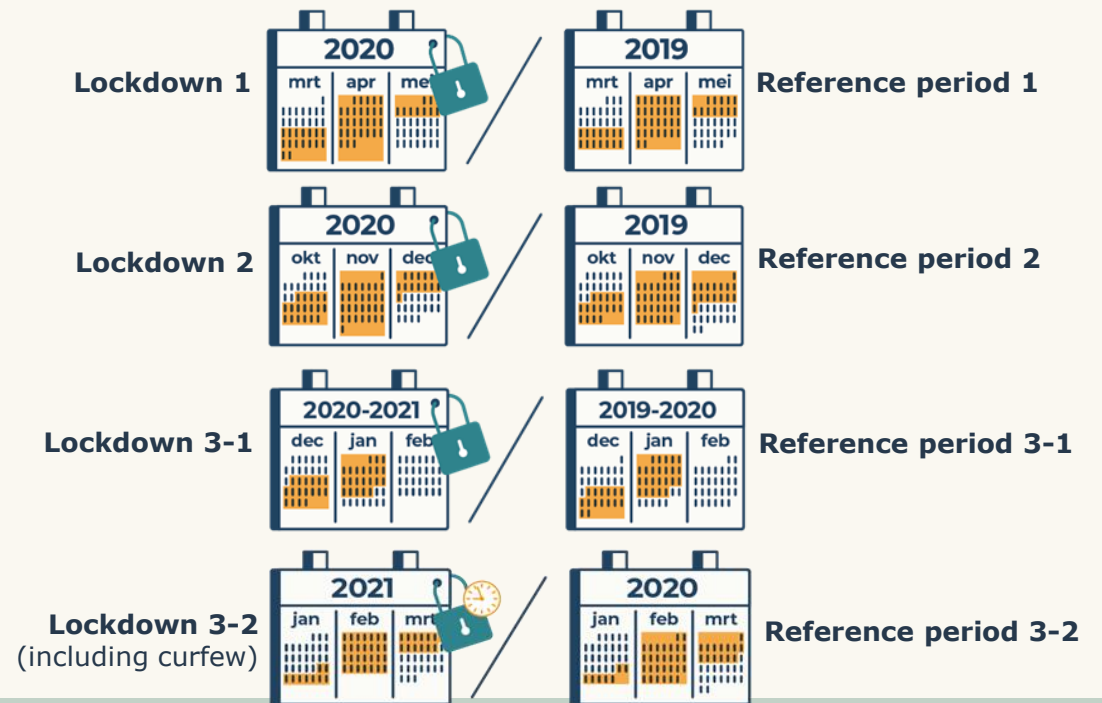
Methods

Comparing the number of ED-visits registered in the Dutch Injury Surveillance System before and during one year of COVID-19 measures. Data from 14 EDs are representative for the Netherlands.



One year of COVID-19 measures
(16 March 2020 – 14 March 2021)

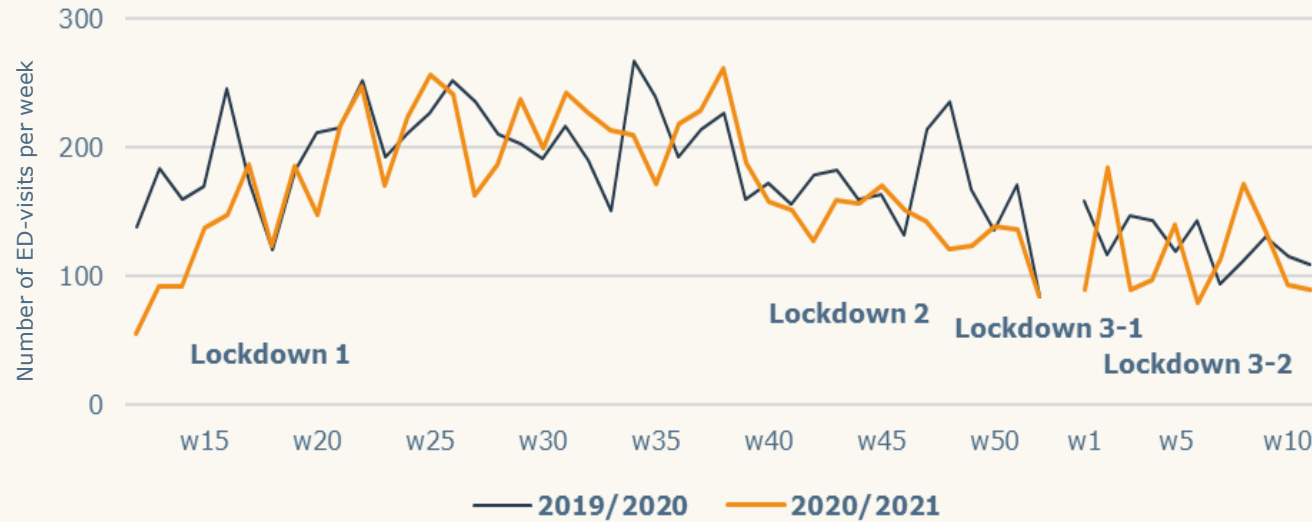
Lockdown / Pre-COVID



COVID-19 year versus pre-COVID year



Less patients were treated during the COVID-19 year



**COVID-19
year**
-8%

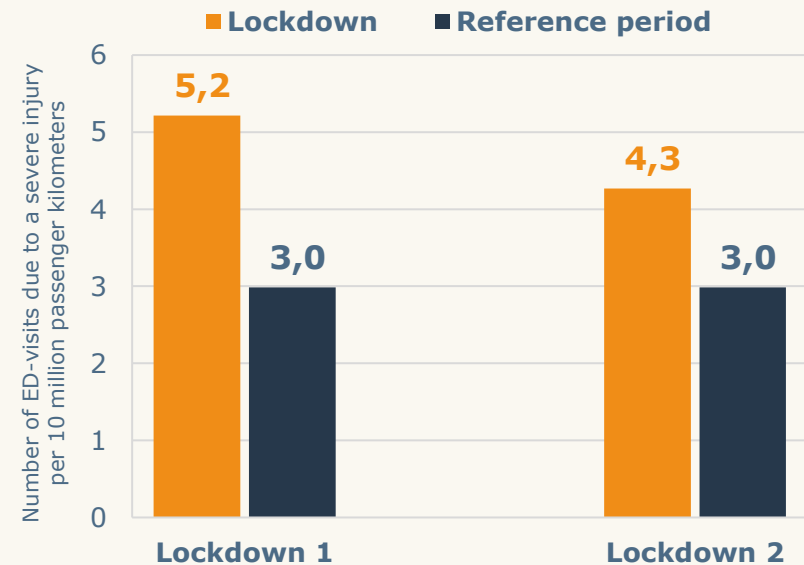
Lockdown 1
-25%

Lockdown 2
-17%

Lockdown 3-1
-14%

Lockdown 3-2
-1%

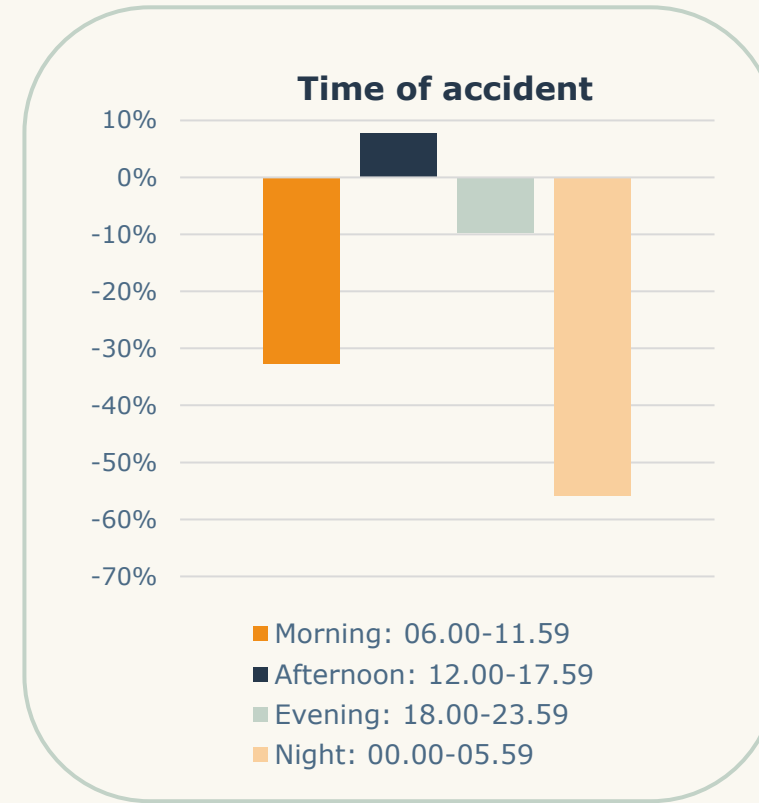
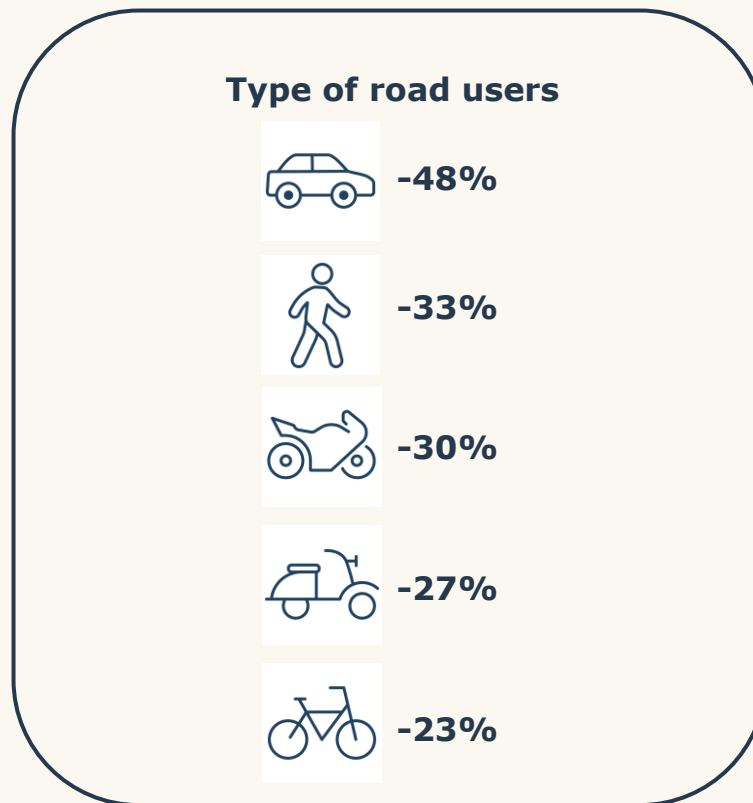
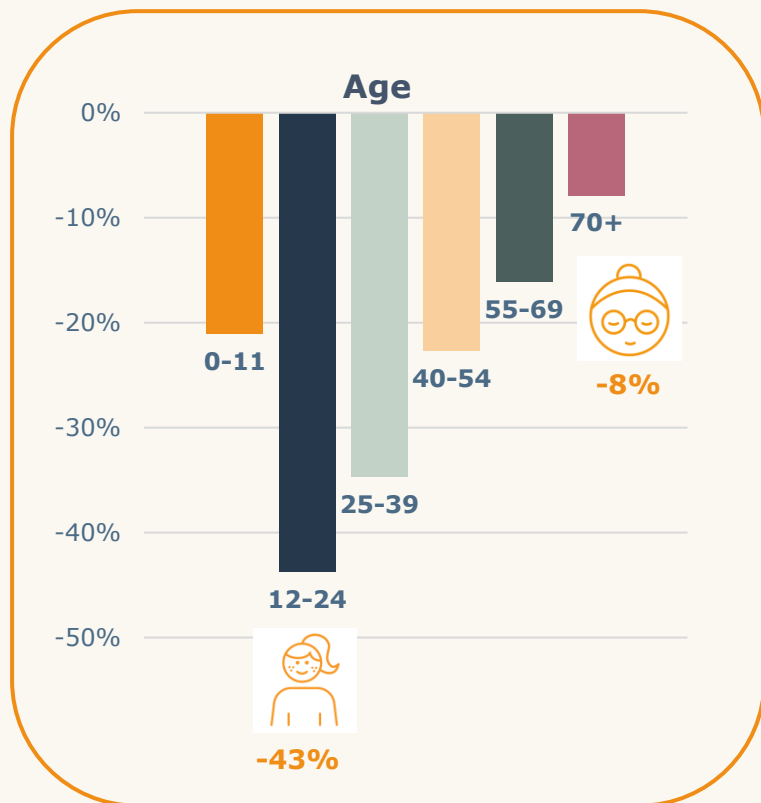
The probability of an ED visit* was in lockdown 1 and 2 significantly higher than in the corresponding reference period



*Number of ED-visits due to a severe injury per 10 million passenger kilometers



Lockdown 1 versus reference period 1



The changes in activities following the COVID-19 measures have led to changes in the number of severe injuries after traffic accidents. Moreover, patient and accident characteristics in the COVID-19 year differed significantly from the reference period.



Want to know more?

It's always a good time to talk about safety. Please contact us!

Inge Krul
Researcher
i.krul@veiligheid.nl