Second wave of Covid-19 in Switzerland

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#install.packages("unibeCols")

## Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

## Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

library(here)

here() starts at C:/Users/Demetrio/OneDrive - Università Commerciale Luigi Bocconi/Desktop/Chiavetta/PHD doc/Corsi PhD Berna/Corsi 2024/Course in R/My-First-R-project

library(tidyverse)

── Attaching core tidyverse packages ──────────────────────── tidyverse 2.0.0 ──  
✔ dplyr 1.1.4 ✔ readr 2.1.5  
✔ forcats 1.0.0 ✔ stringr 1.5.1  
✔ ggplot2 3.5.0 ✔ tibble 3.2.1  
✔ lubridate 1.9.3 ✔ tidyr 1.3.1  
✔ purrr 1.0.2

── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
✖ dplyr::filter() masks stats::filter()  
✖ dplyr::lag() masks stats::lag()  
ℹ Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors

library(lubridate)  
library(unibeCols)

## Introuction

The aim of this exercise is to visualize the increase in laboratory-confirmed cases of COVID-19 in Switzerland during autumn 2020

## Data

We read and process the data of laboratory-confirmed cases og Covid-19 in Switzerland as reported by [Federal OFfice of Public HEalth (http://https://idd.bag.admin.ch/)]

# Read data  
cases <- read\_csv(here("data/raw/COVID19Cases\_geoRegion.csv"))

#Process data   
region <- "CH"  
window\_start <- ymd("2020-09-01")  
window\_end <- ymd("2020-11-30")  
cases <- cases |>  
 filter(geoRegion == region & datum >= window\_start & datum <= window\_end) |>  
 select(datum, entries)  
cases

# A tibble: 91 × 2  
 datum entries  
 <date> <dbl>  
 1 2020-09-01 364  
 2 2020-09-02 417  
 3 2020-09-03 438  
 4 2020-09-04 427  
 5 2020-09-05 295  
 6 2020-09-06 170  
 7 2020-09-07 467  
 8 2020-09-08 387  
 9 2020-09-09 462  
10 2020-09-10 507  
# ℹ 81 more rows

[Figure 1](#fig-cases) shows the number of lavorairy.confirmed cases of COVID-19 in Switzerland from r window\_start` to 2020-11-30.

ggplot(cases, aes(x = datum, y = entries)) +  
 geom\_bar(stat = "identity", fill = unibeSaphire()) +   
 labs(x = "",   
 y = "Laboratory-confirmed cases") +   
 theme\_minimal()

|  |
| --- |
| Figure 1: Laboratory-confirmed cases of COVID-19 in Switzerland in 2020. |

##Conclusions

The number of laboratory-confirmed cases