Trend report SOP

# Description

This SOP describes the set-up and execution for generating the daily trend report.

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# What you need:

* R studio
* Github account / Github desktop
* Access to metabase
* Access to Y: drive
* Access to SALT
* Access to onedrive repository

# Setup

## Downloading Rstudio:

## Installing packages:

To install a package – run “install.packages(“package\_name”).

Additionally, two other packages can’t be installed using “install.packages()”.

1. Metabaser: see here for more info on installing metabaser: <https://discover.hres.ca/wiki/index.php?title=Request_Metabase_or_GitLab_Access>
2. PHACTrendR: first install the devtools package “install.packages(“devtools”)”, then run the following command: devtools::install\_github(“Michael-Elten/PHACTrendR”)

# Running the report

## Generating the powerpoint

To generate the trend report, you must ensure that the working directory is set to hpoc\_daily\_trend, and then run the following function: `PHACTrendR::generate\_trend\_report()`. The created powerpoint will be located in the hpoc\_daily\_trend folder, and then CPHO table will be located in the “output” subfolder.

## Formatting tasks

Currently, some touch-ups to the final trend report must be done:

* Moving the summary bullets slide from the very end to slide 2, and setting spacing of paragraphs to 0
* Centering the cases/deaths table (slide 3)
* Centering the hosp/ICU table (slide X)

## Chief Science report

On Thursdays only, the “Chief Science Report” must be generated as well. This is a subset of the trend report. It can be generated using the PHACTrendR::generate\_Nemer\_report() function (make sure the working directory is set to the hpoc\_daily\_trend folder.

# Data sources

### Case report form data (DISCOVER)

[https://discover-metabase.hres.ca/auth/login?](https://discover-metabase.hres.ca/auth/login?redirect=%2F)

Y:\PHAC\IDPCB\CIRID\VIPS-SAR\EMERGENCY PREPAREDNESS AND RESPONSE HC4\EMERGENCY EVENT\WUHAN UNKNOWN PNEU - 2020\EPI SUMMARY\Trend analysis\\_Current\\_Source Data\CaseReportForm\trend\_extract.rds

Maintained by the data synthesis team within SED – this database contains case report form information submitted by PTs to PHAC. The trend extract file is produced Sun-Thurs by the R coder, and contains a subset of variables needed in the trend report.

### Hosp/ICU data (GoogleSheets)

<https://docs.google.com/spreadsheets/d/17KL40qJ8tpFalFeBv1XDopTXaFm7z3Q9J2dtqqsQaJg>

Maintained by the daily report epi – this sheet contains daily numbers of total hospitalizations and ICU for each province from their public facing websites. If a province does not provide an update, the previous day’s values are carried over. Note – for the trend report, we do retrospective corrections for AB, based on their dashboard.

### PT case and death data (Infobase)

<https://health-infobase.canada.ca/src/data/covidLive/covid19.csv>

This dataset is maintained by the daily report epi. It contains many variables, but is mainly used for publically reported cases and deaths. It gets updated between 7-9pm daily. You can check the date on the [infobase page](https://health-infobase.canada.ca/covid-19/epidemiological-summary-covid-19-cases.html) to be sure that its been updated.

### Infobase corrections source (Googlesheets)

<https://docs.google.com/spreadsheets/d/1lHTwMuZlGq8hXpiFMamy46jRkcBqetP16-1cYkfELJE>

This dataset is maintained by the trend epi. It contains information on the manual corrections made to the infobase dataset, in order to smooth data reporting irregularities caused by data dumps, and corrections by the provinces.

### Laboratory data (SALT)

Y:\PHAC\IDPCB\CIRID\VIPS-SAR\EMERGENCY PREPAREDNESS AND RESPONSE HC4\EMERGENCY EVENT\WUHAN UNKNOWN PNEU - 2020\EPI SUMMARY\Trend analysis\\_Current\\_Source Data\SALT\submitted+reports.csv

This dataset is manually saved by the daily report epi, and a copy gets written to the above folder when they run their PCO bullets .R code (around 5-6pm). If any issues, can download the data directly from CNPHI via the following steps:

1. Log into **CNPHI** (<https://www.cnphi-rcrsp.ca/cnphi/index.jsp>) after 6pm
2. Navigate to SALT via the **Laboratory** drop-down menu
3. Navigate to the **Submitted Reports** section via the **Menu** drop-down menu
   * Set the start date at 01-01-2020
   * Ensure that “Incremental” is checked off
   * Select “Export to .**CSV**”
4. Save file (Submitted+Reports.**csv**) to **\\_Current\\_Source Data\SALT**

### International data (OWID)

<https://covid.ourworldindata.org/data/owid-covid-data.csv>

<https://github.com/owid/covid-19-data/tree/master/public/data>

Maintained by “OurWorldInData”, this data source contains data on cases, deaths, vaccines, etc. for all countries.

# Troubleshooting

It may happen that for whatever reason, the code does not work. Don’t panic! First thing that should be done is to verify the data sources infobase, hosp/icu google sheet, etc. to ensure that data is entered as expected.

1. Blanks in hosp/icu table
2. Error generating report (it is open locally)