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| **COVID19 Dashboard** |

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| **Owner/ Author:** | Megan McNicol, Senior Information Analyst, Primary Care Team |
| **Review Date:** | 2nd September 2020 |

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| **Version** | **Date Approved** | **Name** | **Job Title** | **Division** |
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| **Document title** | **Document Filepath** |
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Basics

## File Location

Dashboard folder is here: [\\nssstats01\PrimaryCare\Megan\COVID-19-Publication-Dashboard2](file:///\\nssstats01\PrimaryCare\Megan\COVID-19-Publication-Dashboard2)

Publication folder is here: [\\freddy\DEPT\PHIBCS\PHI\Publications\Health Topic\HPS\Covid-19](file:///\\freddy\DEPT\PHIBCS\PHI\Publications\Health%20Topic\HPS\Covid-19)

These are separate as the dashboard needs run off the stats drive.

## Dashboard Location

PRA Dashboard (password protected): <https://scotland.shinyapps.io/nhs-covid19-weekly-pra/>

Live Dashboard: <https://scotland.shinyapps.io/nhs-covid19-weekly/>

## Requirements

You need the following libraries installed in R ( You can just copy and paste this to install packages) :

install.packages (“shiny”)

install.packages (“plotly”)

install.packages (“shinyWidgets”)

install.packages (“dplyr”)

install.packages (“DT”)

install.packages (“shinycssloaders”)

install.packages (“shinyjs”)

install.packages (“readr”)

install.packages (“stringr”)

install.packages (“forcats”)

install.packages (“flextable”)

install.packages (“tidytable”)

install.packages (“shinyBS”)

install.packages (“glue”)

## Shiny Account

Logon details for <https://www.shinyapps.io/> :

Username: phs.isdgeneralpractice@nhs.net

password: WeeklyDashb0ard

## Staff Involved in COVID19 weekly report

|  |  |  |
| --- | --- | --- |
| COVID19 weekly Publication (data questions) | Jade Carruthers (lead) | Principal Information Analyst, Stats Gov |
| Kathryn Burt | Principal Information Analyst, Service Access |
| David Scott | Principal Information Analyst, Primary Care |
| Megan McNicol | Senior Information Analyst, Primary Care |
| COVID19 weekly R Shiny Dashboard (dashboard questions) | Megan McNicol | Senior Information Analyst, Primary Care |
| Grame Gowans | Information Analyst, Stats Gov |
| Deployment/GITHub, Technical questions | Jaime Villacampa | Principal Information Analyst, Quality Indicators |
| Laura Downie | Information Analyst, Quality Indicators |

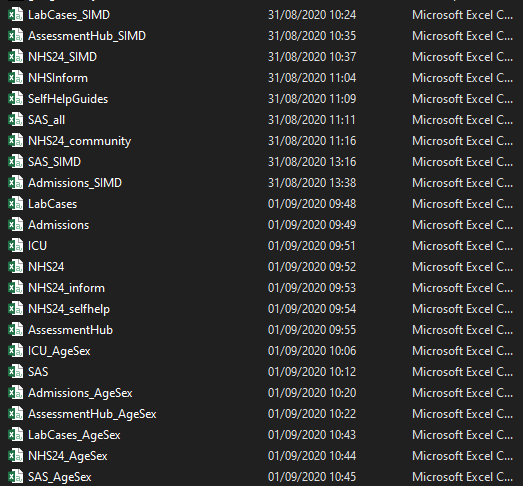
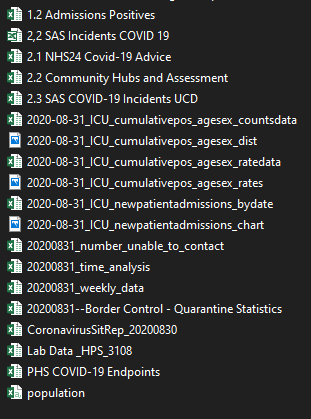
Updating the Dashboard

## Updating data

Data comes in throughout Monday and can be found here:

[\\freddy\DEPT\PHIBCS\PHI\Publications\Health Topic\HPS\Covid-19](file:///\\freddy\DEPT\PHIBCS\PHI\Publications\Health%20Topic\HPS\Covid-19)

Data that needs updated is here: [\\nssstats01\PrimaryCare\Megan\COVID-19-Publication-Dashboard2](file:///\\nssstats01\PrimaryCare\Megan\COVID-19-Publication-Dashboard2)



I keep track of what’s been updated by sorting by date in the dashboard folder.

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| **Data Coming in**  [\\freddy\DEPT\PHIBCS\PHI\Publications\Health Topic\HPS\Covid-19](file:///\\freddy\DEPT\PHIBCS\PHI\Publications\Health%20Topic\HPS\Covid-19) | **What needs updated**  [\\nssstats01\PrimaryCare\Megan\COVID-19-Publication-Dashboard2](file:///\\nssstats01\PrimaryCare\Megan\COVID-19-Publication-Dashboard2) |
| Admissions Positive | Admissions |
| SAS Incidents COVID19 | SAS |
| SAS\_all |
| Community Hubs and Assessment | AssessmentHub |
| AssessmentHub\_AgeSex |
| AssessmentHub\_SIMD |
| SAS COVID-19 Incidents UCD | SAS\_SIMD |
| NHS24 COVID19 Advice | NHS24 |
| NHS24\_AgeSex |
| NHS24\_SIMD |
| ICU\_newpatientadmissions\_bydate | ICU |
| ICU\_cumulativepos\_agesex\_ratedata | ICU\_AgeSex |
| CoronavirusSitRep\_ | NHS24\_inform |
| NHS24\_selfhelp |
| Lab Data \_HPS\_ | LabCases |
| LabCases\_AgeSex |
| LabCases\_SIMD |
| PHS COVID-19 Endpoints | NHS24\_community |

There is also Admissions data that Diane Gibbs sends us. She emails to let us know it’s ready

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| **Data Coming in** | **What needs updated** |
| [\\nssstats01\PHSCOVID19\_Analysis\RAPID Reporting\RAPID CHI & DOA](file:///\\nssstats01\PHSCOVID19_Analysis\RAPID%20Reporting\RAPID%20CHI%20&%20DOA%20) | Admissions\_AgeSex |
| Admissions\_SIMD |

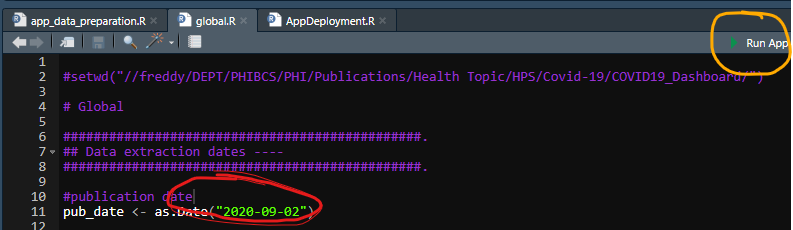
## Uploading new data to dashboard

To update the data in the dashboard open the “app\_data\_preparation.R” in this folder [\\nssstats01\PrimaryCare\Megan\COVID-19-Publication-Dashboard2\](file:///\\nssstats01\PrimaryCare\Megan\COVID-19-Publication-Dashboard2\%20)

This reads in the csv files, changes some formatting and saves the data as an RDS file.

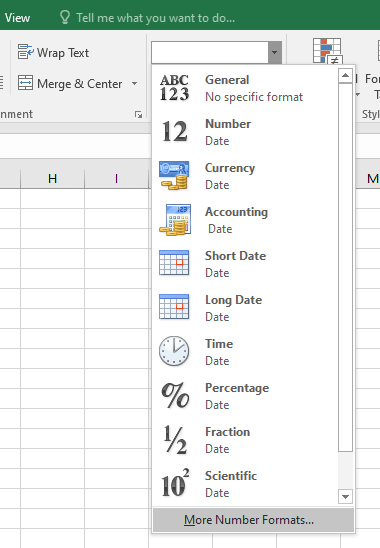
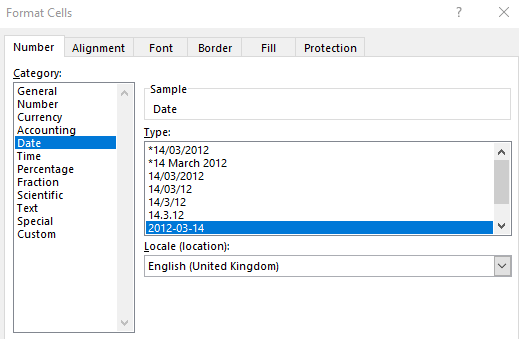
The publication date needs changed in “Global.R” (in red below).

After this select “Run App” (in yellow below). This will load the dashboard up. Click through everything to make sure data has loaded and is being displayed correctly.



### Common erros is data is not displaying correctly

* Age group 5-14 is displayed as “May 2014”. To fix this add an apostrophe before the age group ‘5-14 so that excel recognises it as a string.
* Data is all over the place. This could be due to data being copied over incorrectly. Make sure that zero values are 0 and not dashes (-)
* No data appears. This can be due to dates not being formatted correctly as dates. To fix this select the date column, and then go to formatting -> More Number formats -> Dates -> YYYY-MM-DD. Save. Run R syntax again



Deployment Script

## App deployment.R

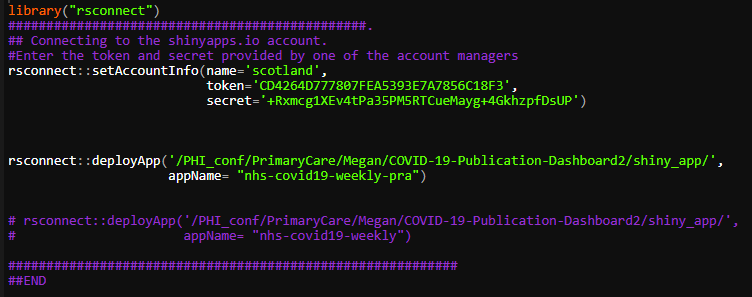
**Before deployment – run app from Global.R to make sure everything is working as it should!**

This is the only script you need to run to deploy the dashboard. Running the first deployApp section will push the dashboard to the password protected webpage. At publication time uncomment the deployApp section and run it – this pushes the dashboard to the live webpage.

This is the login credentials for R to access the webpage. The secret code gets updated occasionally – Ask Jaime for the new one.

This pushes the dashboard to the PRA password protected page.

This starred out section is what pushes the dashboard to the live page where it can be seen publicly. Only run this at publication time!



When redeploying it will ask if you are sure – type “y” to continue with deployment. It will take a couple of minutes to run and will open the dashboard up once it’s done so you can review.



If deployment fails for any reason despite working from Global.R, check with Jaime to see if the token code has changed. Update Deployment script as required.

To be able to show others the app they will need the shinyapps.io account and password details that you used to sign in.