**R session**

**Data visualization for public health**

**Thursday 08/02**

**8:30 – 10:30 CET**

**Agenda**

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| **Introduction** | **15 min** | **8:30 – 8:45** |
| **Reminders about data visualization with {ggplot2}** | **15 min** | **8:45 – 9:45** |
| **Managing dates**   * Live demo * Practice! | **20 min** |  |
| **Making epicurves**   * Live demo * Practice! * Debriefing | **60 min** | **10:15 – 10:30** |
| **Wrap-up** | **10 min** | **10:15 – 10:30** |

Material:

* Scripts
  + Saw: hepC\_analysis.R
  + Samuir: CBX\_analysis.R

**Email sent**

During this session we’ll discuss about joining, pivoting and grouping data using real MSF project data from Myanmar (Saw) and Bangladesh (Samiur).

Preliminary agenda:

* Introduction (10 min)
* Hepatitis C patient follow-up database in Myanmar, Saw (45 min)
  + Joining datasets
  + Grouping data to extract and summarize information
* Inter-section epi sitrep in Bangladesh, Samuir (20 min)
  + Pivot data from wide format to long format
  + Create a plot with a aggregated data in a long format
* Explore the epirhandbook to learn more (15 min)
* Response to R questions you have (20 min)
* Session wrap-up (10 min)

Recommended reading and viewing before the session:

In the epirhandbook:

* Joining data: <https://epirhandbook.com/en/joining-data.html>
* Grouping data: <https://epirhandbook.com/en/grouping-data.html>
* Pivoting data: <https://epirhandbook.com/en/pivoting-data.html>

Intro course, on the applied epi website:

* Watch the video from the module 7 ‘Transforming data: joins, pivots, and factors’ available: <https://files.appliedepi.org/media/mod7>