

Emory COVID-19 Response Collaborative

EpiRHandbook Online Seminar

August 2021

Day 1: Data management (13 August)

Time	Session content	Facilitator
10:00	Introduction to webinar series	ECRC Faculty
10:05	Introduction to EpiRHandbook content	Neale
10:10	Why R?	Alex
10:20	Case study layout & Rmarkdown & projects	Alex
10:30	Parameterisation & Automation	Alex
10:35	File paths & Importing data	Alex
10:40	Case study: importing data	Alex
10:45	Data cleaning	Henry
10:50	Case study: data cleaning	Henry
10:55	Merging data	Henry
11:00	Case study: merging data	Henry
11:05	Descriptive analysis	Henry
11:10	Case study: descriptive analysis	Alex
11:15	Statistical analysis	Alex
11:20	Case study: statistical analysis	Alex
11:25	Logistic regression	Henry
11:30	Case study: logistic regression	Henry
11:35	Q&A session	Team

Day 2: Data visualisation (20 August)

Time	Session content	Facilitator
10:00	Introduction to part two of series	Neale
10:05	Introduction to visualisation (ggplot2)	Neale
10:10	{ggplot2} syntax & geometries	Neale
10:15	{ggplot2} aesthetics	Neale
10:20	Faceting & highlighting	Neale
10:25	Scales & axis labels	Neale
10:30	Themes	Neale
10:35	Barplots	Neale
10:40	Epicurves	Neale
10:45	Demographic pyramids	Neale
10:50	Dynamic labels & captions	Neale
10:55	Combining plots	Neale
11:00	Basic GIS	Alex
11:15	Q&A session	Team