DATA VISUALIZATION

This data visualization (dataviz) infographics presents six plots based on COVID-19 data from hospitalized patients during the pandemic Spanish first wave. Each graphic explores different statistical concepts.

This **Balloon plot** is a contingency table for the frequency of the different diagnostics and the status, individually and jointly.

How diagnostic and status were related?

Rose diagram (Florence Nightingale) depicts different categories in sections with areas proportional to the data in the category.

Which proportion of women were daily hospitalized due to COVID-19?

This **Barplot** shows that there was no relationship between the length of ICU stay and age.
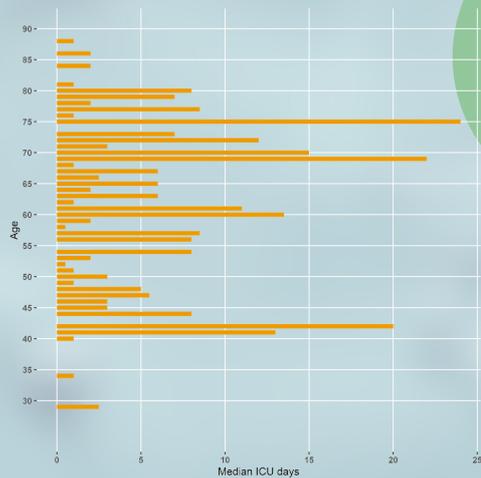
Was the length of ICU stay related to patient's age?

What was the relationship among patient characteristics and ICU stay?
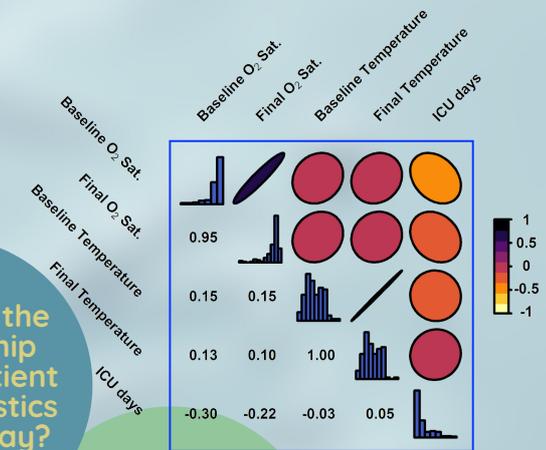
Correlation plot represents associations between factors (e.g. oxygen saturation) using ellipses (circumference=no relationship).

How hospitalizations were temporarily distributed?

How did patients move through several states after hospitalization?
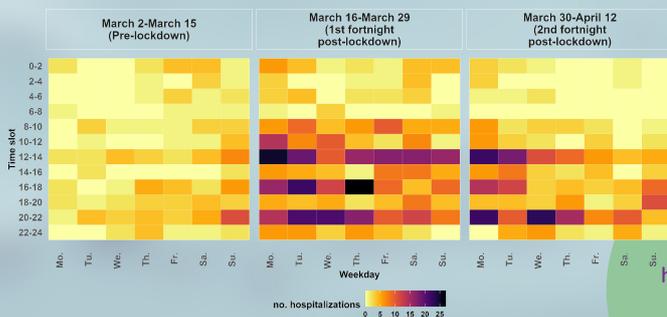
This **Calendar plot** represents hospitalizations over time with more intense colors associated with larger magnitudes.

Sankey Diagram depicts flows of individuals (e.g. patients) through different states.

Freq — 1500, 1000, 500

Transfer, Discharge, Death, Total Diagnosis

Cold Stage, Breathing Diff., Fever, Cough, Others, Total Status

March 2020 | **April 2020**

Total / Women

Age / Median ICU days

Baseline O_2 Sat., Final O_2 Sat., Baseline Temperature, Final Temperature, ICU days

	Baseline O_2 Sat.	Final O_2 Sat.	Baseline Temperature	Final Temperature	ICU days
Final O_2 Sat.	0.95				
Baseline Temperature	0.15	0.15			
Final Temperature	0.13	0.10	1.00		
ICU days	-0.30	-0.22	-0.03	0.05	

March 2-March 15 (Pre-lockdown) | March 16-March 29 (1st fortnight post-lockdown) | March 30-April 12 (2nd fortnight post-lockdown)

Time slot: 0-2, 2-4, 4-6, 6-8, 8-10, 10-12, 12-14, 14-16, 16-18, 18-20, 20-22, 22-24

Weekday: Mo., Tu., We., Th., Fr., Sa., Su.

no. hospitalizations — 0 5 10 15 20 25

Admission, Ward, Death, ICU, Discharge
n=151, n=275, n=78, n=1538, n=217