Health Disparities
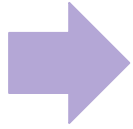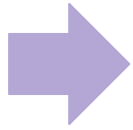
An Analysis of Access to Healthcare in Barcelona Neighborhoods

Is there a relationship between the average income of Barcelona neighborhoods and the number of health care centers and hospitals available in them?
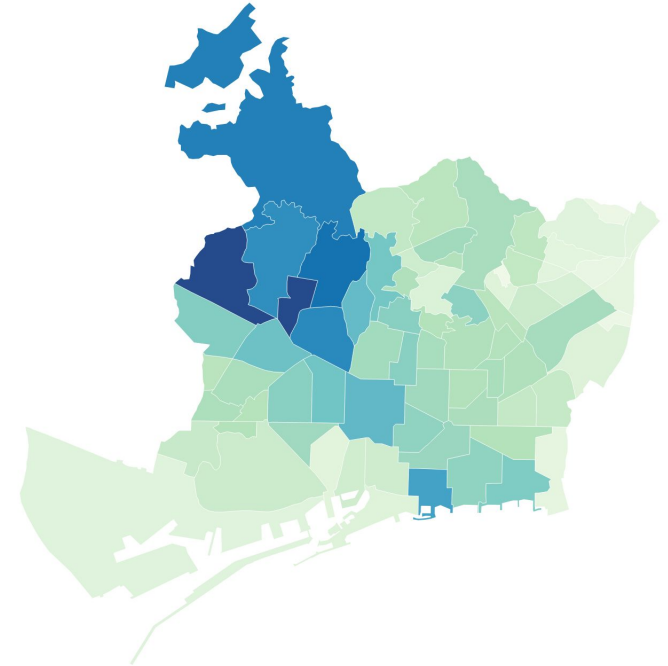
Hypothesis: There is a positive correlation between the average income of the neighborhoods in Barcelona and the number of health care centers and hospitals available in them. Neighborhoods with a higher average income will have more health care centers and hospitals.

Summary of Findings on Healthcare Distribution in Barcelona's Neighborhoods

1. **Healthcare distribution highlighting income disparity**

2. **Healthcare accessibility**

3. **Correlation insights**

4. **Population dynamics**

5. **Possible solutions for future analysis**

Median income in the city of Barcelona (€)

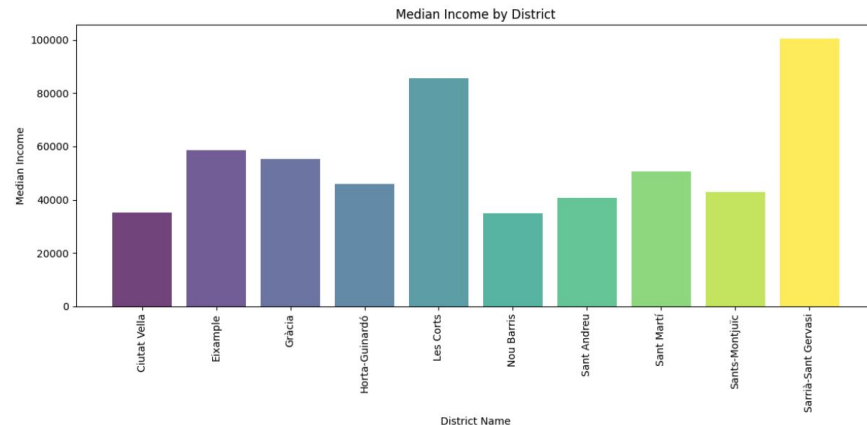28117   131719

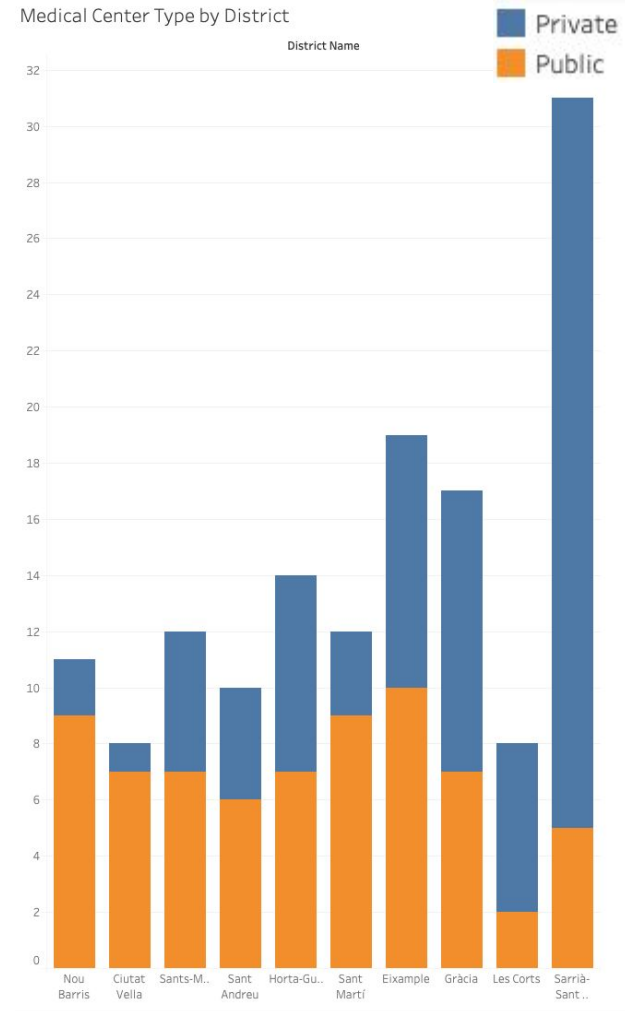Datos cartográficos: BCN • Creado con Datawrapper

Income Disparity

01 This economic disparity reflects in healthcare access, with affluent areas like Sarrià-Sant Gervasi boasting more private healthcare centers.

02 A vast income range across neighborhoods with some much wealthier, suggesting uneven economic distribution.
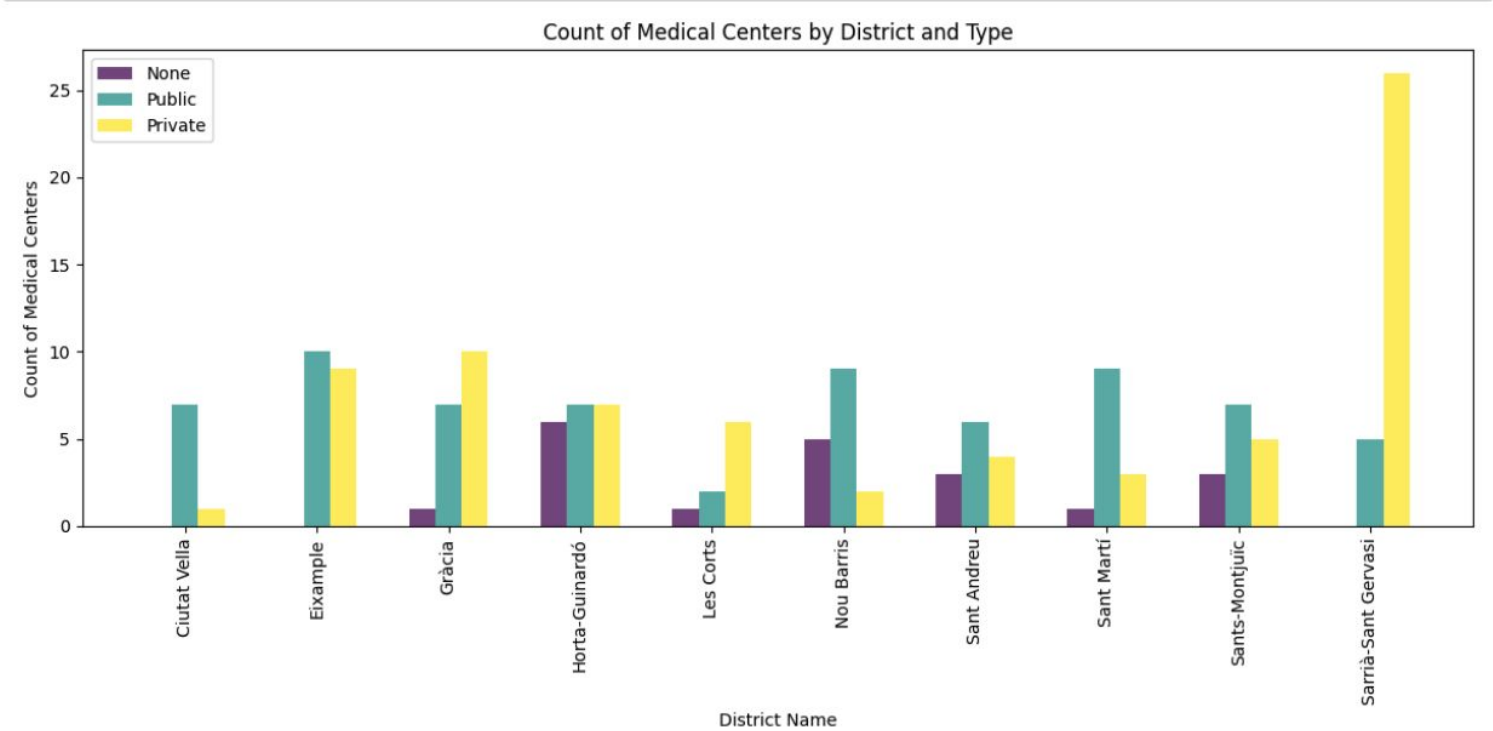

Median Income by District

Healthcare Accessibility

- Public medical facilities are more evenly spread, but the presence of private centers skews towards wealthier districts.

- Notably, Horta-Guinardó's lack of medical centers points to significant healthcare gaps that need attention.
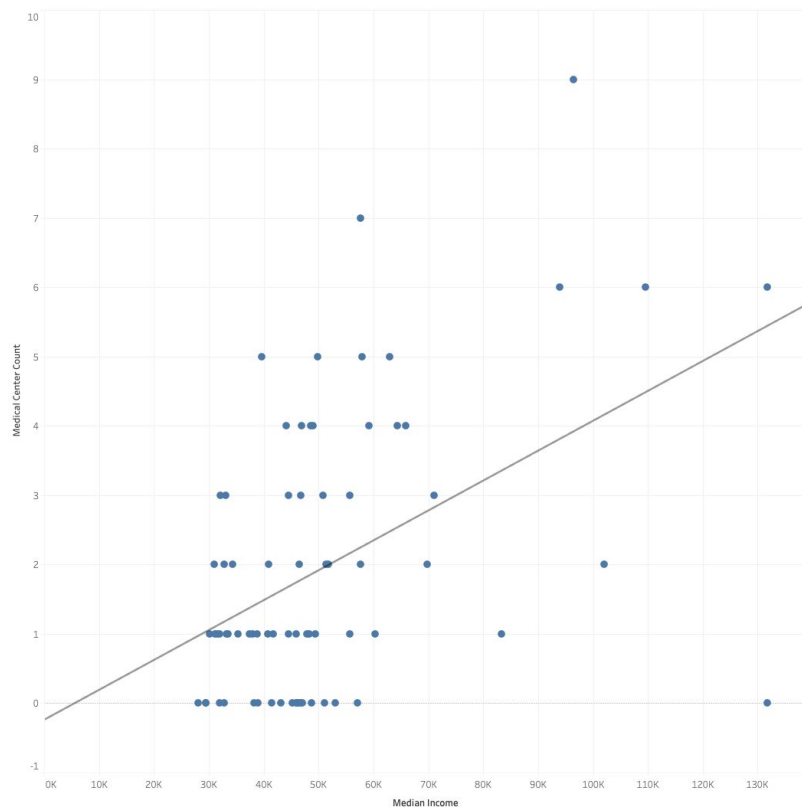

Medical Center Type by District

Healthcare Accessibility

Count of Medical Centers by District and Type
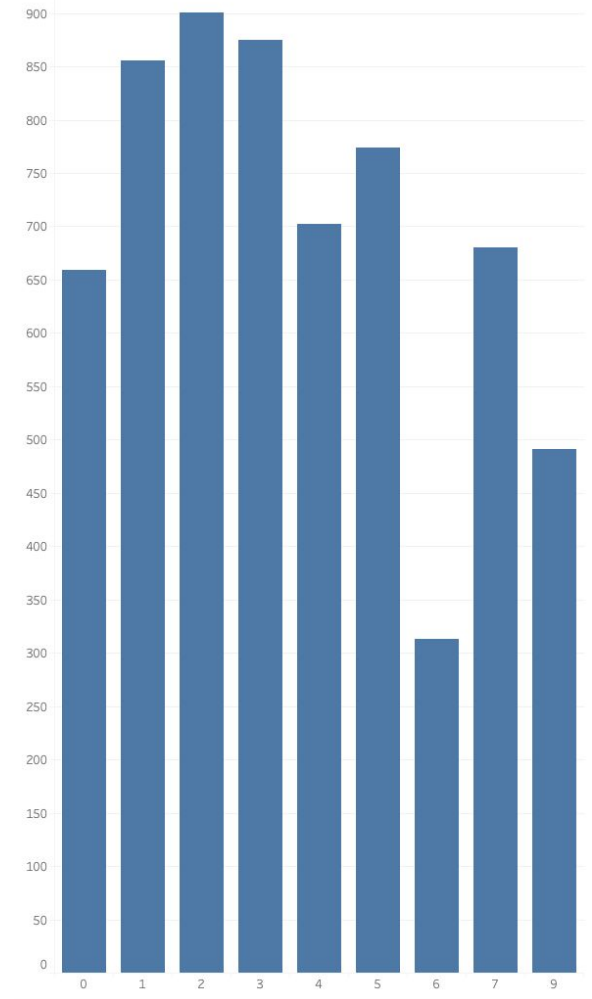
Correlation Insights

01 Wealthier neighborhoods have better access to healthcare, with a tendency for a higher proportion of private centers.

02 A moderate positive correlation exists between median income and medical center distribution, both in total number and per population density.
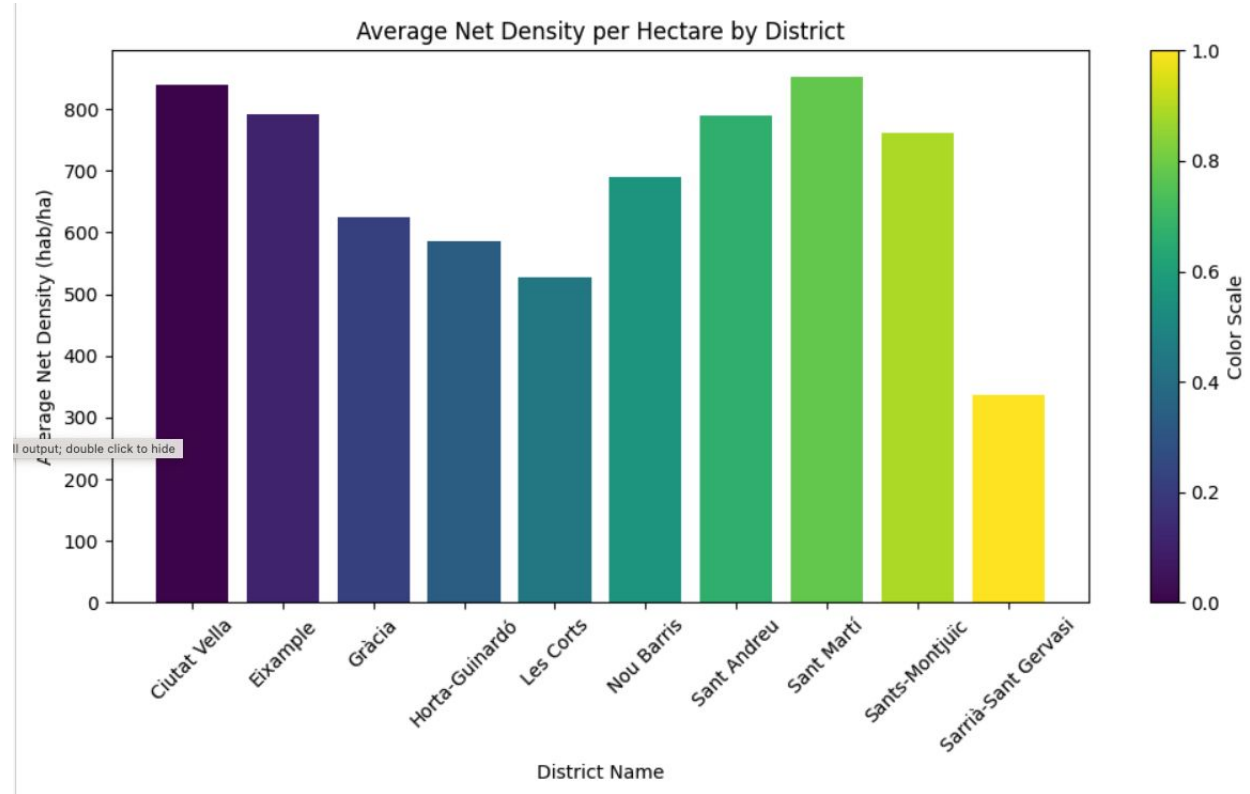
Population Dynamics

- Population density doesn't predict healthcare facility availability.

- This indicates that other factors beyond population metrics might shape healthcare infrastructure.
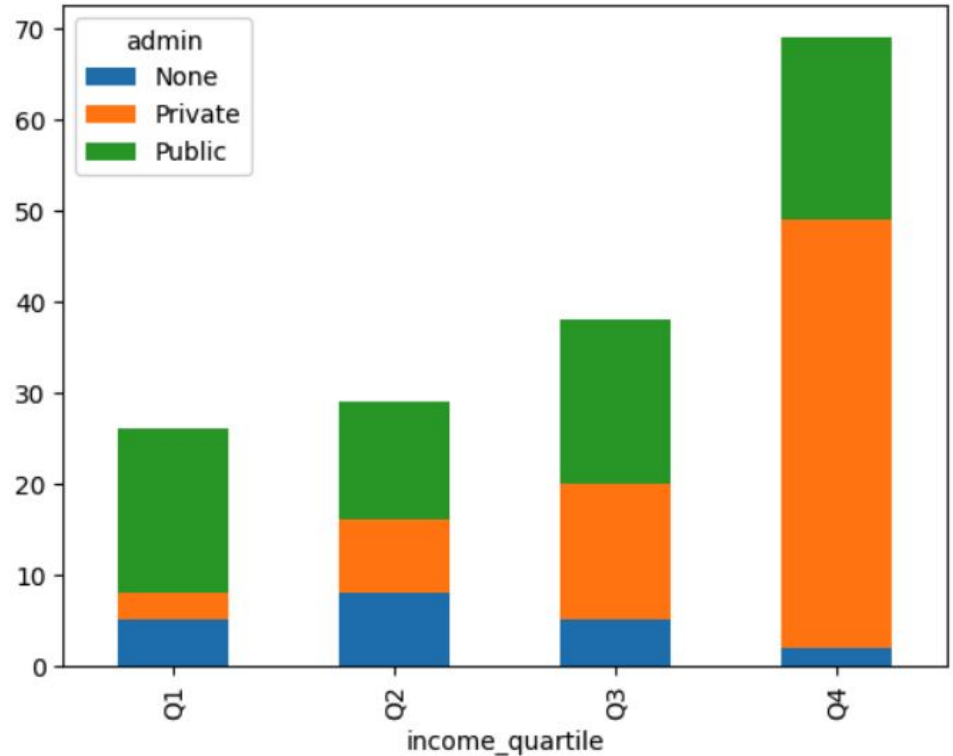
Population Dynamics

- Better access to healthcare per person in less densely populated areas.

- Lower healthcare availability in more densely populated areas.

Average Net Density per Hectare by District

Possible Solutions and Future Analysis Directions

01 Encourage equitable distribution of public healthcare facilities to address accessibility gaps in underprivileged neighborhoods.
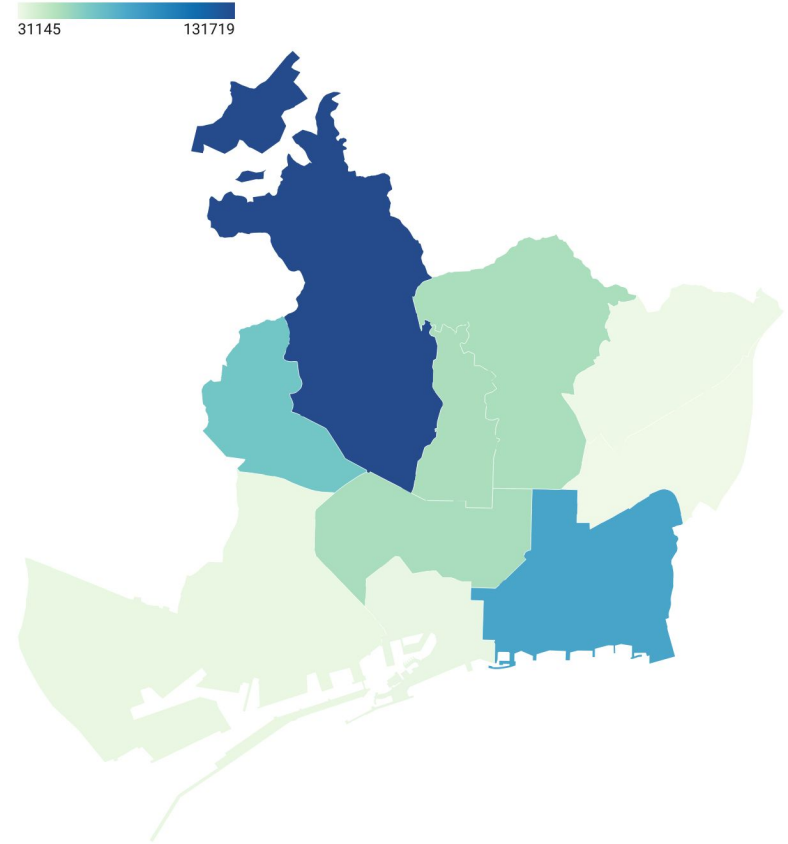
02 Urban Planning

Possible Solutions and Future Analysis Directions

03   Policy Making

04   Implement policies to incentivize public healthcare services in lower income areas, balancing the healthcare facility distribution.

Average Income in the city of Barcelona (€)

31145   131719

Map data: BCN • Created with Datawrapper

Possible Solutions and Future Analysis Directions

Further Research:

Advanced statistical analyses, like regression modeling controlling for various factors, could yield deeper insights.

Future studies should also consider residential areas and historical investment patterns in healthcare infrastructure.

Thank you for listening!