

## Descriptive Analysis of Patients

*Report for Vall d'Hebron Hospital (fictional)\**

---

### Summary

- The most influential variables are: Systolic Blood Pressure, Hypertension, Age, Cholesterol Levels, and BMI Levels.
  - There is a **259.88% increase** in positive cases among patients aged 40–50.
  - Systolic pressures of **130** show **59.64%** of positive CVR cases, while pressures of **140** show **76.28%**.
  - It is crucial to maintain a healthy lifestyle including proper nutrition and physical exercise to reduce the impact of age on CVR.
- 

### Conclusions and Recommendations

The analysis shows that the risk of developing cardiovascular problems is mostly influenced by the patient's age and lifestyle. Variables such as cholesterol levels, hypertension, and BMI can be kept within normal ranges by maintaining healthy routines such as eating a balanced diet and engaging in daily physical activity.

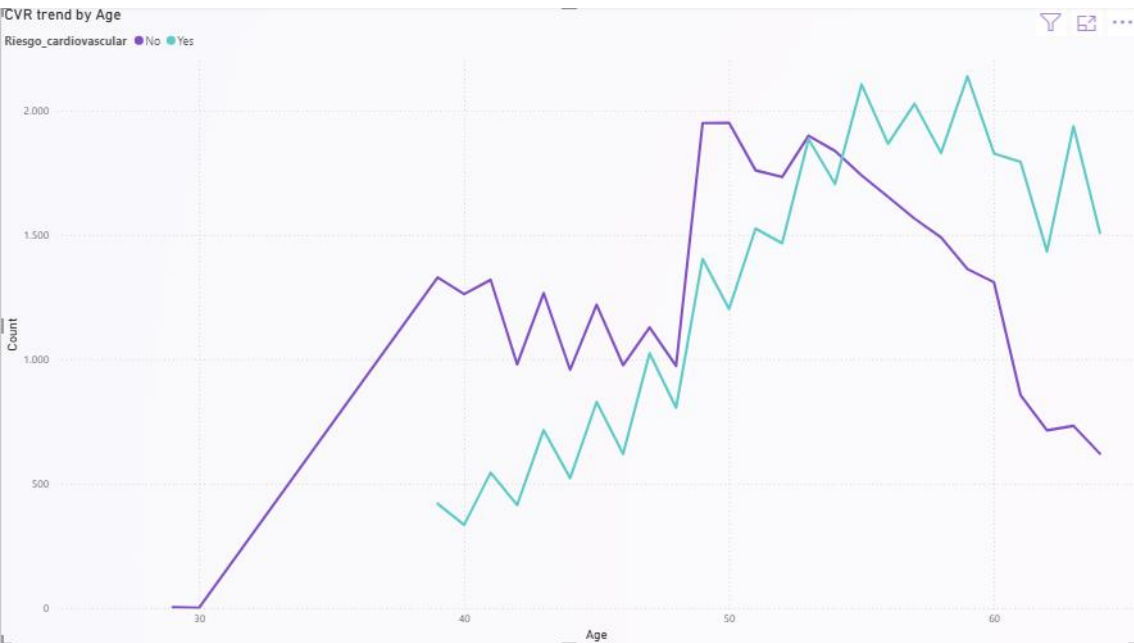
#### **Evidence:**

- From the age of 40, the first positive cases of cardiovascular risk begin to appear, with an increase of **259.88%** in the first decade (40–50 years) and **51.99%** in the second (50–60 years).
- **84.88%** of positive hypertension cases (10,379) also have a positive cardiovascular risk.
- Systolic pressures greater than **125** already represent a problem, with **59.64%** of positive CVR cases at 130 mmHg and **76.28%** at 140 mmHg.
- Obesity shows the highest CVR rate with **62.88%** among BMI categories.
- Type 3 cholesterol presents a positive CVR rate of **76.23%**.

# Detailed Analysis

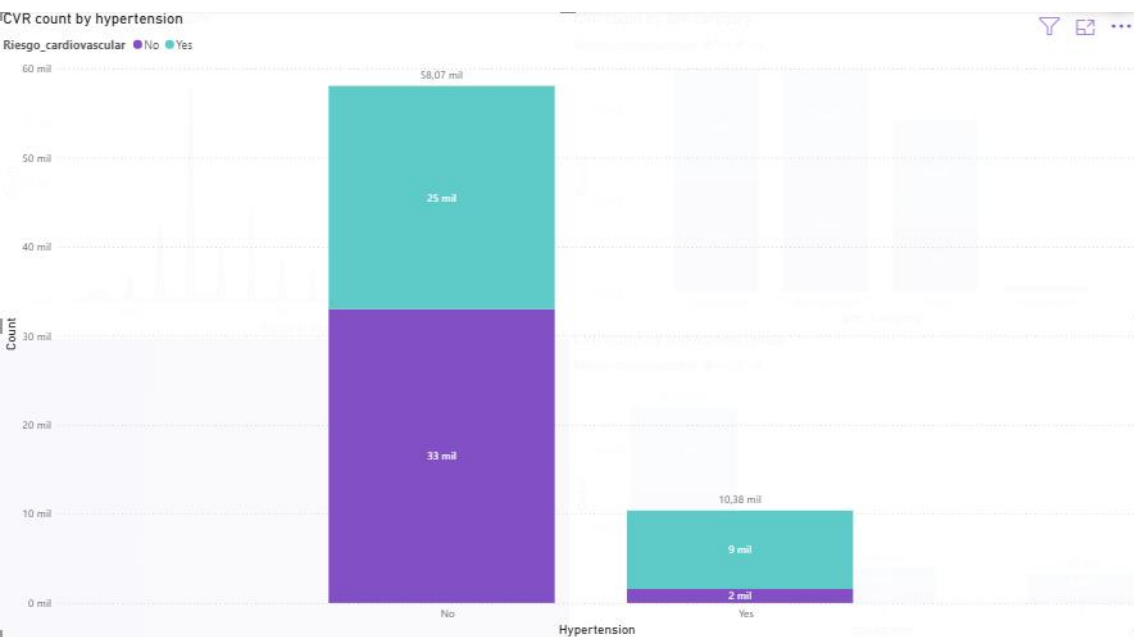
## 1. CVR Trend by Age

From age 40 onwards, the first positive cases of cardiovascular risk begin to appear, with an increase of **259.88%** in the first decade (40–50 years) and **51.99%** in the second (50–60 years).



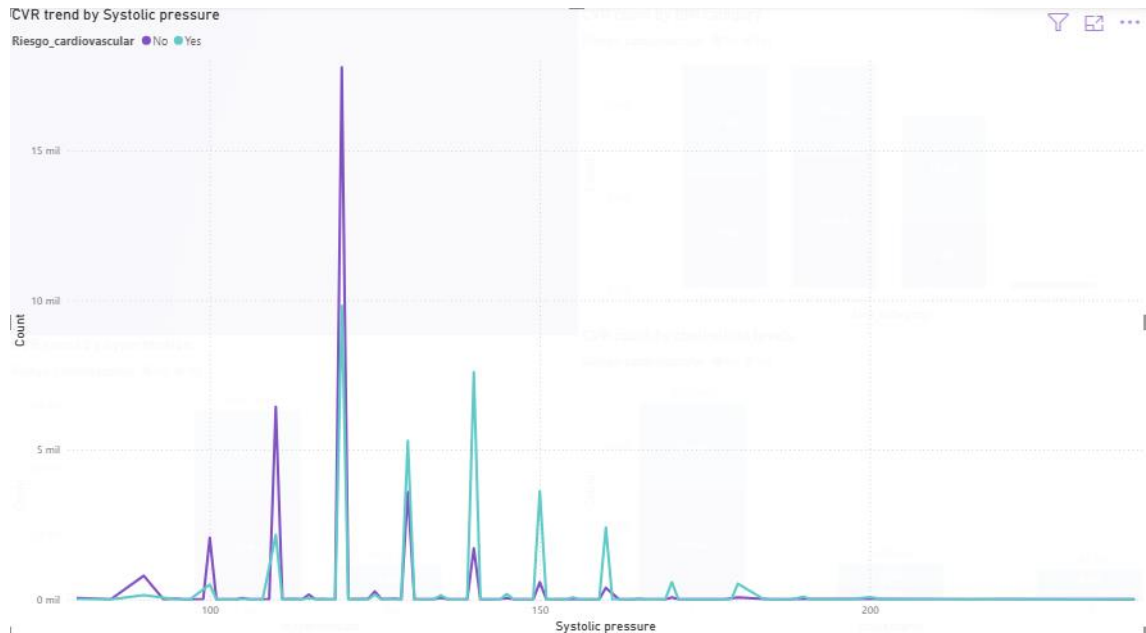
## 2. Influence of Hypertension

**84.88%** of positive hypertension cases (10,379) also have a positive cardiovascular risk.



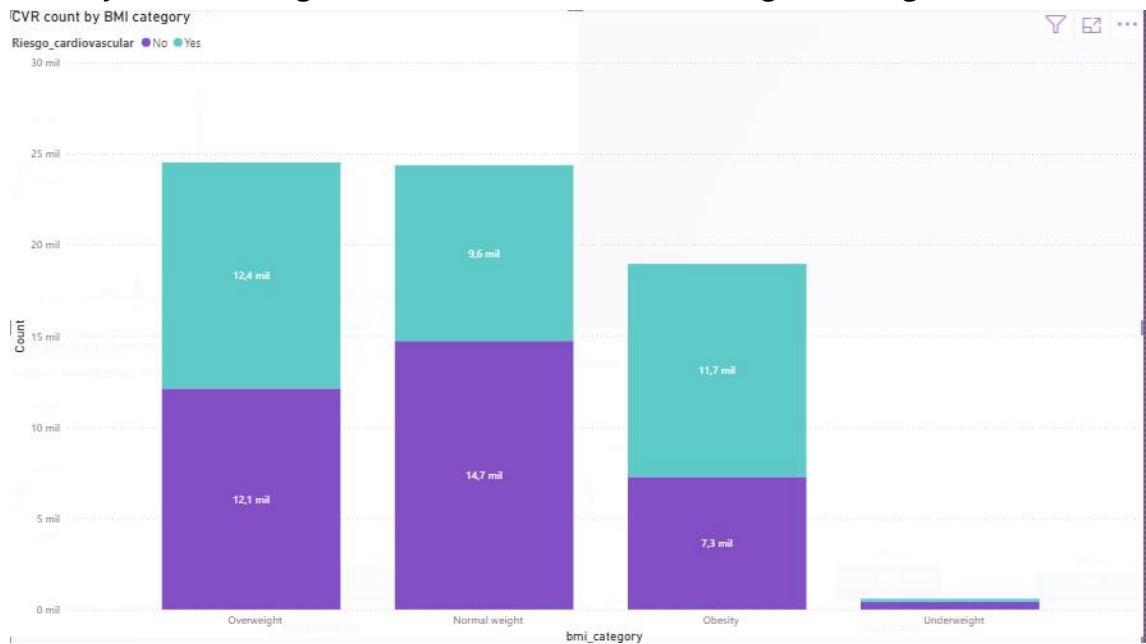
### 3. Systolic Pressure

Systolic pressures greater than **125** already represent a problem, with **59.64%** of positive CVR cases at **130 mmHg** and **76.28%** at **140 mmHg**.



### 4. BMI Category

Obesity shows the highest CVR rate with **62.88%** among BMI categories.



## 5. Cholesterol

Type 3 cholesterol presents a positive CVR rate of **76.23%**.

CVR count by cholesterol levels

Riesgo\_cardiovascular ● No ● Yes

