# Cardiovascular risk factors in patients with coronary artery disease who are re-hospitalized in the Service of Cardiology

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### Introduction:

Coronary artery disease is one of the main causes of cardiovascular disease. Secondary prevention based on pharmacological treatment and lifestyle changes maintained along time are fundamental to diminish the risk factors and to guarantee success of the treatment.

#### **Purpose:**

To analyze cardiovascular risk factor in patients with coronary artery disease who are re-admitted at hospital.

### **Methods:**

- Descriptive prevalence study carried out from September 2018 to August 2019.
- **Number of patients:** 537 patients hospitalized at the Service of Cardiology.
- Sample: 77 patients with antecedents of ischemic heart disease who were re-admitted.
- Variables: age, sex, risk factors: diabetes, hypertension, dyslipidemia, smoking, overweight, or obesity (Body Mass index (BMI)(weight/height2) ≥ 25 Kg/m2), sedentary lifestyle was not evaluated. Laboratory values: HDL Cholesterol (< 60: low), LDL Cholesterol (≥130: high), triglycerides (≥ 150: high), fasting</li>

blood glucose (> 110: impaired); reason for hospitalization (discharge diagnoses classified according to ICD - 10 coding). BMI was obtained from 39 patients. Lipid values were taken from 47 patients and fasting blood glucose values from 75 patients. Relative frequencies and percentages were calculated. For data processing Microsoft Excel 2013 and R Studio 4.0.3 were used.



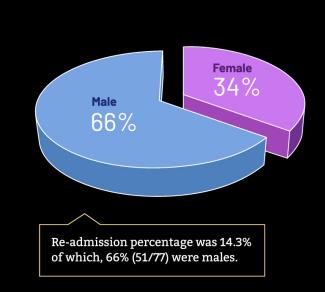


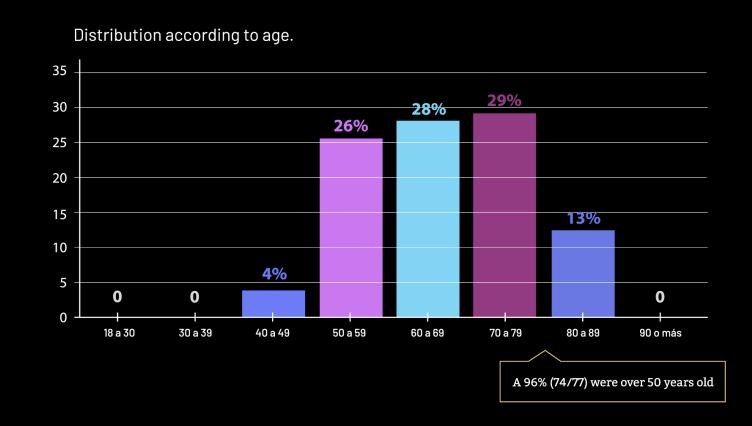


## Results:

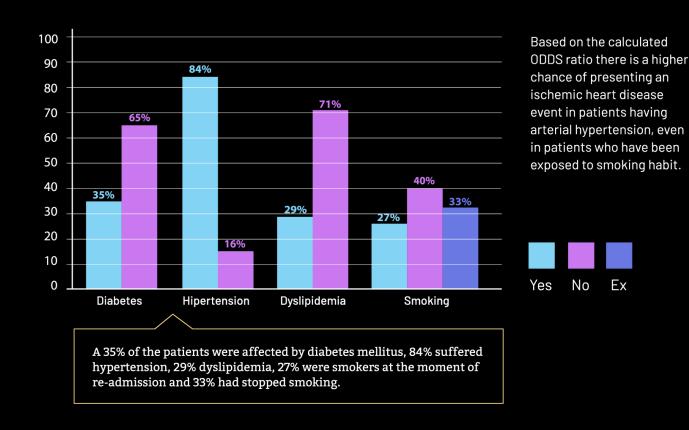
# Characterization of the universe and prevalence of re-hospitalization of patients with ischemic heart disease

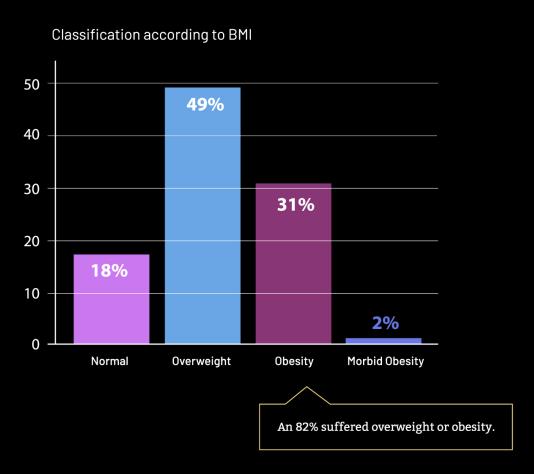
Distribution according to sex.



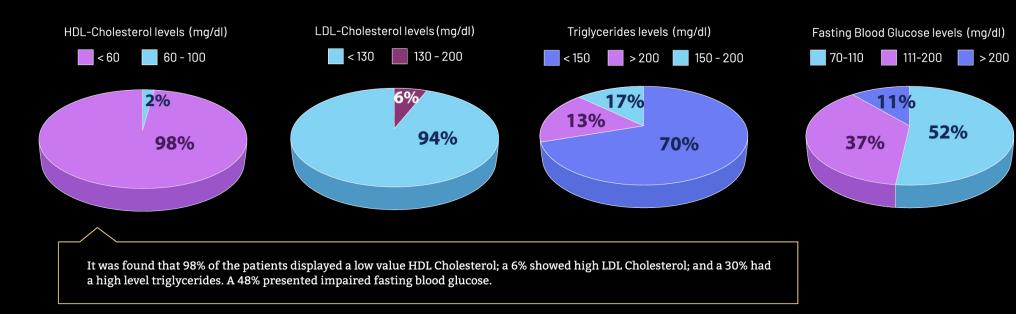


# Distribution according cardiovascular risk factors

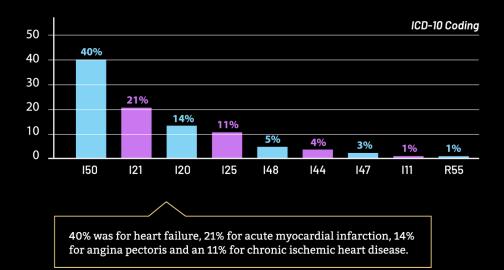




# Distribution according to Laboratory Results



# Distribution according to discharge diagnoses



- I50 Heart failure
  I20 Angina pectoris
  I21 Acute myocardial infarction
  I25 Chronic ischaemic heart disease
  I48 Atrial fibrillation and flutter
  I47 Paroxysmal tachycardia
  I44 Atrioventricular and left bundle-branch block
  I11 Hypertensive heart disease
- **R55** Syncope and collapse

## Conclusion

Those patients re-admitted having coronary artery disease showed hypertension, overweight and obesity as main risk factors. Lipid values LDL Cholesterol and triglycerides were optimal in most cases in respect of the mandatory use of statins; however, most patients had low values of HDL Cholesterol. Almost half of them exhibited fasting hyperglycemia.

The main discharge diagnosis was heart failure, follow by the new coronary events showing the progression of the atherosclerotic pathology before the insufficient check up of cardiovascular risk factors.