The Most Important Insights

1. It seems that most patients are females.

2. The minority of patients had diabetes since 92.84 % of the patients didn't have diabetes.

3. The minority of patients had alcoholism since 96.96 % of the patients didn't have alcoholism.

4. Most patients didn't take the scholarship.

5. Most patients didn't have hypertension

6. Most patients go on time, representing 79.90% of all patients.

7. 13.15% of all patients are females and no-show at the appointment

8. 6.95% of all patients are males and no-show at the appointment.

9. 18.81% of all patients didn't have diabetes and no-show at the appointment.

10. 1.29% of all patients have diabetes and no-show at the appointment.

11. 19.50% of all patients didn't have alcoholism and no-show at the appointment.

12. 0.61% of all patients have alcoholism and no-show at the appointment.

13. 17.77% of all the patients didn't take the scholarship and didn't no-show at the appointment.

14. 2.33% of all the patients took the scholarship, but they didn't no-show at the appointment.

15. 16.73% of all patients didn't have hypertension and no-show at the appointment.

16. 3.38% of all patients have hypertension and no-show at the appointment.

17. 19.78% of all patients weren't handicapped and no-show at the appointment.

18. 0.32% of all patients were handicapped and no-show at the appointment.

19. Most of the appointment was in JARDIM CAMBURI neighborhood.

20. 11.19% of all patients didn't receive SMSs and no-show at the appointment.

21. 8.91% of all patients receive SMSs and no-show at the appointment.

22. The average waiting time for people who no-show appointments are bigger than for those who don't do so. This is means that the more the waiting time is, the more people who no-show appointments.

23. **The characteristics of patients that no-show at the appointment:**

- Most patients who no-show at the appointment are females where they represent 65.42% of all patients who no-show.
- Most patients who no-show at the appointment didn't have diabetes, representing 93.59% of all patients who no-show.
- Most patients who no-show at the appointment didn't have alcoholism, representing 96.98% of all patients who no-show.
- Most of the patients that didn't no-show at the appointment didn't take the scholarship, representing 88.41% of the patients who no-show.
- Most patients who no-show at the appointment didn't have hypertension, representing 83.20% of all patients who no-show.
- Most patients who no-show at the appointment weren't handicapped, representing 98.39% of all patients who no-show.
- Most of the appointment was in JARDIM CAMBURI neighborhood.
- In general, most patients who no-show at the appointment didn't receive SMSs, representing 55.67% of all patients who no-show.
- In general, the patients in the age group -1:18 and 18:37 are most likely to no-show at the appointment, representing 28.53% and 28.72% respectively.
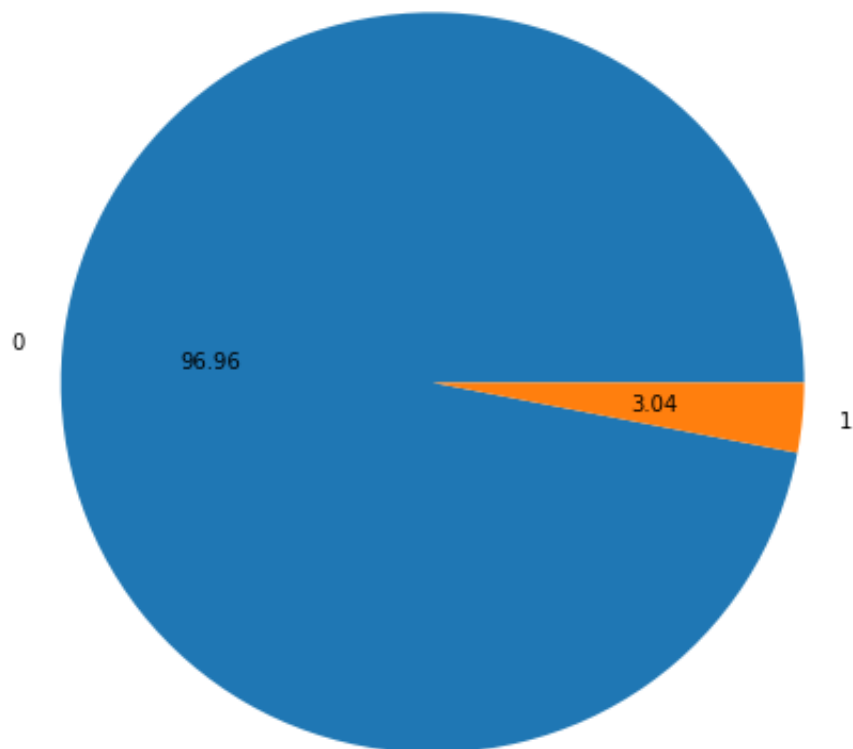
Limitations:

- I think there are missing features. For instance, If we have a column that indicates whether the patient is employed or not, it will help us get a better conclusion.
- I had some difficulty understand the data. I was confused between the 'AppointmentDay' column and the 'ScheduledDay' column. I do some search to know what they mean. Also, the 'age' column and the 'handicap' column have confusing values.

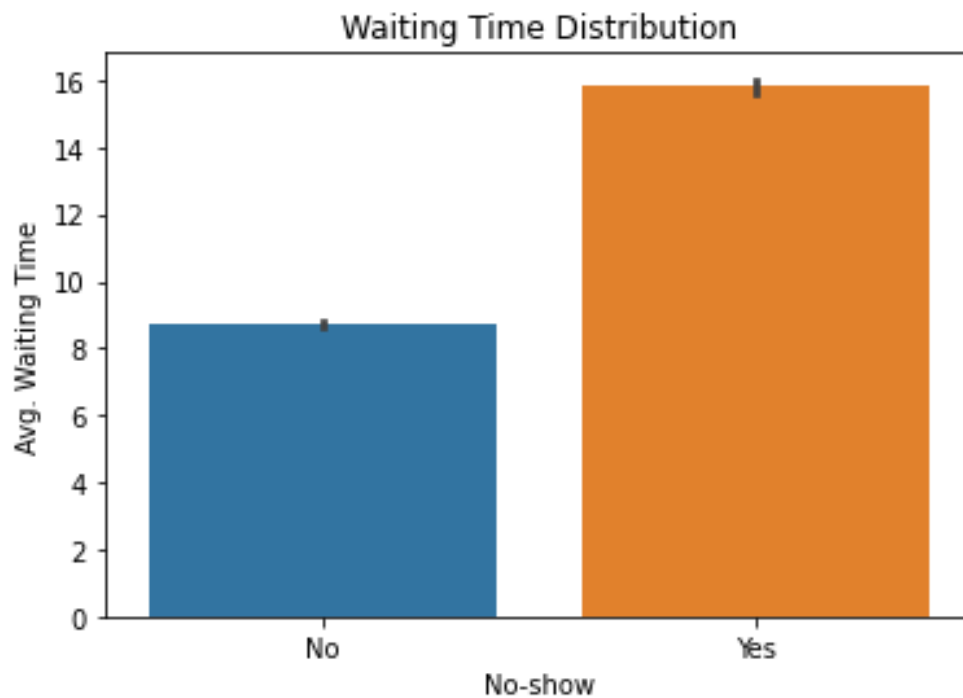# Graphs illustrate my findings:

Related to all patients:

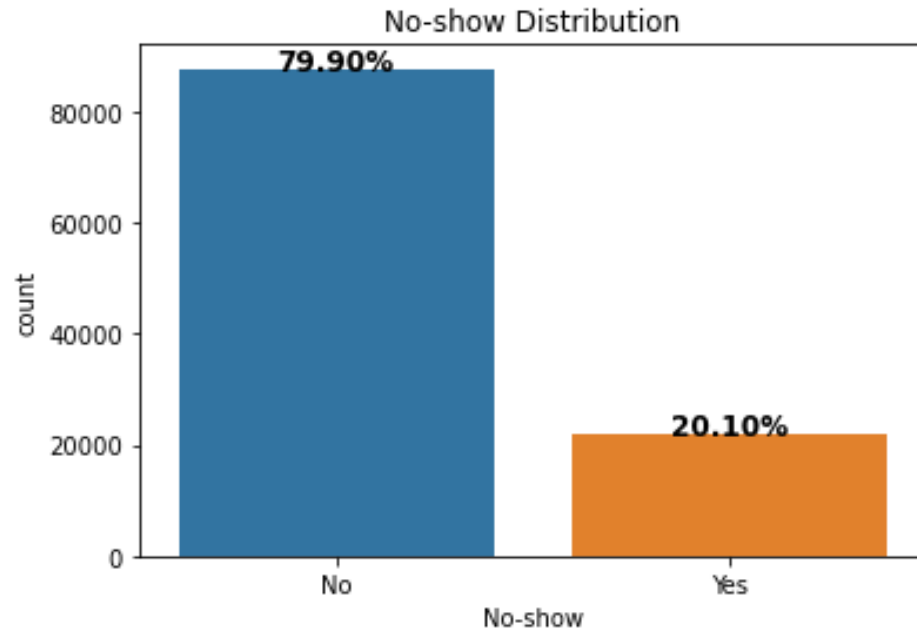1. **The minority of patients had diabetes since 92.84 % of the patients didn't have diabetes.**

Number of Patients Had Alcoholism

2. **The average waiting time for people who no-show appointments is bigger than for those who don't do so. This is means that the more the waiting time is, the more people who no-show appointments.**
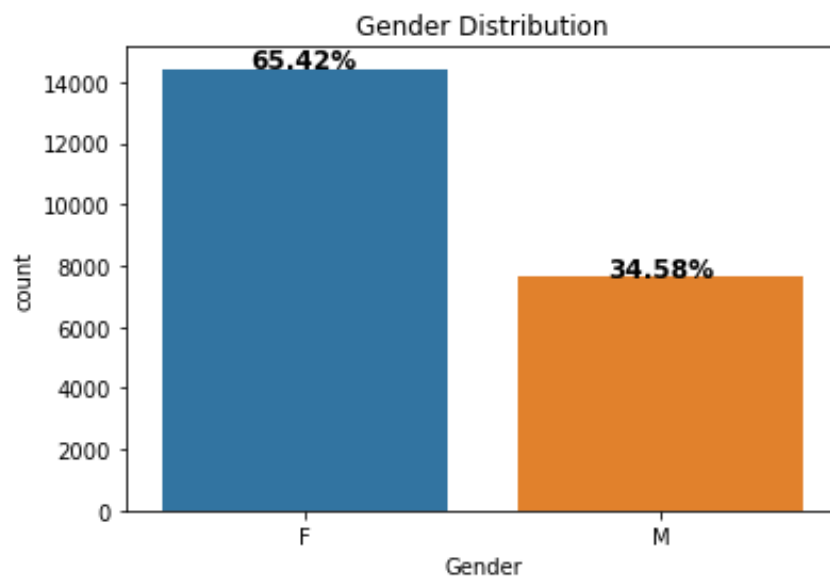

Waiting Time Distribution

3. **Most patients go on time, representing 79.90% of all patients.**

No-show Distribution

Related to the patients that no-show at the appointment:

1. **Most patients who no-show at the appointment are females where they represent 65.42% of all patients who no-show.**

Gender Distribution

2. **Most patients who no-show at the appointment didn't have diabetes, representing 93.59% of all patients who no-show.**