

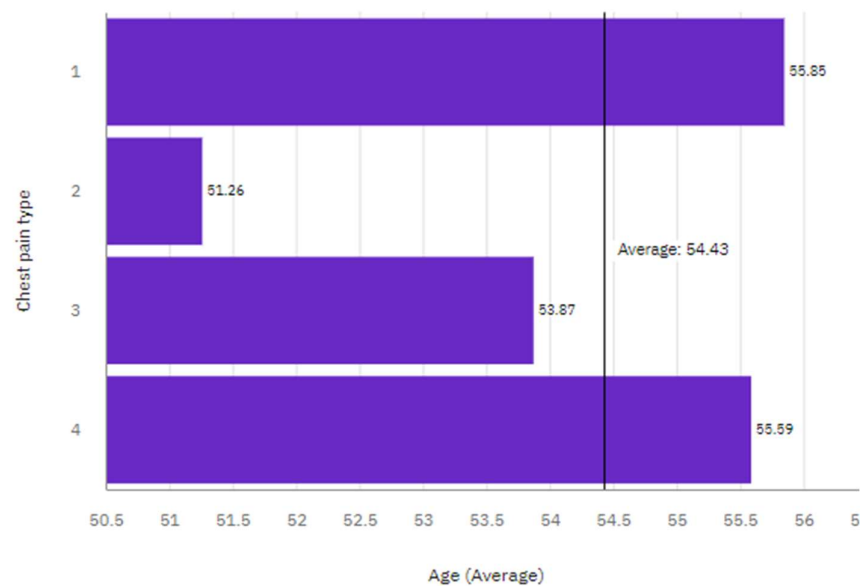
Sprint Delivery Plan-II

| | |
|--------------|---|
| Date | 03 November 2022 |
| Team ID | PNT2022TMID17743 |
| Project Name | Visualizing and Predicting Heart Diseases with an Interactive Dashboard |

Visualization of various factors causing heart disease:

1). Age by Chest Pain type

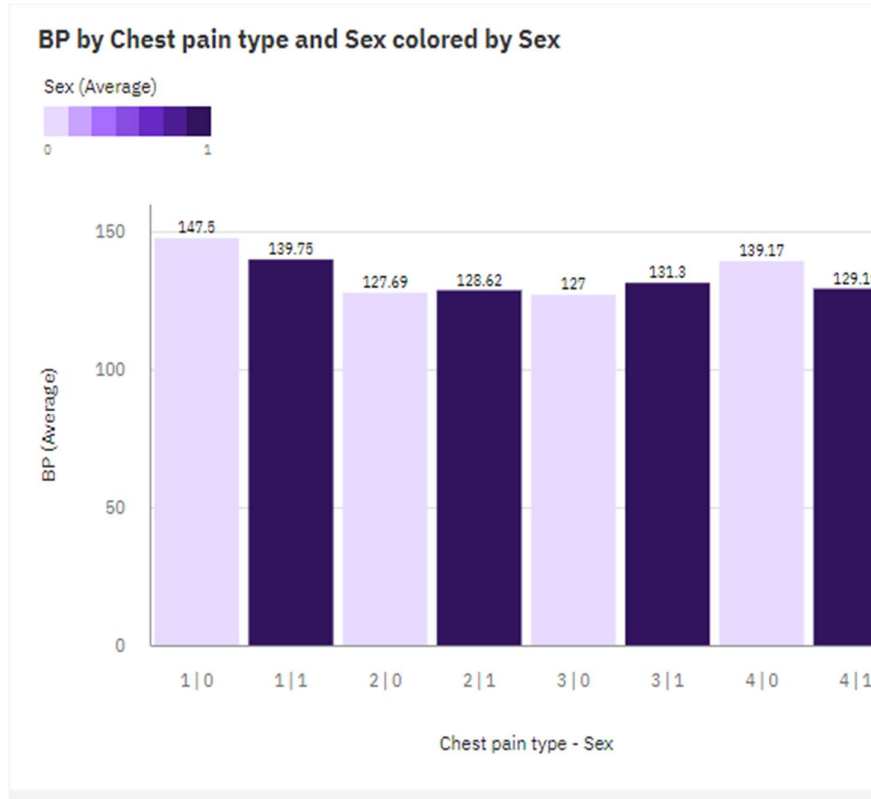
Age by Chest pain type



Insights:

- a) The most common value of Chest pain type is 4, occurring 129 times, which is 47.8 % of the total.
- b) Over all chest pain types, the average of Age is 54.43.
- c) The average values of Age range from 51.26, occurring when Chest pain type is 2, to 55.85, when Chest pain type is 1.

2). BP by Chest pain type and Sex coloured by Sex

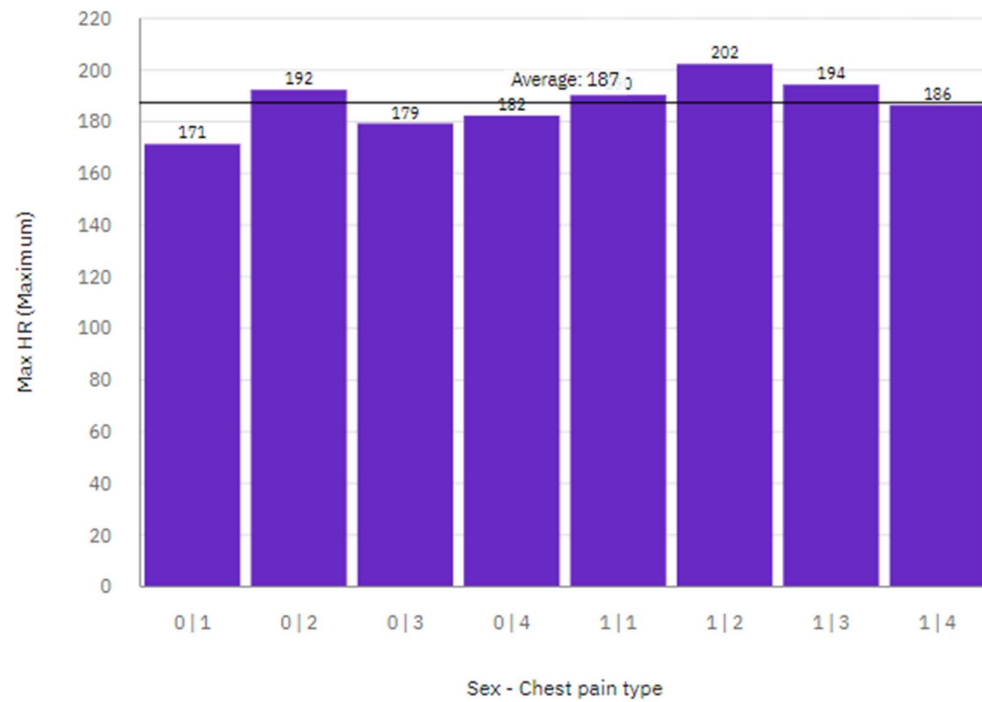


Insights:

- The total number of results for Sex is 270.
- Over all chest pain type - sexes, the average of BP is 0.6778.
- The average values of BP range from 0, occurring when Chest pain type - Sex is 1|0, to 1, when Chest pain type - Sex is 1|0.
- The most common value of Chest pain type - Sex is 2|1, occurring 129 times, which is 47.8 % of the total.

3) Max HR by Sex and Chest pain type

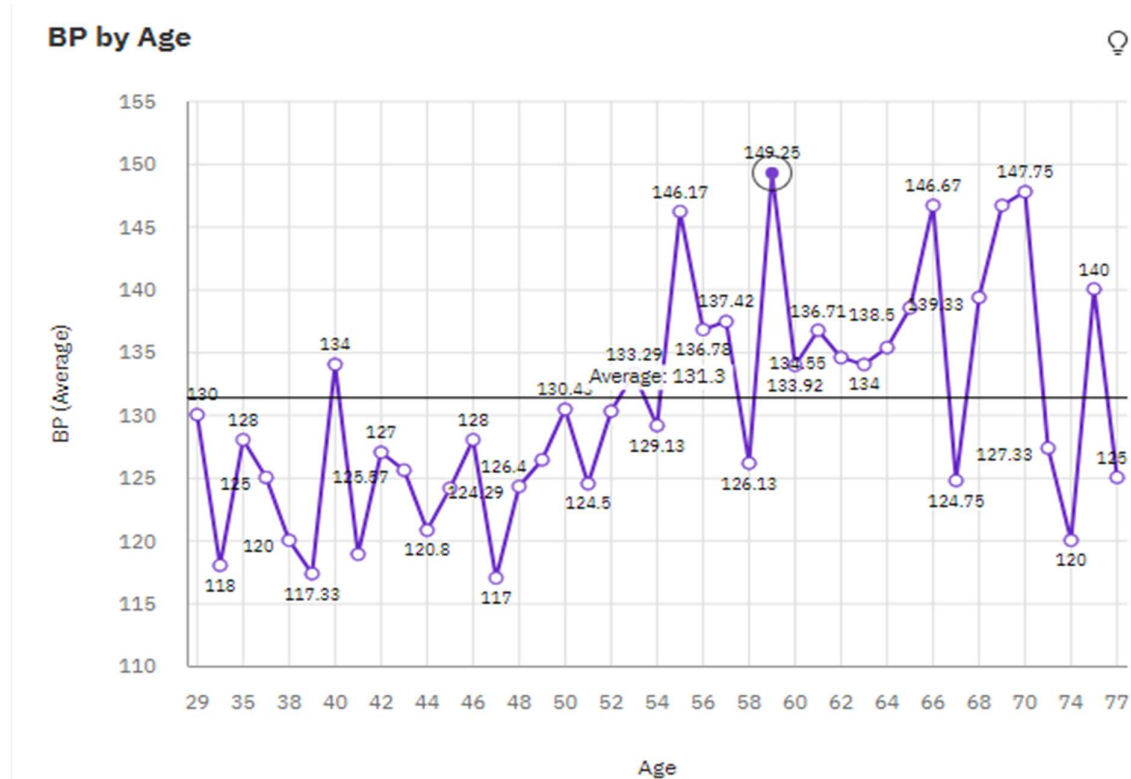
Max HR by Sex and Chest pain type



Insights:

- a) The total number of results for Max HR, across all sex - chest pain types, is 270.
- b) The most common value of Sex - Chest pain type is 0|2, occurring 183 times, which is 67.8 % of the total.
- c) The largest value of Max HR is 3, occurring when Sex - Chest pain type is 0|1.

4) BP by Age



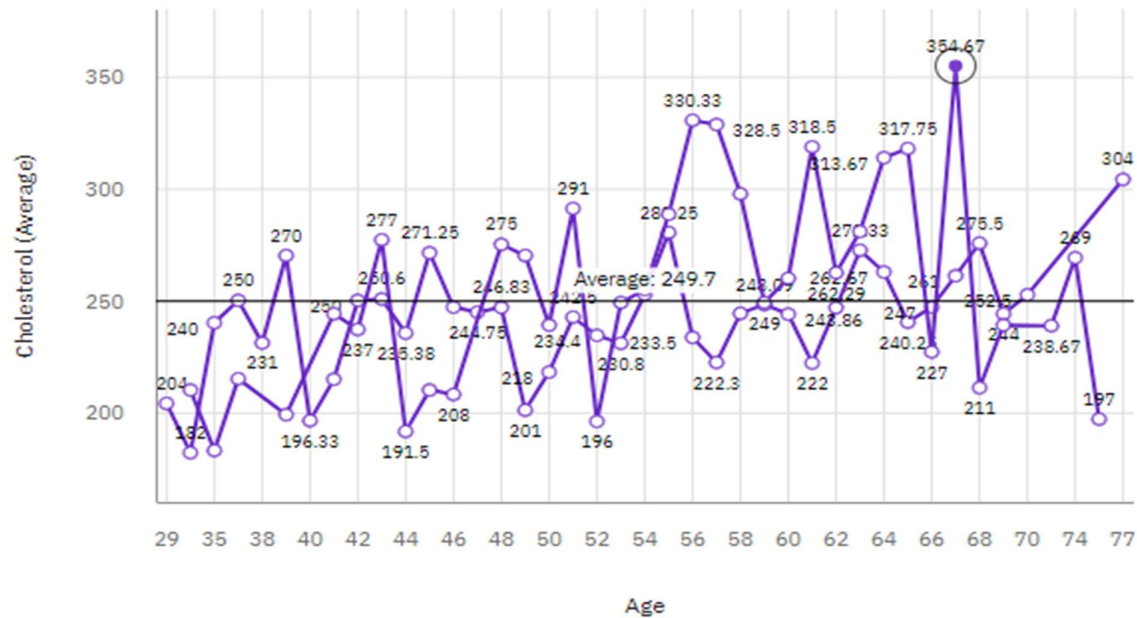
Insights:

- Over all ages, the average of BP is 131.3.
- The average values of BP range from 117, occurring when Age is 47, to 149.2, when Age is 59.
- BP is unusually high when Age is 59.
- The most common values of Age are 54 (5.9 %) and 58 (5.6 %), together occurring 31 times, which is 11.5 % of the total.

5) Cholesterol by Age colored by Sex

Cholesterol by Age colored by Sex

Sex
0 1



Insights:

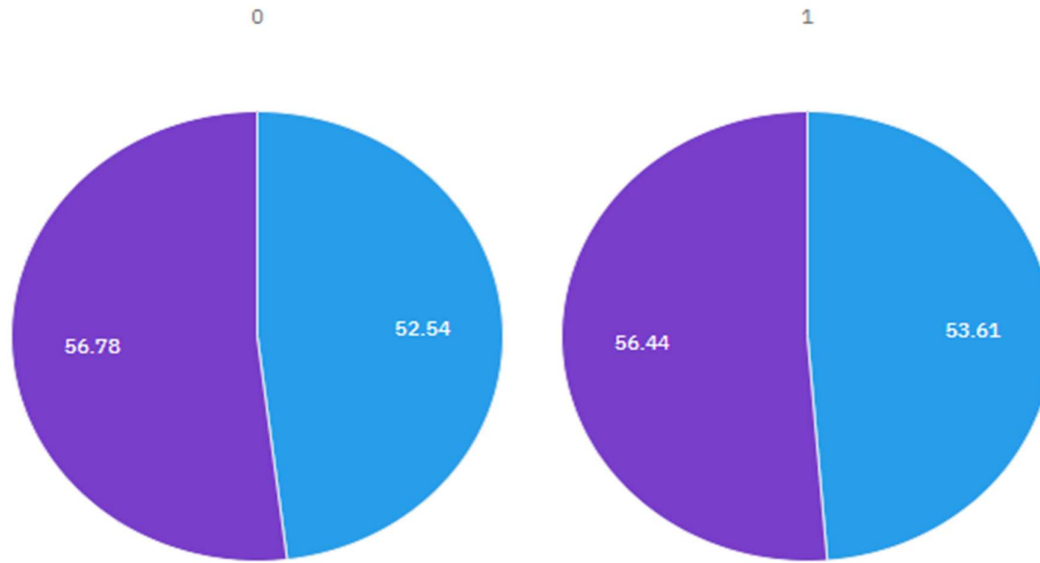
- The most common values of Age are 54 (5.9 %) and 58 (5.6 %), together occurring 31 times, which is 11.5 % of the total.
- The most common value of Sex is 1, occurring 183 times, which is 67.8 % of the total.
- Over all ages and sexes, the average of Cholesterol is 249.7.
- The average values of Cholesterol range from 182 to 354.7.
- Cholesterol is unusually high when the combination of Age and Sex is 67 and 0.

6) Age by Heart Disease

Age by Heart Disease

Heart Disease

● Absence ● Presence

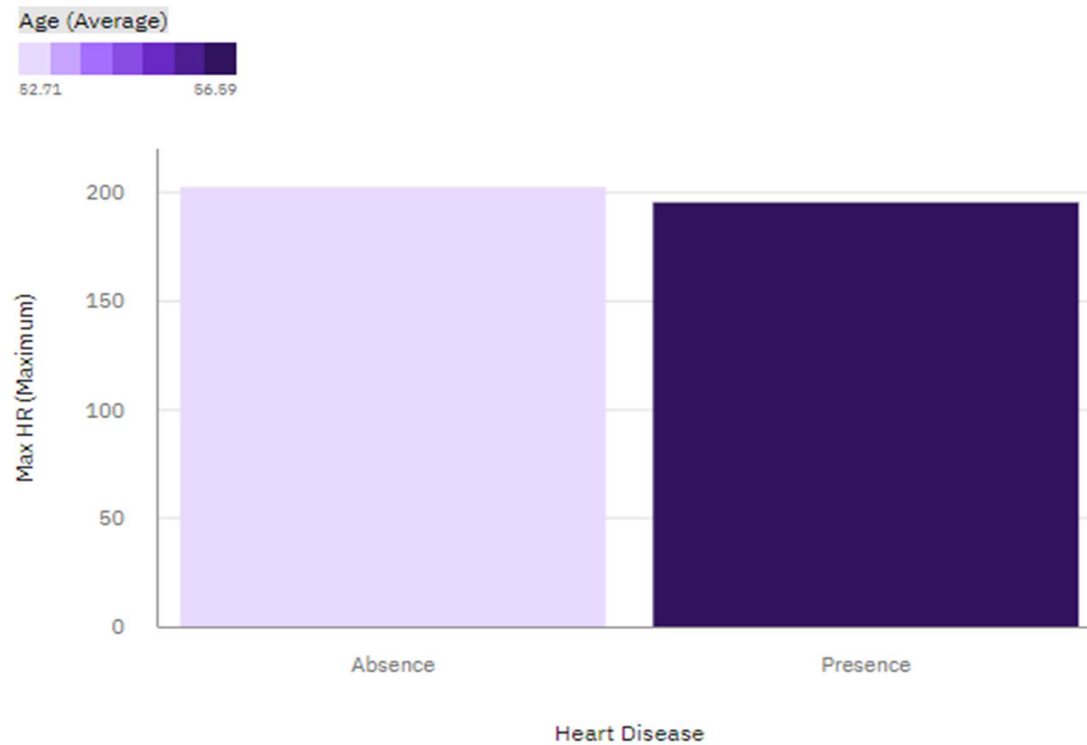


Insights:

- a) The most common value of Heart Disease is Absence, occurring 150 times, which is 55.6 % of the total.
- b) The most common value of Exercise angina is 0, occurring 181 times, which is 67 % of the total.
- c) Over all values of Heart Disease and Exercise angina, the average of Age is 54.43.
- d) The average values of Age range from 52.54 to 56.78.

7) Max HR by Heart Disease colored by Age

Max HR by Heart Disease colored by Age



Insights:

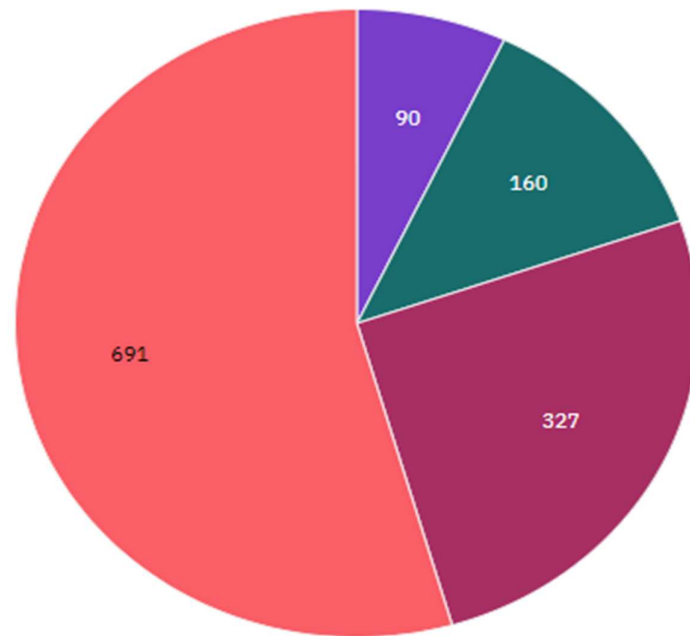
- a) The total number of results for Max HR is 270.
- b) The total number of results for Age is 270.
- c) The most common value of Heart Disease is Absence, occurring 150 times, which is 55.6 % of the total.
- d) The largest value of Max HR is 202, occurring when Heart Disease is Absence.

8) Thallium by Chest pain type

Thallium by Chest pain type

Chest pain type

1 2 3 4

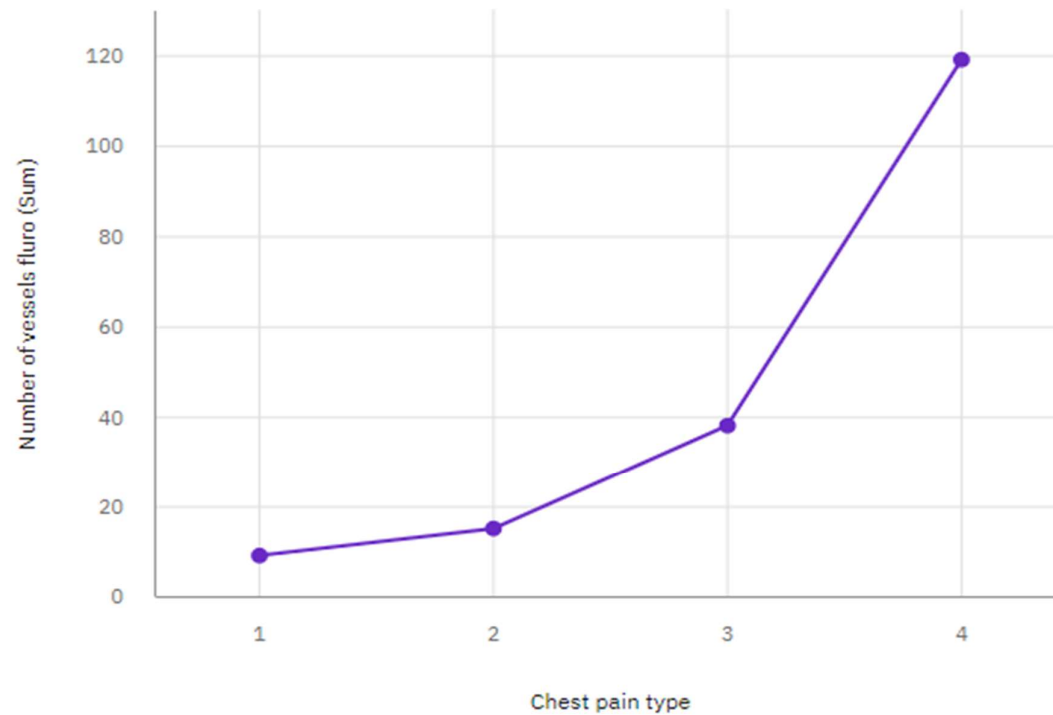


Insights:

- a) Over all chest pain types, the sum of Thallium is almost 1500.
- b) Thallium ranges from 90, when Chest pain type is 1, to 691, when Chest pain type is 4.
- c) Thallium is unusually high when Chest pain type is 4.

9) Number of vessels fluoro by Chest pain type

Number of vessels fluoro by Chest pain type

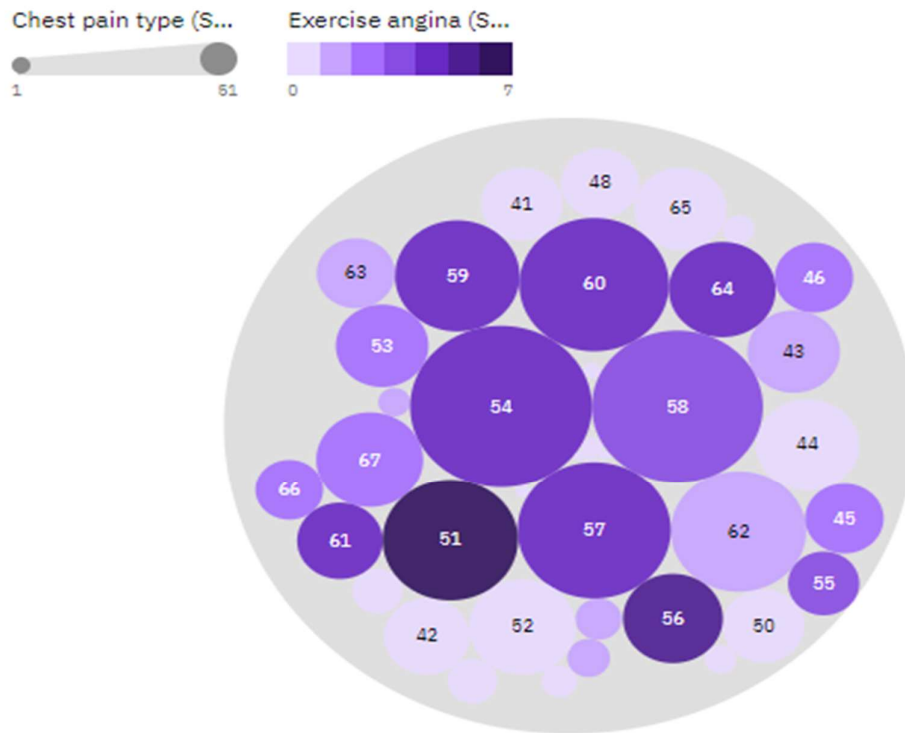


Insights:

- a) Over all chest pain types, the sum of Number of vessels fluoro is 181.
- b) Number of vessels fluoro ranges from 9, when Chest pain type is 1, to 119, when Chest pain type is 4.
- c) Number of vessels fluoro is unusually high when Chest pain type is 4.

10) Age hierarchy colored by Exercise angina and sized by Chest pain type

Age hierarchy colored by Exercise angina and sized by Chest pain type

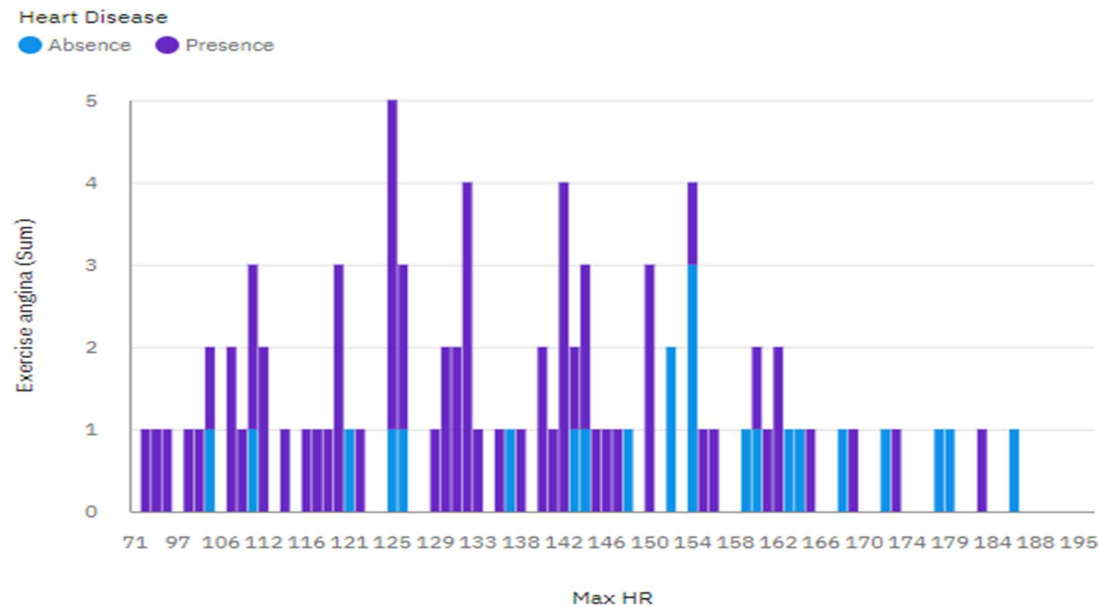


Insights:

- a) Over all ages, the sum of Chest pain type is 857.
- b) For Chest pain type, the most significant values of Age are 54 and 58, whose respective Chest pain type values add up to 99, or 11.6 % of the total.
- c) Chest pain type ranges from 1, when Age is 38, to 51, when Age is 54.

11) Exercise angina by Max HR colored by Heart Disease

Exercise angina by Max HR colored by Heart Disease



Insights:

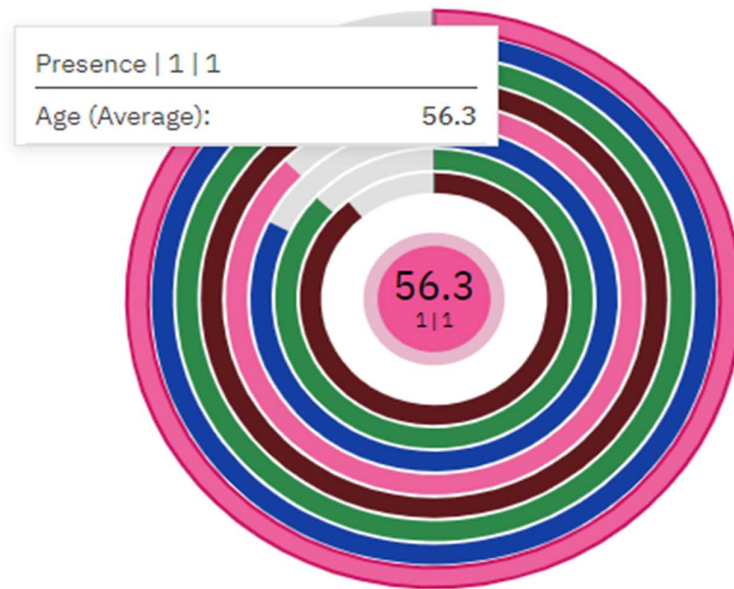
- Exercise angina by Max HR colored by Heart Disease.
- Over all max hrs and heart diseases, the sum of Exercise angina is 89.
- For Exercise angina, the most significant value of Max HR is 125, whose respective Exercise angina values add up to 5, or 5.6 % of the total.
- For Exercise angina, the most significant value of Heart Disease is Presence, whose respective Exercise angina values add up to 66, or 74.2 % of the total.
- The summed values of Exercise angina range from 0 to 4.
- Exercise angina is unusually high when the combinations of Max HR and Heart
- Disease are 125 and Presence, 132 and Presence and 142 and Presence.
- Exercise angina is unusually high when Max HR is 125.

12) Age by Heart Disease colored by Sex and Exercise angina

Age by Heart Disease colored by Sex and Exercise angina

Sex (Sum) - Exercise angina (Sum)

● 0|0 ● 0|1 ● 1|0 ● 1|1

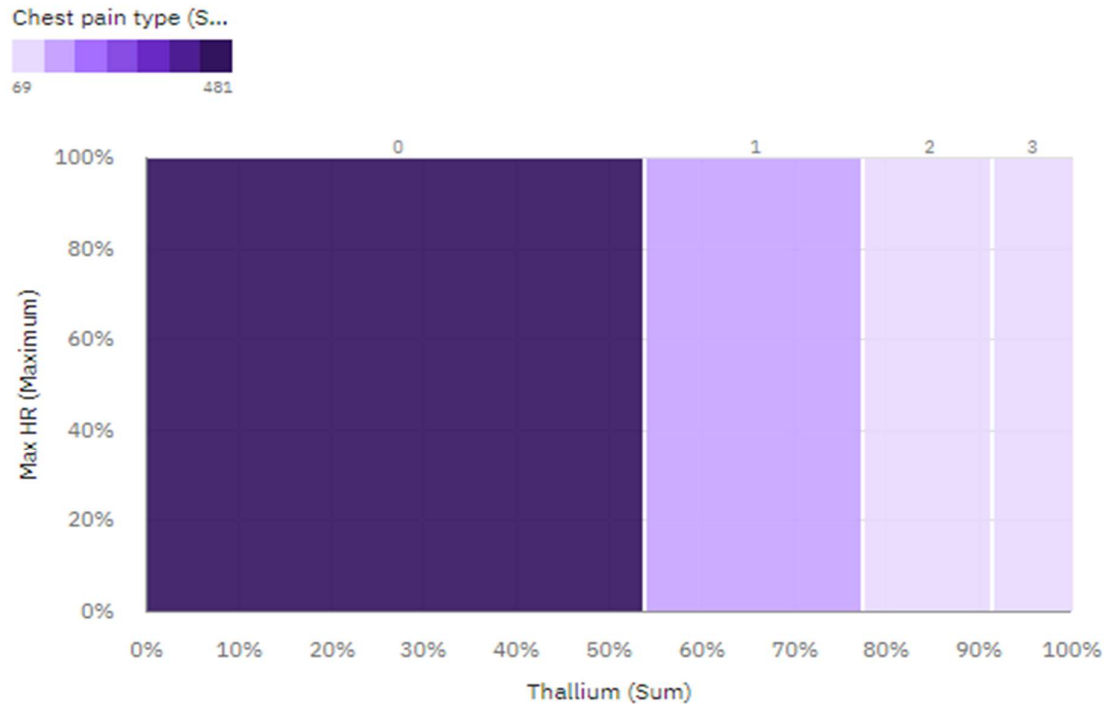


Insights:

- a) Over all values of Heart Disease and Sex - Exercise angina, the average of Age is 54.43.
- b) The average values of Age range from 50.63 to 61.5.
- c) Age is unusually low when the combination of Heart Disease and Sex - Exercise angina is Absence and 1|0.
- d) The most common value of Sex - Exercise angina is 0|1, occurring 183 times, which is 67.8 % of the total.
- e) The most common value of Heart Disease is Absence, occurring 150 times, which is 55.6 % of the total.

13) Max HR and Thallium for Number of vessels fluro colored by Chest pain type

Max HR and Thallium for Number of vessels fluro colored by Chest pain type

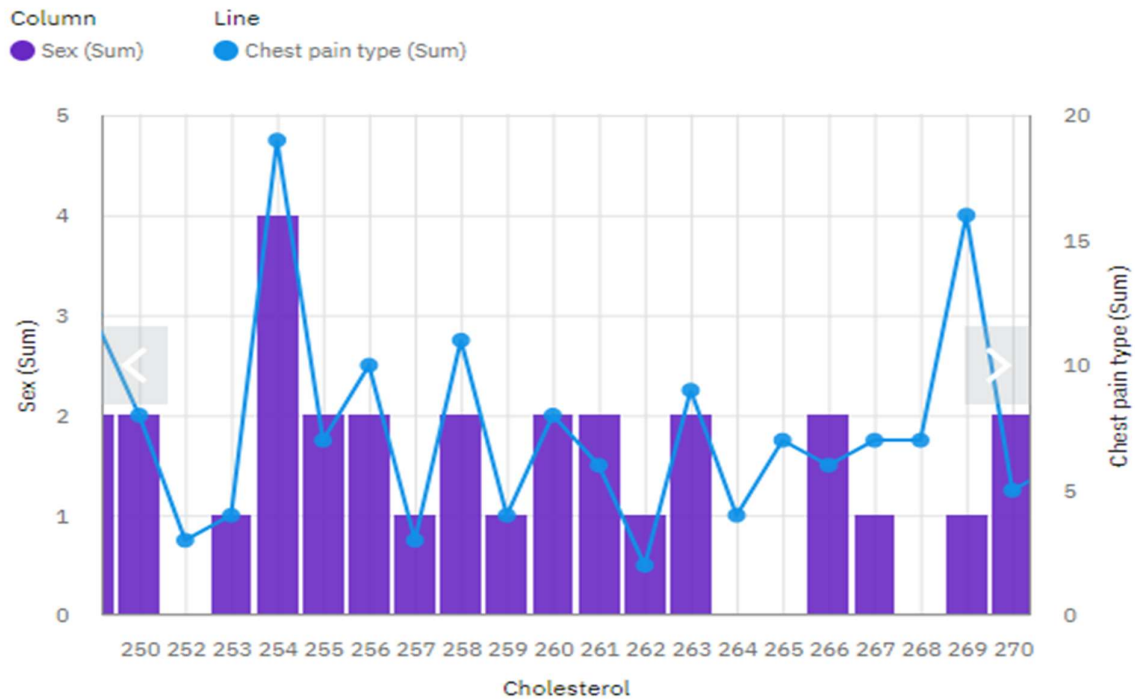


Insights:

- The total number of results for Max HR is 270.
- The most common value of Number of vessels fluro is 0, occurring 160 times, which is 59.3 % of the total.
- The largest value of Max HR is 202, occurring when Number of vessels fluro is 0.

14) Chest pain type and Sex by Cholesterol

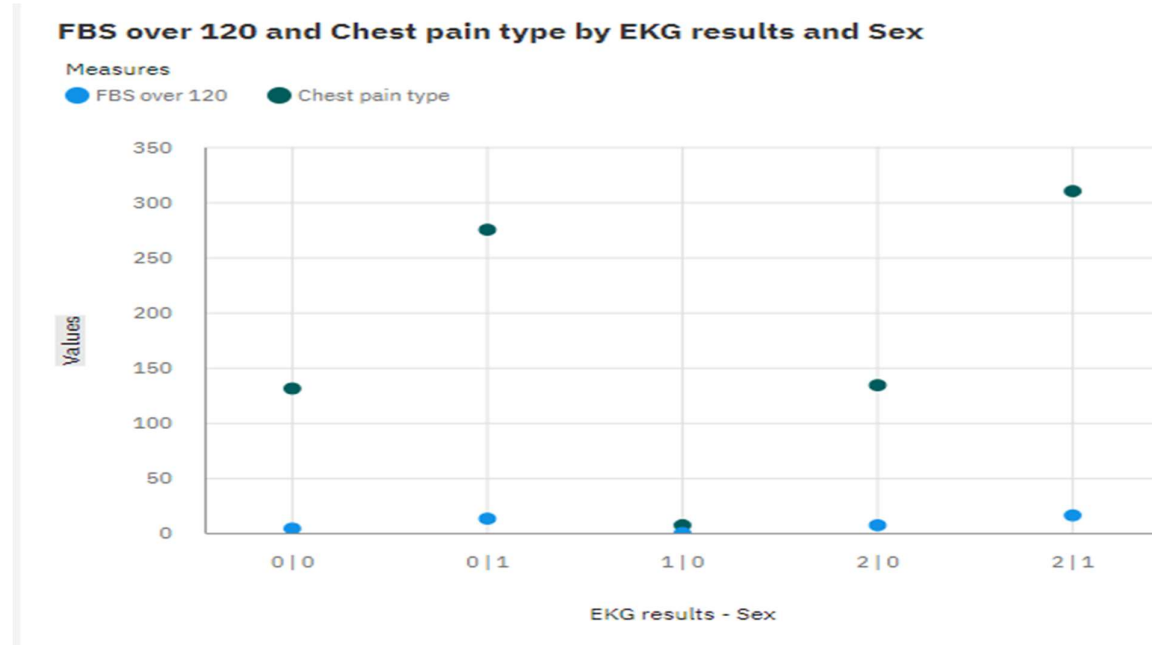
Chest pain type and Sex by Cholesterol



Insights:

- Over all values of Cholesterol, the sum of Sex is 183.
- For Sex, the most significant values of Cholesterol are 233, 234, 254, 282, and 212, whose respective Sex values add up to 20, or 10.9 % of the total.
- Sex ranges from 0, when Cholesterol is 141, to 4, when Cholesterol is 212.
- Over all values of Cholesterol, the sum of Chest pain type is 857.
- Chest pain type ranges from 1, when Cholesterol is 182, to 19, when Cholesterol is 254.

15) FBS over 120 and Chest pain type by EKG results and Sex



Insights:

- a) FBS over 120 ranges from 0, when EKG results - Sex is 0|0, to 1, when EKG results - Sex is 0|0.
- b) Chest pain type ranges from 0, when EKG results - Sex is 0|1, to 16, when EKG results - Sex is 1|0.
- c) FBS over 120 is unusually high when EKG results - Sex is 2|0.
- d) The total number of results for Chest pain type, across all ekg results - sexes, is 270.
- e) Over all ekg results - sexes, the average of Chest pain type is 0.1481.
- f) The most common values of EKG results - Sex are 1|0 (50.7 %) and 0|0 (48.5 %), together occurring 268 times, which is 99.3 % of the total.
- g) The total number of results for FBS over 120, across all ekg results - sexes, is 270.
- h) Over all ekg results - sexes, the average of FBS over 120 is 0.007407.