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Physiology 125

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Respiratory Physiology

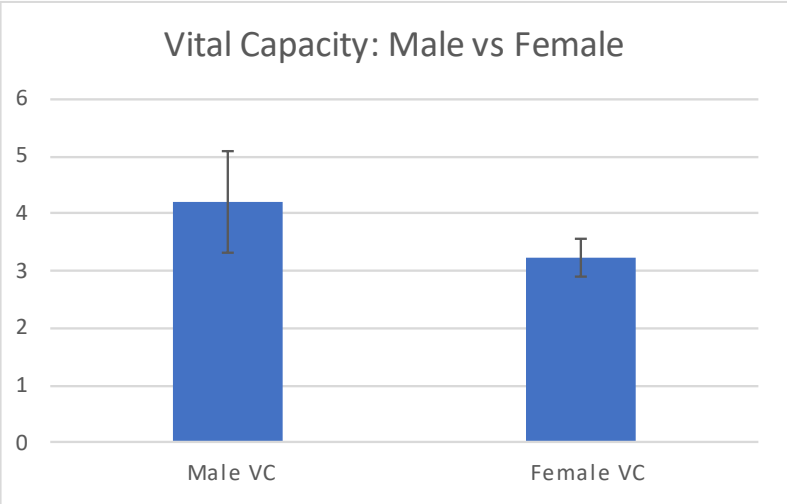
Purpose

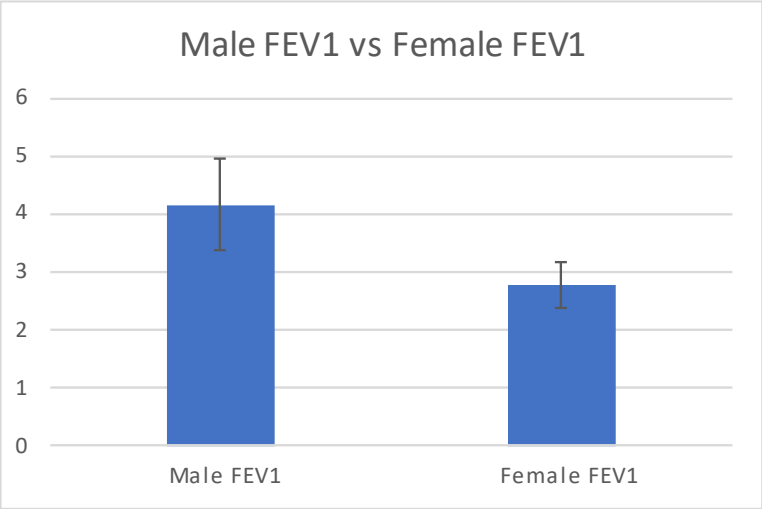
The purpose of this experiment is to be able to identify and give the function of each device used in the laboratory. It is also to identify the lung volumes and capacities recorded and know the average values for each.

Procedures

Some students volunteered to use the inspiratory device in order to get their lung capacities. The subjects needed to inhale deeply and then exhale fast to get the accurate lung capacity of the subject. After the exhalation, the computer will give the results. The results were gathered and listed in order to create the graph for the experiment.

Results





Discussions

In this experiment, interesting results were gathered after doing the procedures done by the subjects or volunteers. We can clearly see from the first graph that gender plays a vital role in lung vital capacity. We can see that males have bigger vital capacity which has an average of 4.2 while the female's average vital capacity is at 3.225. On the second graph we can also see that there is a big difference between male's FEV1 and female's FEV1. We can clearly see that the male's FEV1 is higher compared to the females. The male's average FEV1 is at 4.167 while the female's average FEV1 is at 2.767. All in all, the vital capacity of both gender is in the normal range.

Conclusion

In conclusion, we can say that there is a difference in gender when it comes to vital capacity and FEV1. Based on the results, males get bigger vital capacity and higher FEV1 compared to the females.