Lab 14- The Forced Vital Capacity(FVC) or Forced Expiratory Volume (FEVt)- Morgan ComPAS Pneumotrac

Specific Lab:14 - D: Incentive inspiratory devices

Purpose: The purpose of this lab experiment is to explore and understand the use of incentive inspiratory devices in clinical settings, particularly in the rehabilitation of respiratory and cardiac patients. Additionally, the experiment aims to investigate the application of these devices for bed-ridden patients, targeting respiratory muscles during rehabilitation. The primary goal is to measure inspiratory capability using various incentive inspiratory devices and assess the progress made by individuals in breathing deeply.

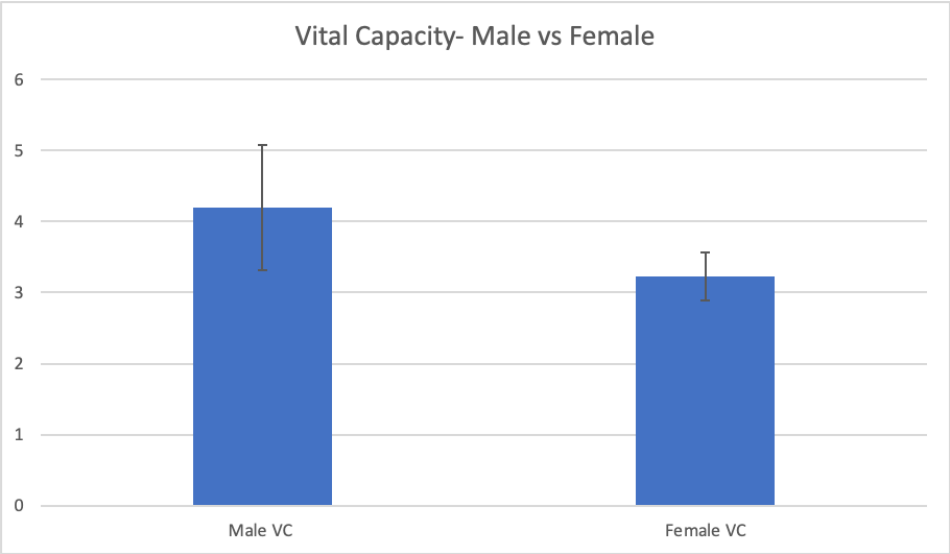
Procedure:

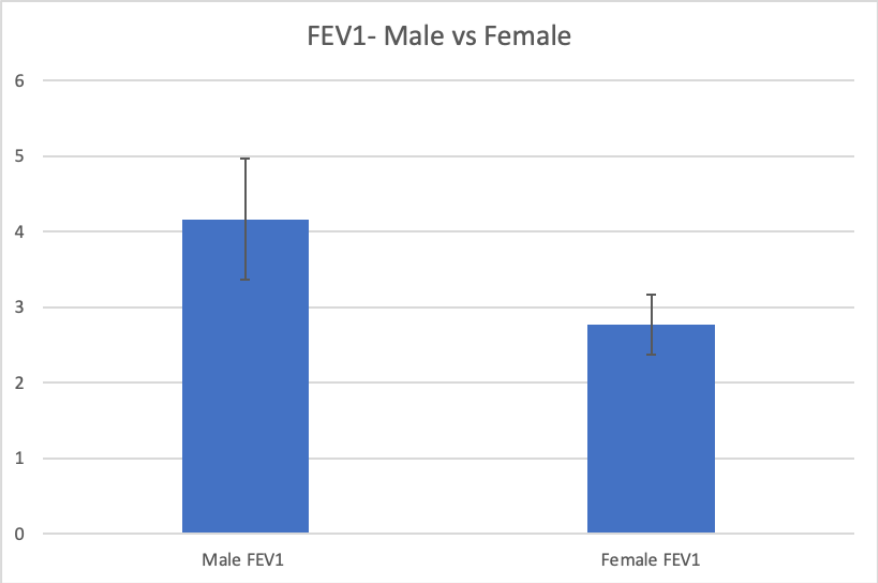
1. Obtain an incentive device and attach your disposable cardboard mouthpiece and white (or blue)filter to the breathing tube.The filter is quite a bit bigger than the breathing tube, so use your hand to try to get the best seal possible, it is not crucial to have a complete seal.

2. Breathe in as deeply as possible and record the measurement given on the device.Depending upon the model, you may have to move colored balls up plastic columns or move bellows within a column.

3. Record your values.Discard the disposable cardboard mouthpiece and place the filter in the correct tub after use (the tub is labeled)

Results:





Discussion: We were able to analyze the vital capacity for both female and male. As well as the FEV1 for female and male. After analyzing both it seems that the factor of gender plays a role in the results of the vital capacity and FEV1.

Conclusion:

- Be able to identify and give the function of each device used

- Be able to identify the lung volumes and capacities recorded and know average values for each.
- Be able to explain the significance of the TVC or FEVT test.

- Be able to explain differences in predicted and actual VC measurements.