

Lung Capacity Lab

Background

Human lung capacity can be measured in several ways. One way is by using a complex piece of laboratory equipment called a spirometer. However, lung capacity can also be measured by using a balloon.

Several different lung volume measurements can be made. The amount of air taken in or expelled during normal breathing is about 500 cm³. This volume of air called the tidal volume. The largest possible amount of air which can be exhaled after drawing in a deep breath is the vital capacity. The amount of air that remains in the lungs after exhaling normally but which can be expelled is the expiratory reserve. A certain amount of air in the lungs cannot be expelled. This is the residual volume.

Purpose

- To measure your tidal volume, expiratory reserve, and vital capacity
- To compare your experimental data with lung capacity data obtained from a spirometer

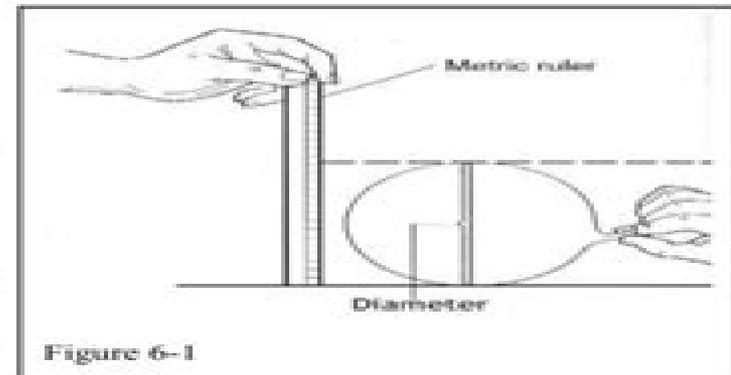
Materials

Round Balloon Metric Ruler

Procedure

Part A. Tidal Volume

- Stretch a balloon several times
- Take in a normal breath. Exhale into the balloon *only* as much air as you would normally exhale. **DO NOT** force your breathing.
- Pinch the balloon to prevent air from escaping.
- Place the balloon next to a metric ruler. Determine the diameter of the balloon by sighting across the top of the balloon to the ruler (Figure 6-1).
- Record the diameter of the balloon in centimeters in column A of Table 4-1.
- Deflate the balloon.
- Repeat the previous four steps four more times. Measure and record each balloon diameter in Table 4-1.



Part B. Expiratory Reserve

- Exhale normally.
- Then, exhale into the balloon as much air as possible.
- Measure and record the diameter of the balloon in column B of Table 4-1.
- Run four more trials. Record the diameter of the balloon in the data table.

Part C. Vital Capacity

- Take as deep a breath as possible. Then exhale all the air you can into the balloon.
- Measure and record the diameter of the balloon in column C of Table 4-1.
- Run four more trials. Record the diameter of the balloon for each trial in the data table.

Lung Capacity Measurements Lab Manual

James Trefil, Robert M. Hazen



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