

# Lab 11 PhysioEx Respiratory System Mechanics Lab Report

## Activity 1: Measuring Respiratory Volumes & Calculating Capacities

Post your experimental data below. You may use the table provided or cut and paste the table from your PhysioEx lab report.

Radius (mm)	Flow (mL/min)	TV (mL)	ERV (mL)	IRV (mL)	RV (mL)	VC (mL)	FEV <sub>1</sub> (mL)	TLC (mL)	BPM
5.00	7500	500	1200	2091	1200	4791	5541	5041	15
4.50	4920	328	787	2028	1613	2143	2308	4856	15
4.00	3075	205	492	1246	1905	1962	1422	3871	15
3.50	1500	120	285	782	2112	1150	822	3262	15
3.0	975	65	156	401	2244	621	436	2865	15

Answer the following questions.

1. What would be an example of an everyday respiratory event the ERV button simulates?
2. What additional skeletal muscles are used in an ERV activity?
3. What was the FEV<sub>1</sub> (%) at the initial radius of 5.00 mm?
4. What happened to the FEV<sub>1</sub> (%) as the radius of the airways decreased?
5. Explain why the results from the experiment suggest that there is an obstructive, rather than restrictive, pulmonary problem.

# Lab Manual Physioex 34b Answer

**Michael Hoelscher**



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