

Week 8 Post-Lab

BIOE 320 Systems Physiology Laboratory

Student Name:

Total Grade: /10

1. Calculate FEV_x from the data you collected.
 - (a) Using Excel, open your FEV.txt file. The output of the file is in mV (the transducer reports 0.28 mV per 1 L/sec).
 - (b) Calculate FEV_1 , FEV_2 , and FEV_3 from this data. Fill in the table below. Sure your work, including any code you may use.

Table 1: Alpha RMS measurements

FEV_x	FEV (L)	FEV %
FEV_1		
FEV_2		
FEV_3		

2. What would happen if the pleural space were punctured, opening the space to external atmosphere?
3. Why is the secretion of surfactant important in the lungs?