

**MODULE D – PULMONARY FUNCTION MEASUREMENTS
CHAPTER 4**

VI. Complete the following table

- A. $TLC = FRC + IRV + V_t$
- B. $TLC = IRV + V_t + ERV + RV$
- C. $TLC = FRC + IC$
- D. $TLC = VC + RV$
- E. $TLC = IC + ERV + RV$
- F. $FRC = ERV + RV$
- G. $FRC = TLC - IC$
- H. $IC = IRV + V_t$
- I. $IC = TLC - FRC$
- J. $VC = IC + ERV$
- K. $VC = IRV + ERV + V_t$
- L. $VC = TLC - RV$

VIII. Interpret the following PFT exams:

Test	Predicted	Actual/Observed	% Predicted
FVC (L)	4.3	4.0	93%
FEV1 (L)	3.44	3.23	93.8%
FEV1/FVC%		81%	

** FEV1/FVC%: minimum acceptable value is 75%

**Predicted values are based on age, height, sex

Interpretation: **Normal**

Test	Predicted	Actual/Observed	% Predicted
FVC (L)	5.10	3.30	64.7%
FEV1 (L)	3.83	3.18	83%
FEV1/FVC%		96%	

Interpretation: **Restrictive Disease Process**

Test	Predicted	Actual/Observed	% Predicted
FVC (L)	6.10	4.99	81.9
FEV1 (L)	4.58	2.04	44.6

FEV1/FVC%		41	
-----------	--	----	--

Interpretation: **Obstructive Disease Process**

Test	Predicted	Actual/Observed	% Predicted
FVC (L)	5.2	3.9	75%
FEV1 (L)	4.5	4.16	92.4%
FEV1/FVC%		94%	

Interpretation: **Restrictive Disease Process**

Test	Predicted	Actual/Observed	% Predicted
FVC (L)	5.0	3.0	60
FEV1 (L)	4.0	2.0	70%
FEV1/FVC%		94%	
DLCO	34	15.9	47%

Interpretation: **Restrictive Disease Process with Reduced Diffusing Capacity**

Complete the following tables

Test	Actual	Predicted	% Predicted
FVC (L)	3.4	4.8	70.8%
TLC (L)	5.0	6.0	83.3%
FRC (L)	1.8	2.4	75%
RV (L)	0.6	1.2	50%

Does the patient have obstructive or restrictive disease? **Restrictive Disease**

Test	Actual	Predicted	% Predicted
FVC (L)	3.4	4.3	79.1%
TLC (L)	6.8	5.8	117%
RV (L)	2.0	1.0	200%
FRC (L)	3.3	2.3	143%

Does the patient have obstructive or restrictive disease? **Obstructive Disease**

Test	Actual	Predicted	% Predicted
FVC	3.6	4.15	86.7%
FEV1	1.66	3.45	48.1%
FEV1%	46%	83%	55.4%

Does the patient have obstructive or restrictive disease? **Obstructive Disease**

Test	Actual	Predicted	% Predicted
FVC	3.2	4.65	68.8%
FEV1	2.7	3.87	69.8%
FEV1%	84%	83%	101%

Does the patient have obstructive or restrictive disease? **Restrictive Disease**