

PFV test

Step 1 - obstruction or not

FEV_1 (exhale volume in 1 sec) $\geq 70\%$ normal
 FVC (Total exhale volume) $< 70\%$ obstruction

Step 2 - GOLD classification (basically severity of obstruction)

Only look at the post-bronchodilator % of FEV_1

$\geq 80\%$ - mild

50 - 79% - moderate

26 - 49% - severe

$< 30\%$ - very severe

Step 3 - Reversible?

Only look at FEV_1 values

FEV_1 post BD - FEV_1 before BD = $\geq 12\%$ reversible
 $< 12\%$ not reversible

Question 1

① $FEV_1/FVC = 32\% \rightarrow < 70\% \rightarrow$ obstruction

② FEV_1 post-BD = 25% $\rightarrow < 30\% \rightarrow$ very severe

③ FEV_1 post BD - FEV_1 before BD = 25% - 23% = 2%

less than 12% \rightarrow not reversible

In summary, very severe obstruction w/ no reversibility

Question 2

① $FEV_1/FVC = 67\% \rightarrow < 70\% \rightarrow$ obstruction

② FEV_1 post-BD = 89% $\rightarrow \geq 80\% \rightarrow$ mild

③ FEV_1 post BD - FEV_1 before BD = 89% - 57% = 32%

greater than 12% \rightarrow reversible

In summary, mild obstruction w/ reversibility