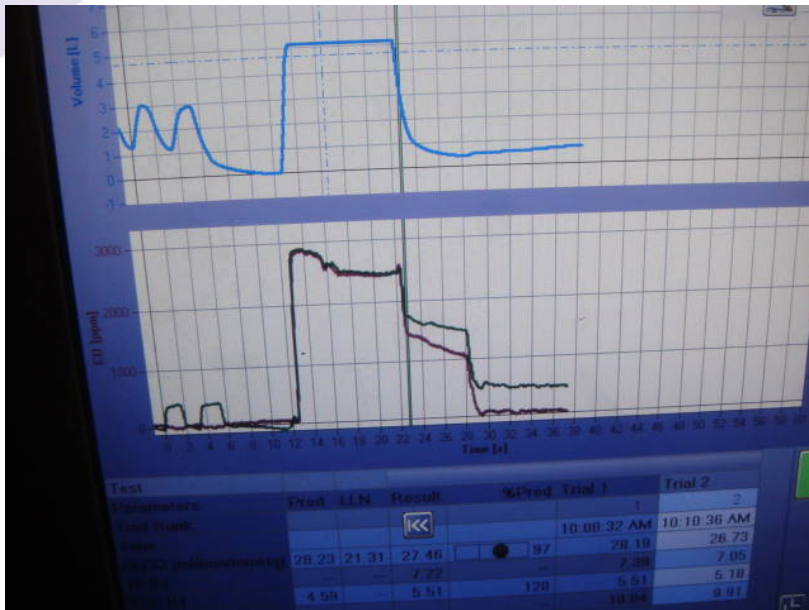


DLCO measurement with EasyOne Pro

“Leaks” in breath hold position.

Effect:

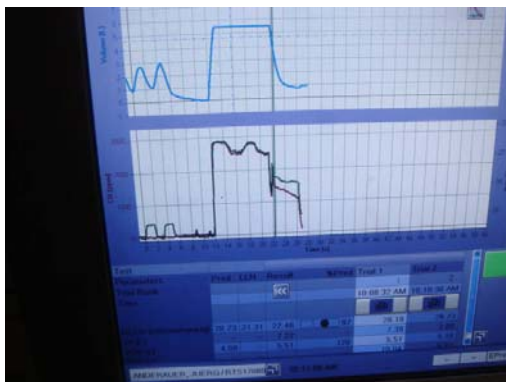


Cause:

Small leaks in the overflow valves

Likely cause maybe dust particles stuck between membrane and valve seat.

Countermeasure:



Ask the patient to give a little exhale pressure during breathhold “against the valve; just a touch of course, then the plateau will be maintained, this example shows a patient with a tiny under / overpressure and the effect on the “leak” induced pattern



This example shows a patient pushing a little bit from the onset of breath hold time (i.e. not to let the leak become effective.)

Considerations:

- These occurrences have absolutely no influence on the measurement, they are entirely in the discarded volume portion (washout) of the expired gas
- The benefit of seeing such little disturbances is to know that there is a little leak in order to take care of it later.
- Other manufacturer do not show real time measurement signal and “fake” a steady line for optical reasons

Cleaning of the overflow valve seat and membrane:



Remove the valve protection and carefully move the membrane with great care such as to remove dust particle, you may

- Lift the membrane
- Blow with a rubber balloon
- Move the membrane on the seat by slight finger pressure (see above)

Then reposition the valve protection

In case of damage to the valve seat:



You may remove the fragile membrane by pushing the retainer ring slowly and carefully. **NEVER** pull on the membrane



Then you can even smoothen the seat with a soft polishing paste or tooth paste. Rinse and dry reposition the membrane correctly.

In any case please be assured that the problem is entirely cosmetic.

26.08.2009 / JA