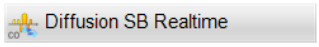
VYNTUS™ QUICK GUIDE

JAEGER

Diffusion SB (Single Breath) Realtime Workflow Quick Guide

Vyntus™ ONE, Vyntus™ ONE-PFT, Vyntus™ ONE-DL, Vyntus™ BODY

1. Select the measurement program **"Diffusion SB Realtime"** → 

(Either from the Home Page or a Measurement Program)

2. Wait for initial gas-sensor preparation and ensure sample Line (drying tube) is connected from the USS MicroGard™ Adapter to the analyzer unit for gas sampling

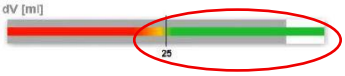


Preparation: Verbally explain measurement to patient and/or give demonstration

3. Click **<F1> "Start"** to begin the DLCO measurement → 

(Patient should not be connected during the sensor zeroing) 

4. Connect the patient *(after the zeroing phase)* & coach to breathe normally until a steady tidal breathing is shown *(about 5 breaths)* AND **exhale completely**

5. During exhalation, click **<F1> "Manoeuver"** to prepare system for next step → 



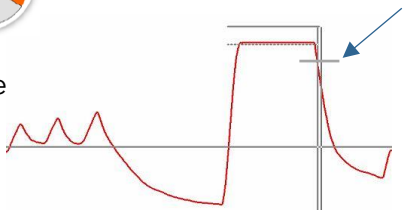
(Continue coaching exhalation until completely empty)

6. **Inhale completely** when prompted (to above dotted line at 90% VC_{max} within 4 seconds) (*test gas CO/CH_4 is inhaled during this phase*)

7. After full inhalation, have the patient **hold their breath** → 

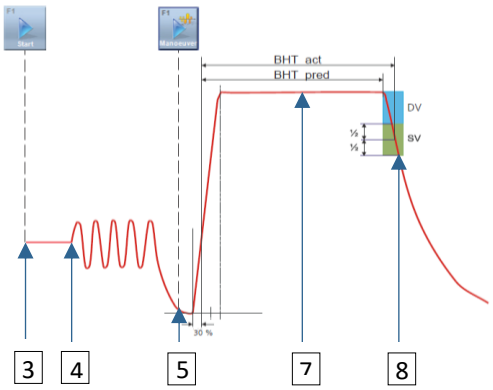
(approximately 10 seconds; BHT = 8-12 seconds)

8. Have the patient **exhale when the shutter opens** (through the sample volume 4-second line) AND take one breath in to end the test
(NOTE: the test will end automatically, do not press <F3>)



9. Remove the patient from the mouthpiece

10. To assess repeatability for DLCO, repeat steps 3 – 9 (minimum two trials*)
(Wait 4 minutes between trials OR until the patient is sufficiently washout out)



***Repeatability & Reporting**

Minimum two acceptable DLCO trials within 2 mL·min−1·mmHg−1

Eur Respir J 2017; 49: 1-31: 2017 ERS/ATS standards for single-breath carbon monoxide uptake in the lung

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