VYNTUS™ QUICK GUIDE

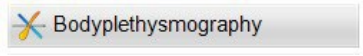
JAEGER

Body Plethysmography: sRAW with FRCpleth*
Workflow Quick Guide

Vyntus™ BODY

***Note: Body Plethysmography 'Program Settings' must be configured properly; see page 2.**

1. Select measurement program "**Bodyplethysmography**" (from Home Page or a measurement program),



…the program "**Body Separated**" is shown 

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

2. **Door**: a) With patient in cabin, click **<F7>** to activate the door magnets, and
   b) close the body box door by pressing the door gently to the magnets
   (Mic/speaker: turn on manually with <F6>, or activates autimatcially with <F1>/<F2>.)

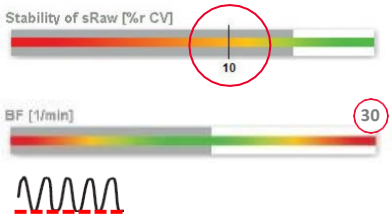


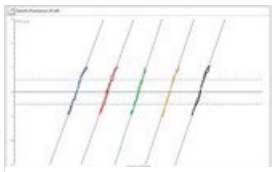
3. Connect patient to breathing circuit with MicroGard™ filter, nose clip, and support the cheeks (consider flange-type mouthpiece to aid mouth seal)

4. **Stable FRC and sRAW:** Click **<F1> "Start"** as patient begins steady tidal breathing



   a) Collect repeatable sRAW loops **(CV < 10%)**
   b) With **BF (breathing frequency) near 30/min**
      Breathing should be gentle (not panting),
      approx. 1 breath every 2 seconds
   c) Wait for stable FRC indicated by **red dashed line** under tidal volume curves




Specific Resistance (sRAW)

5. **FRCpleth (VTG):** AFTER **red dashed line** appears, patient continues breathing **BF ≈ 30** (not > 60/min) …

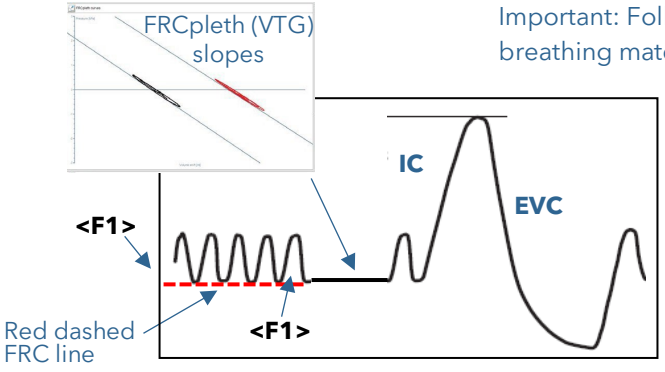
   Click **<F1> "Continue"** to close shutter and measure FRCpleth (VTG)

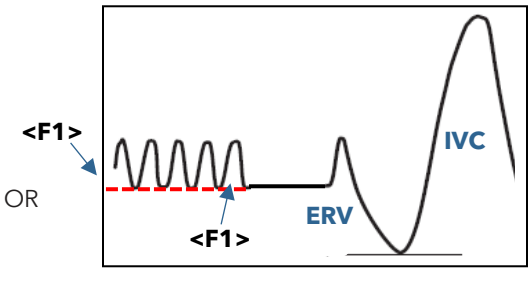


   - Continue instructing patient to breath "in and out, in and out" against closed shutter
   - Breathing should remain gentle, approx. 1 breath/2 sec
   - <F1> icon will turn green after 1 slope, indicating ability to manually open shutter if desired

6. **LINKED VITAL CAPACITY (VC):** AFTER shutter opens, have patient **perform slow spirometry** either an IC-EVC or an ERV-IVC maneuver per textual guidance and Program Settings configuration*

Important: Follow onscreen textual guidance to ensure breathing matches the workflow in *Program Settings*



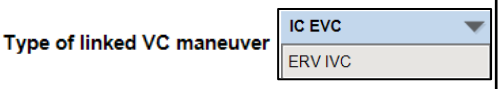


7. Click <F3> "Stop" to end the measurement → 

8. To assess **repeatability** for FRCpleth, repeat steps 2-7 (minimum three FRCpleth trials**)
   - <F1> "Start" to re-collect sRaw AND additional FRCpleth trials → 

   - <F2> "Start" to collect additional FRCpleth trials ONLY (and keep existing sRaw values) → 

*PROGRAM SETTINGS

- Select desired workflow for slow spirometry 'IC EVC' or 'ERV IVC' → 

  Note: In ≤3.20, must ensure 'evaluation' settings are correct for lung volume calculations

  CAUTION in SentrySuite™ networks: The 'BODY measurement sequence' workflow selection is a 'local' or workstation-only setting, however most other Program Settings are 'global' which will affect all devices in a network!

**REPEATABILITY & REPORTING

- Minimum of three acceptable FRCpleth maneuvers within 5% of each other (i.e., difference between the highest and lowest value divided by the mean is less than or equal to 0.05) and three acceptable slow spirometry maneuvers
- If less than two acceptable FRCpleth maneuvers collected, report with a note of caution that repeatability could not be assessed

REFERENCES

- SentrySuite™ Body Plethysmography user manual ("EN_SeS_Bodyplethysmography.pdf")
- Bhakta NR, McGowan A, Ramsey KA, et al. European Respiratory Society/American Thoracic Society technical statement: standardisation of the measurement of lung volumes, 2023 update. Eur Respir J 2023; 62: 2201519 [DOI: 10.1183/13993003.01519-2022].

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