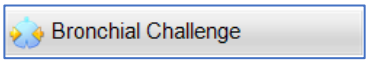
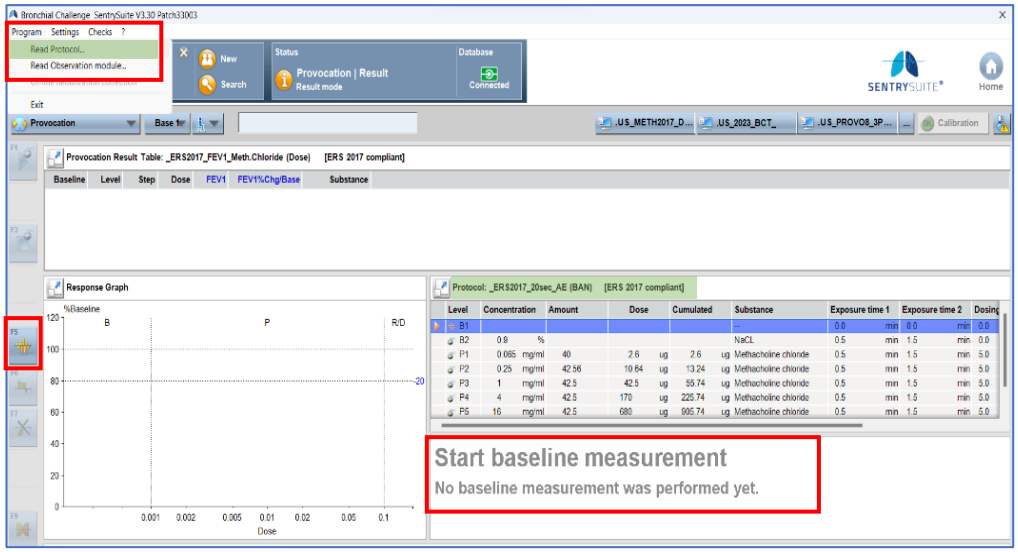
VYNTUS™ QUICK GUIDE

JAEGER

Bronchial Challenge Workflow Quick Guide

1. Go to the "**Bronchial Challenge**" measurement program → 

   - Default protocol will be selected; To select a different protocol (or observation module), click **[Program]**, then **[Read Protocol]** or **[Read Observation Module]** to make desired selection.
   - SentrySuite™ will display a message to '**Start baseline measurement**' (i.e., Spirometry). The initial step will be marked as Level 'B1'.



Note: A **protocol** defines the number and type of levels, the substance and its concentration, the dose to be administered, the exposure times and dosing Interval, and the mode of administration. An **observation module** defines the observation parameters (i.e., FEV_1), the contraindication thresholds, and the response graph and table.

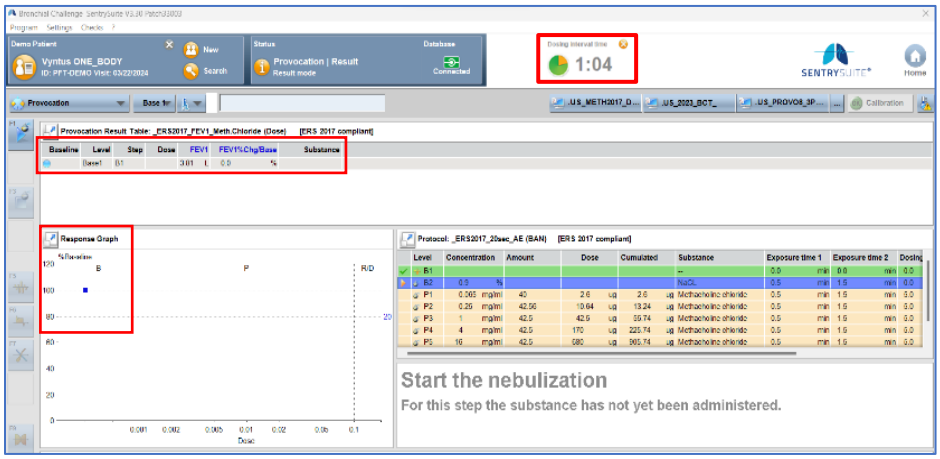
2. Click  **<F5>** to begin **Spirometry** (or [F6 Rocc] or [F7 Pleth] for other measurements per protocol)

3. Perform the appropriate number of observation measurements

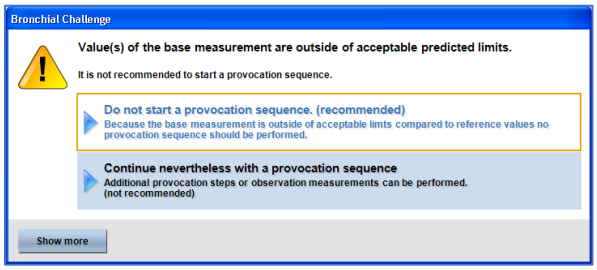
4. Click "**Return to Bronchial Challenge**" in the upper right corner of the screen to return to the Bronchial Challenge program to proceed to the next level of the selected protocol



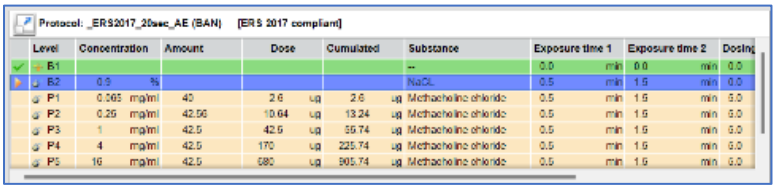
5. Upon returning to the Bronchial Challenge program, the observation results (i.e. FEV_1 from Spirometry) will be displayed in the Response Table (FEV1%Base) and plotted on the Response Graph



- If a contraindication threshold limit has been reached (i.e., FEV_1 < 1.5L or 60%Pred) per the selected Observation Module, a message will appear warning the operator against moving forward with the bronchial challenge test.



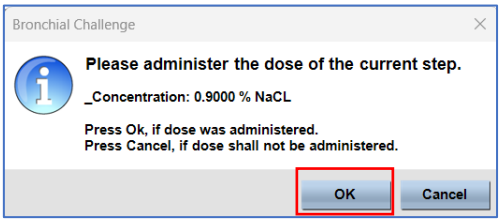
- If a contraindication threshold limit was not reached, the next provocation level (i.e., diluent 'B2' or provocation substance 'P1') will automatically be selected to proceed with.



6. Click  **<F1>** to administer substance of next level (i.e., Saline or Methacholine)

- Click **<OK>** after the dose has been administered
- The Exposure Timer will begin counting the seconds since the last dose.





7. Click **<F5>** to go to the **Spirometry** measurement (or other measurement icon). After the appropriate exposure time, perform Spirometry. (i.e., Spirometry at 30 and 90 seconds)

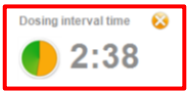
8. Click "**Return to Bronchial Challenge**" to transfer observation results and proceed to next provocation level. *If two or more Base levels performed, the operator can adjust which level to use as 'reference' level BEFORE advancing to the provocation substance levels. (Note: SeS 3.30+ allows to modify 'reference' level AFTER completion of test; this is not available in SeS 3.20 or lower.)*

Baseline	Level	Step	Dose	FEV1		FEV1%Chg/Base		Substance
	Base1	B1		3.81	L	3.4	%	
	Base2	B2		3.68	L	0.0	%	NaCL

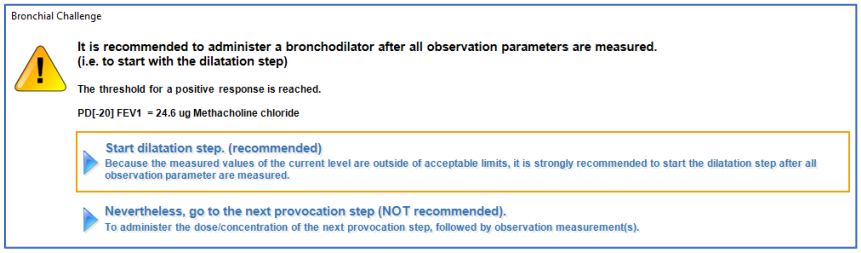
Continuing through the Bronchial Challenge protocol

9. Repeat the administration of the next provocation level substance **<F1>**, performing associated observation measurements **<F5>** and returning to Bronchial Challenge <u>until the observation threshold limit has been reached</u> (I.e., 20% decrease in FEV_1) or all the provocation levels have been completed.

   - Observation results will be transferred at completion of each provocation level & displayed in the Response Table and plotted on the Response Graph
   - Mind the Dosing Internal Timer in between provocation levels (i.e., Methacholine = 5 min)

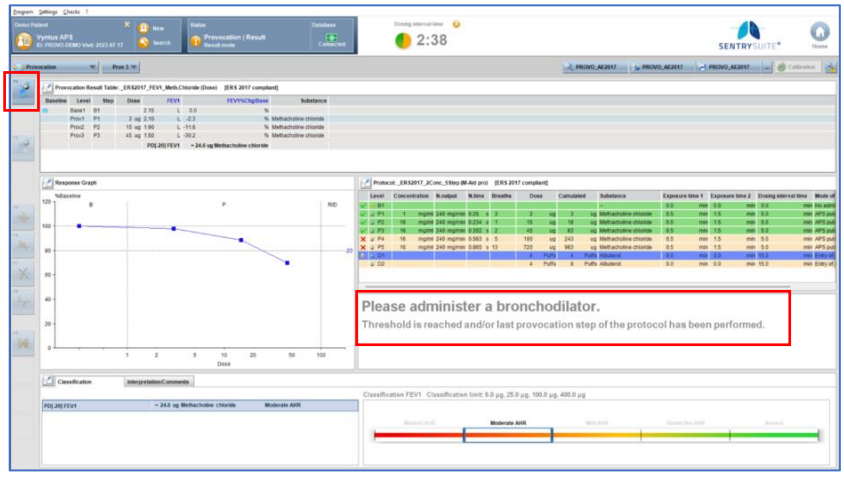


     - If the observation threshold limit has been reached (i.e., 20% decrease in FEV1 or PD20), a message will appear informing the operator. Dilatation will be recommended.



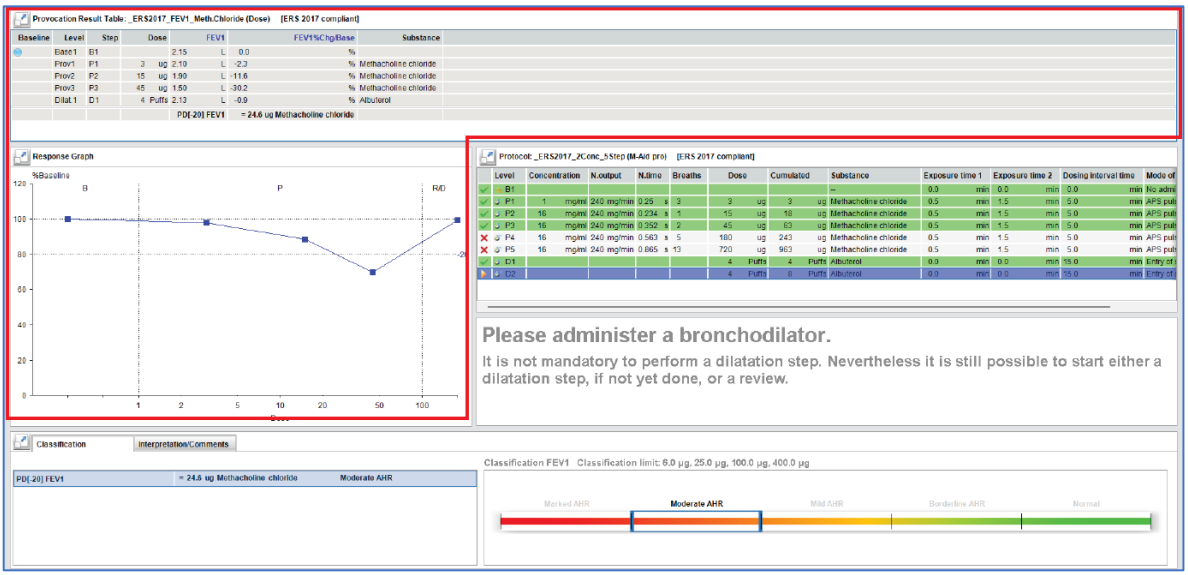
     - Click **<Start dilatation step. (recommended)>** to advance to dilatation level(s)

10. Click **<F1>** to give bronchodilator and **<OK>** once the bronchodilator substance has been administered.



11. Click **<F5>** to go to **Spirometry** (or other desired measurement) and perform observation measurement(s) after the appropriate exposure time (i.e, 10-15 minutes).

12. Click "**Return to Bronchial Challenge**" to transfer observation results.
    - Observation results will be displayed in the Response Table and Graph
    - Operator to monitor for a return of the observation result to within 10% of baseline value.
      (If using an "ERS 2017 compliant" protocol in SeS 3.30+, then a notification will appear if not within 10% and will recommend repeating dilation step; this notification is not available in SeS 3.20 or lower.)

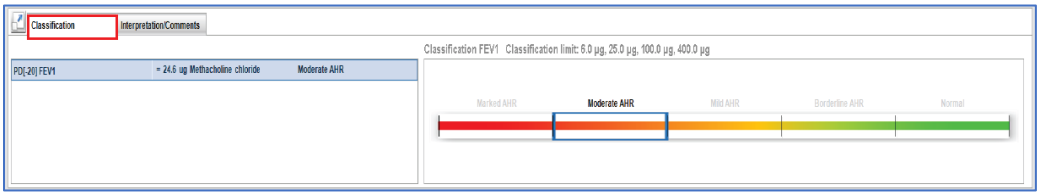


    - If needed, complete a second dilatation step administering bronchodilator substance and repeating observation measurement.
    - Make sure the patient has recovered appropriately before concluding the study.

Comments, Classification and Reports

13. Enter operator comments under the "Interpretation/Comments" tab.

14. Classification of results based on observation module can be viewed via "Classification" tab.



15. Select the desired report to print or save.

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