



## INDUCED SPUTUM WORKSHEET

For post albuterol FEV<sub>1</sub> <50% Predicted

ID NUMBER:

FORM CODE: **ISP**  
VERSION: 4.0 04/05/2019

Event \_\_\_\_\_

0a) Form Date:   /   /

0b) Staff Code

0c) Date Collected:   /   /

0d) Procedure Start Time:   :   AM/PM (circle one)

**Instructions:** This form should be completed during the participant's visit.

0e) Was sputum induction performed on this participant?

No<sub>0</sub>

Yes<sub>1</sub> → **Go to 1**

0f) Reason procedure was not performed:

<35% FEV<sub>1</sub> prior to sputum induction<sub>1</sub>

Participant could not perform acceptable spirometry<sub>2</sub>

PI felt not safe<sub>3</sub>

Participant refused<sub>4</sub>

Other<sub>5</sub>

0f1) If other, please specify: \_\_\_\_\_

**If sputum induction was not performed, go to 31 after completing 0f.**

3a11a) 1) Was the participant re-dosed with albuterol immediately prior to sputum induction? (e.g., >165 minutes elapsed since initial bronchodilator dose for PFTs)

No<sub>0</sub> → **Go to 2**

Yes<sub>1</sub>

3b11b) 1a) How many puffs of albuterol was the participant given?

puffs

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**Record FEV<sub>1</sub> for all participants. Participant that are redosed perform and record 10 minutes post albuterol.**

		Pre-Sputum Induction Baseline FEV <sub>1</sub>
4a12)	Trial #1	
5a23)	Trial#2	
6a34)	Trial #3	

745) Trial spirometry reviewed by: \_\_\_\_\_

856) Spirometry ok to continue?

No<sub>0</sub> → **Go To 24**

Yes<sub>1</sub>

1a/1b9/9a7) 10% fall from   .   multiplied by 0.9 is   .   . Use this value to determine if saline is to be increased to the next highest concentration for next inhalation period (use best FEV<sub>1</sub> from trials 1-3 for calculation)

2a/2b10/10a8) 20% fall from   .   multiplied by 0.8 is   .   . Use this value to discontinue procedure, give albuterol. Perform PFTs at 10 minutes (use best FEV<sub>1</sub> from trials 1-3 for calculation)

FEV<sub>1</sub>

12a129)	1 min at 0.9% NaCl If FEV <sub>1</sub> <20% drop, continue	
13a1310)	2 min at 0.9% NaCl If FEV <sub>1</sub> <20% drop, continue	
14a1411)	5 min at 0.9% NaCl If FEV <sub>1</sub> <20% drop, continue	
15a1512)	7 min at 0.9% NaCl	
1613)	First 7 minutes complete, continue induction?  If FEV <sub>1</sub> ≥20% drop, then stop induction procedure.	<input type="checkbox"/> No <sub>0</sub> → <b>Go to 24</b> <input type="checkbox"/> Yes <sub>1</sub>
1714)	If yes, % NaCl used: NOTE: If FEV <sub>1</sub> <10% drop, then increase to 3% NaCl after sample is collected.  If FEV <sub>1</sub> =10-19% drop, then continue at 0.9% NaCl.	<input type="checkbox"/> 0.9% NaCl <sub>1</sub> <input type="checkbox"/> 3% NaCl <sub>0</sub>

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18a18) 15)	1 min If FEV <sub>1</sub> <20% drop, continue	
19a19) 16)	2 min If FEV <sub>1</sub> <20% drop, continue	
20a20) 17)	5 min If FEV <sub>1</sub> <20% drop, continue	
21a21) 18)	7 min If FEV <sub>1</sub> <20% drop, continue	
22) 19)	Second 7 minutes complete, continue induction?  If FEV <sub>1</sub> ≥20% drop, then stop induction procedure.	<input type="checkbox"/> No <sub>0</sub> → <b>Go to 24</b> <input type="checkbox"/> Yes <sub>1</sub>
19a)	If yes, % NaCl used: NOTE: if continuing, use same saline concentration if FEV <sub>1</sub> = 10-19%  If FEV <sub>1</sub> <10% use next highest saline concentration	<input type="checkbox"/> 0.9% NaCl <sub>1</sub> <input type="checkbox"/> 3% NaCl <sub>0</sub> <input type="checkbox"/> 4% NaCl <sub>2</sub>
23a23) 20)	1 min If FEV <sub>1</sub> <20% drop, continue	
24a24) 21)	2 min If FEV <sub>1</sub> <20% drop, continue	
25a25) 22)	5 min If FEV <sub>1</sub> <20% drop, continue	
26a26) 23)	7 min Third 7 minutes complete. <i>Induction Complete.</i>	

*Remind subject to rinse mouth and cheeks thoroughly, gargle - spit into sink.  
 Clear throat, scraping throat and roof of mouth - spit into sink. Blow nose – discard  
 Deep cough from chest and spit into sputum sample cup.  
 DO NOT HAWK OR SCRAPE when producing sample. Passively bring it past the throat into the cup!*

24) Procedure End Time:   :   AM/PM (circle one)

28) 25) Was the induction terminated early?

- No<sub>0</sub> → **Go to 27**  
 Yes<sub>1</sub>

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- 29) Reason terminated early
- FEV<sub>1</sub> dropped >20%<sub>1</sub>
  - Participant requested to stop<sub>2</sub>
  - Other<sub>3</sub>

29a) If Other, please specify: \_\_\_\_\_

- 30) Did the participant require additional albuterol?
- No<sub>0</sub> → **Go to 31**
  - Yes<sub>1</sub>

**If participant's FEV<sub>1</sub> dropped  $\geq 20\%$  from baseline and/or if a 2<sup>nd</sup> dose of albuterol was required, conduct a post-induction spirometry and record values here:**

FEV<sub>1</sub>

31a)31)28)	Trial #1	
36a)32)29)	Trial #2	
33a)33)30)	Trial #3	

- 31) Was a sputum sample collected from the participant?
- No, Neither Induced or Spontaneous<sub>0</sub>
  - Yes, Induced Sample<sub>1</sub>
  - Yes, Induced and Spontaneous Sample<sub>2</sub>
  - Yes, Spontaneous Sample<sub>3</sub>

**END OF FORM**