

INDUCED SPUTUM WORKSHEET

ID NUMBER:

FORM CODE: **ISP**
 VERSION: 1.0 10/17/2024

Event: _____

0a) Date of Collection: / /

0b) Staff Code:

0c) Procedure Start Time: : AM₁ / PM₂

Instructions: This form should be completed during the participant's clinic visit **if post albuterol FEV₁ < 50% but > 35% predicted.**

0d) Was sputum induction performed on this participant?

- No₀
 Yes₁ → **Go to 1**

0e) Reason procedure was not performed:

- < 35% FEV₁ prior to sputum induction₁
 Participant could not perform acceptable spirometry₂
 PI felt not safe₃
 Participant refused₄
 Other₅

0e1) If other, please specify: _____

If sputum induction was not performed, go to 30 after completing 0e.

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

- No₀ → **Go to 2**
 Yes₁

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

Record FEV₁ for all participants. Participants that are redosed perform and record 10 minutes post albuterol.

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

745) Trial spirometry reviewed by: _____

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85) Spirometry ok to continue?

- No₀ → **Go to 23**
 Yes₁

1a/1b/9a) 7) 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 FEV₁ from trials 1-3 for calculation).

2a/2b/10/10a) 8) 20% fall from . multiplied by 0.8 is . . Use this value to discontinue procedure, give albuterol. Perform PFTs at 10 minutes (use best FEV₁ from trials 1-3 for calculation).

FEV₁

12a/12) 9)	1 min at 0.9% NaCl If FEV ₁ < 20% drop, continue	
13a/13) 10)	2 min at 0.9% NaCl If FEV ₁ < 20% drop, continue	
14a/14) 11)	5 min at 0.9% NaCl If FEV ₁ < 20% drop, continue	
15a/15) 12)	7 min at 0.9% NaCl If FEV ₁ < 20% drop, continue	
16) 13)	First 7 minutes complete, continue induction? If FEV ₁ ≥ 20% drop, then stop induction procedure.	<input type="checkbox"/> No ₀ → Go to 23 <input type="checkbox"/> Yes ₁
17) 13a)	If yes, % NaCl used: NOTE: If FEV ₁ < 10% drop, then increase to 3% NaCl after sample is collected. If FEV ₁ = 10-19% drop, then continue at 0.9% NaCl.	<input type="checkbox"/> 0.9% NaCl ₁ <input type="checkbox"/> 3% NaCl ₀
18a/18) 14)	1 min If FEV ₁ < 20% drop, continue	
19a/19) 15)	2 min If FEV ₁ < 20% drop, continue	
20a/20) 16)	5 min If FEV ₁ < 20% drop, continue	
21a/21) 17)	7 min If FEV ₁ < 20% drop, continue	

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2218)	Second 7 minutes complete, continue induction? If FEV ₁ ≥ 20% drop, then stop induction procedure.	<input type="checkbox"/> No ₀ → Go to 23 <input type="checkbox"/> Yes ₁
18a)	If yes, % NaCl used: NOTE: If continuing, use same saline concentration if FEV ₁ = 10-19% drop. If FEV ₁ < 10% drop, use next highest saline concentration.	<input type="checkbox"/> 0.9% NaCl ₁ <input type="checkbox"/> 3% NaCl ₀ <input type="checkbox"/> 4% NaCl ₂
23a2319)	1 min If FEV ₁ < 20% drop, continue	
24a2420)	2 min If FEV ₁ < 20% drop, continue	
25a2521)	5 min If FEV ₁ < 20% drop, continue	
26a2622)	7 min <i>Induction complete.</i>	
22a)	Did the participant complete the third 7 minutes of the induction?	<input type="checkbox"/> No ₀ <input type="checkbox"/> Yes ₁

*Remind participant 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!*

23) Procedure End Time: : AM₁ / PM₂

2824) Was the induction terminated early?
 No₀ → **Go to 26**
 Yes₁

2925) Reason terminated early:
 FEV₁ dropped ≥ 20%₁
 Participant requested to stop₂
 Other₃

29a25a) Specify Other: _____

3026) Did the participant require additional albuterol?
 No₀ → **Go to 30**
 Yes₁

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If participant's FEV₁ dropped $\geq 20\%$ from baseline and/or if a 2nd dose of albuterol was required, conduct a post-induction spirometry and record values here:

FEV₁

31a3127)	Trial #1	
36a3228)	Trial #2	
33a3329)	Trial #3	

30) Was a sputum sample collected from the participant?

- No, Neither Induced nor Spontaneous₀
- Yes, Induced Sample₁ → **Go to 30b**
- Yes, Induced and Spontaneous Sample₂ → **Go to End**
- Yes, Spontaneous Sample₃

30a) Why was an induced sputum sample not collected?

- Participant unable to produce sample₁
- Participant refused to produce sample₂
- Participant requested to stop during collection₃
- Sample not acceptable₄
- Other₅

30a1) Specify Other: _____

→ **IF 'No, Neither Induced nor Spontaneous' to item 30 above, Go to 30b after item 30a**

→ **IF 'Yes, Spontaneous Sample' to item 30 above, Go to End after item 30a**

30b) Why was a spontaneous sputum sample not collected?

- Participant unable to produce sample₁
- Participant refused to produce sample₂
- Participant requested to stop during collection₃
- Sample not acceptable₄
- Other₅

30b1) Specify Other: _____

END OF FORM