

## INDUCED SPUTUM WORKSHEET

ID NUMBER:

FORM CODE: **ISP**  
 VERSION: 1.0 02/18/2025

Event: \_\_\_\_\_

0a) Date of Collection:   /   /

0b) Staff Code:

0c) Procedure Start Time:   :   AM<sub>1</sub> / PM<sub>2</sub>

**Instructions:** This form should be completed during the participant's clinic visit **if post albuterol FEV<sub>1</sub> < 50% but > 35% predicted.**

0d) Was sputum induction performed on this participant?

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

0e) 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>

0e1) If other, please specify: \_\_\_\_\_

**Instructions:** If sputum induction was not performed → **Go to 30**

3a11a 1) Was the participant redosed 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

**Instructions:** Record FEV<sub>1</sub> for all participants. Participants 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	

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

85) Spirometry ok to continue?

No<sub>0</sub> → **Go to 23**

Yes<sub>1</sub>

1a/1b9/9a) 7) 10% fall from   .   multiplied by 0.90 is   .

(use best FEV<sub>1</sub> from trials 1-3 for calculation)

2a/2b10/10a) 8) 20% fall from   .   multiplied by 0.80 is   .

(use best FEV<sub>1</sub> from trials 1-3 for calculation)

FEV<sub>1</sub>

12a) 9)	After 1 min at 0.9% NaCl If FEV <sub>1</sub> < 20% drop, continue at present concentration – do not increase saline concentration.	
13a) 10)	After 2 min at 0.9% NaCl If FEV <sub>1</sub> < 20% drop, continue at present concentration – do not increase saline concentration.	
14a) 11)	After 5 min at 0.9% NaCl If FEV <sub>1</sub> < 20% drop, continue at present concentration – do not increase saline concentration.	
15a) 12)	After 7 min at 0.9% NaCl If FEV <sub>1</sub> < 20% drop, continue at present concentration – do not increase saline concentration.	
16) 13)	First 7 minutes complete, continue induction? If FEV <sub>1</sub> ≥ 20% drop, then stop induction procedure, give albuterol. Perform PFTs at 10 minutes post administration.	<input type="checkbox"/> No <sub>0</sub> → <b>Go to 23</b> <input type="checkbox"/> Yes <sub>1</sub>
17) 13a)	If yes, % NaCl used: <b>NOTE:</b> 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>
18a) 14)	After 1 min If FEV <sub>1</sub> < 20% drop, continue at present concentration – do not increase saline concentration.	

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19a19) 15)	After 2 min If FEV <sub>1</sub> < 20% drop, continue at present concentration – do not increase saline concentration.	
20a20) 16)	After 5 min If FEV <sub>1</sub> < 20% drop, continue at present concentration – do not increase saline concentration.	
21a21) 17)	After 7 min If FEV <sub>1</sub> < 20% drop, continue at present concentration – do not increase saline concentration.	
22) 18)	Second 7 minutes complete, continue induction? If FEV <sub>1</sub> ≥ 20% drop, then stop induction procedure, give albuterol. Perform PFTs at 10 minutes post administration.	<input type="checkbox"/> No <sub>0</sub> → <b>Go to 23</b> <input type="checkbox"/> Yes <sub>1</sub>
18a)	If yes, % NaCl used: <b>NOTE:</b> If continuing, use same saline concentration if FEV <sub>1</sub> = 10-19% drop. If FEV <sub>1</sub> < 10% drop, 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) 19)	After 1 min If FEV <sub>1</sub> < 20% drop, continue at present concentration – do not increase saline concentration.	
24a24) 20)	After 2 min If FEV <sub>1</sub> < 20% drop, continue at present concentration – do not increase saline concentration.	
25a25) 21)	After 5 min If FEV <sub>1</sub> < 20% drop, continue at present concentration – do not increase saline concentration.	
26a26) 22)	After 7 min <i>Induction complete.</i>	
22a)	Did the participant complete the third 7 minutes of the induction?	<input type="checkbox"/> No <sub>0</sub> <input type="checkbox"/> Yes <sub>1</sub>

**Instructions:** Remind participant to rinse mouth and cheeks thoroughly, gargle - spit into sink - up to 3 times. Clear throat, scraping throat and roof of mouth - spit into sink. Blow nose – discard. Deep cough from chest and spit into sputum sample cup.

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**DO NOT HAWK OR SCRAPE** when producing sample. *Passively bring it past the throat into the cup!*

23) Procedure End Time:   :   AM<sub>1</sub> / PM<sub>2</sub>

28) 24) Was the induction terminated early?

- No<sub>0</sub> → **Go to 26**
- Yes<sub>1</sub>

29) 25) Reason terminated early:

- FEV<sub>1</sub> dropped ≥ 20%<sub>1</sub>
- Participant requested to stop<sub>2</sub>
- Other<sub>3</sub>

29a) 25a) Specify Other: \_\_\_\_\_

30) 26) Did the participant require additional albuterol?

- No<sub>0</sub> → **Go to 30**
- Yes<sub>1</sub>

**Instructions:** If participant's FEV<sub>1</sub> dropped ≥ 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) 27)	Trial #1	
36a) 28)	Trial #2	
33a) 29)	Trial #3	

30) Was a sputum sample collected from the participant?

- No, Neither Induced nor Spontaneous<sub>0</sub>
- Yes, Induced Sample<sub>1</sub> → **Go to 30b**
- Yes, Induced and Spontaneous Sample<sub>2</sub> → **Go to End**
- Yes, Spontaneous Sample<sub>3</sub>

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

- Participant unable to produce sample<sub>1</sub>
- Participant refused to produce sample<sub>2</sub>
- Participant requested to stop during collection<sub>3</sub>
- Sample not acceptable<sub>4</sub>
- Other<sub>5</sub>

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**

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

- Participant unable to produce sample<sub>1</sub>
- Participant refused to produce sample<sub>2</sub>
- Participant requested to stop during collection<sub>3</sub>
- Sample not acceptable<sub>4</sub>
- Other<sub>5</sub>

30b1) Specify Other: \_\_\_\_\_

**END OF FORM**