

## INDUCED SPUTUM WORKSHEET

ID NUMBER:

FORM CODE: ISW  
 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% 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:

- Participant could not perform acceptable spirometry<sub>1</sub>  
 PI felt not safe<sub>2</sub>  
 Participant refused<sub>3</sub>  
 Other<sub>4</sub>

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

**Instructions:** If sputum induction was not performed → **Go to 24**

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

*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	

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

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856) Spirometry ok to continue?

No<sub>0</sub> → **Go to 17**

Yes<sub>1</sub>

1a/1b9/9a7) 10% fall from   .   multiplied by 0.90 is   .

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

7a) 15% fall from   .   multiplied by 0.85 is   .

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

2a/2b10/10a8) 20% fall from   .   multiplied by 0.80 is   .

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

FEV<sub>1</sub>

12a129)	After 5 min at 3% NaCl If FEV <sub>1</sub> < 20% drop, continue at present concentration – do not increase saline concentration.	
13a1310)	After 2 min at 3% NaCl If FEV <sub>1</sub> < 20% drop, continue at present concentration – do not increase saline concentration.	
1411)	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 17</b> <input type="checkbox"/> Yes <sub>1</sub>
1511a)	If yes, % NaCl used: <b>NOTE:</b> If FEV <sub>1</sub> < 10% drop, then increase to 4% NaCl after sample is collected. If FEV <sub>1</sub> = 10-15% drop, then continue at 3% NaCl. If FEV <sub>1</sub> = 16-19% drop, then continue at 0.9% NaCl.	<input type="checkbox"/> 3% NaCl <sub>1</sub> <input type="checkbox"/> 4% NaCl <sub>0</sub>  <input type="checkbox"/> 0.9% NaCl <sub>2</sub>
16a1612)	After 5 min If FEV <sub>1</sub> < 20% drop, continue at present concentration – do not increase saline concentration.	
17a1713)	After 2 min If FEV <sub>1</sub> < 20% drop, continue at present concentration – do not	

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	increase saline concentration.	
1814)	<p>Second 7 minutes complete, continue induction?</p> <p>If FEV<sub>1</sub> ≥ 20% drop, then stop induction procedure, give albuterol. Perform PFTs at 10 minutes post administration..</p>	<input type="checkbox"/> No <sub>0</sub> → <b>Go to 17</b> <input type="checkbox"/> Yes <sub>1</sub>
1914a)	<p>If yes, % NaCl used:</p> <p><b>NOTE:</b> If you did not increase % NaCl in step 11a, then continue with concentration used in 11a (3% or 0.9%).</p> <p>If you did increase NaCl to 4% in step 11a and FEV<sub>1</sub> &lt; 10% drop, then increase to 5%.</p> <p>If FEV<sub>1</sub> = 10-15% drop, then continue at 4% NaCl.</p> <p>If FEV<sub>1</sub> = 16-19% drop, then continue at 3% NaCl.</p>	<input type="checkbox"/> 3% NaCl <sub>1</sub> <input type="checkbox"/> 4% NaCl <sub>2</sub> <input type="checkbox"/> 5% NaCl <sub>3</sub>  <input type="checkbox"/> 0.9% NaCl <sub>4</sub>
20a2015)	<p>After 5 min</p> <p>If FEV<sub>1</sub> &lt; 20% drop, continue at present concentration – do not increase saline concentration.</p>	
21a2116)	<p>After 2 min</p> <p><i>Induction complete.</i></p>	
16a)	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. DO NOT HAWK OR SCRAPE when producing sample. Passively bring it past the throat into the cup!

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

2318) Was the induction terminated early?  
 No<sub>0</sub> → **Go to 20**  
 Yes<sub>1</sub>

2419) Reason terminated early:  
 FEV<sub>1</sub> dropped ≥ 20%<sub>1</sub>  
 Participant requested to stop<sub>2</sub>  
 Other<sub>3</sub>

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24a) 19a) Specify Other: \_\_\_\_\_

25) 20) Did the participant require additional albuterol?

- No<sub>0</sub> → **Go to 24**  
 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>

26a) 26) 21)	Trial #1	
27a) 27) 22)	Trial #2	
28a) 28) 23)	Trial #3	

24) Was a sputum sample collected from the participant?

- No, Neither Induced nor Spontaneous<sub>0</sub>  
 Yes, Induced Sample<sub>1</sub> → **Go to 24b**  
 Yes, Induced and Spontaneous Sample<sub>2</sub> → **Go to End**  
 Yes, Spontaneous Sample<sub>3</sub>

24a) 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>

24a1) Specify Other: \_\_\_\_\_

→ **IF 'No, Neither Induced nor Spontaneous' to item 24 above, Go to 24b after item 24a**

→ **IF 'Yes, Spontaneous Sample' to item 24 above, Go to End after item 24a**

24b) 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>

24b1) Specify Other: \_\_\_\_\_

**END OF FORM**