

## INDUCED SPUTUM WORKSHEET

ID NUMBER:

FORM CODE: ISW  
 VERSION: 1.0 12/17/2024

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: \_\_\_\_\_

*If sputum induction was not performed, go to 24 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)

- 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 0.9 is   .  . Continue at present concentration – do not increase saline concentration (use best FEV<sub>1</sub> from trials 1-3 for calculation).

2a/2b10/10a8) 20% fall from   .   multiplied by 0.8 is   .  . Discontinue tests, give albuterol. Perform PFTs at 10 minutes post administration (use best FEV<sub>1</sub> from trials 1-3 for calculation).

FEV<sub>1</sub>

12a129)	2 min at 3% NaCl If FEV <sub>1</sub> < 20% drop, continue	
13a1310)	7 min at 3% NaCl If FEV <sub>1</sub> < 20% drop, continue	
1411)	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 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)	2 min If FEV <sub>1</sub> < 20% drop, continue	
17a1713)	7 min If FEV <sub>1</sub> < 20% drop, continue	
1814)	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 17</b> <input type="checkbox"/> Yes <sub>1</sub>
1914a)	If yes, % NaCl used: <b>NOTE:</b> If you did not increase % NaCl in step 11a, then continue with concentration used in 11a (3% or 0.9%).	<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>

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	<p>If you did increase NaCl to 4% 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>	
20a2015)	<p>2 min</p> <p>If FEV<sub>1</sub> &lt; 20% drop, continue</p>	
21a2116)	<p>7 min</p> <p><i>Induction complete.</i></p>	
16a)	<p>Did the participant complete the third 7 minutes of the induction?</p>	<input type="checkbox"/> No <sub>0</sub> <input type="checkbox"/> Yes <sub>1</sub>

*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!*

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

23 18) Was the induction terminated early?

- No<sub>0</sub> → **Go to 20**  
 Yes<sub>1</sub>

24 19) Reason terminated early:

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

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

25 20) Did the participant require additional albuterol?

- No<sub>0</sub> → **Go to 24**  
 Yes<sub>1</sub>

*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>

26a2621)	Trial #1	
27a2722)	Trial #2	
28a2823)	Trial #3	

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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**