

INDUCED SPUTUM WORKSHEET

ID NUMBER:

FORM CODE: ISW
 VERSION: 1.0 05/08/2025

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% predicted.**

0d) Was sputum induction performed on this participant?

- No₀
 Yes₁ → **Go to 1**

0e) Reason procedure was not performed:

- Participant could not perform acceptable spirometry₁
 PI felt not safe₂
 Participant refused₃
 Other₄

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)

- 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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856) Spirometry ok to continue?

No₀ → **Go to 17**

Yes₁

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

(use best FEV₁ from trials 1-3 for calculation)

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

(use best FEV₁ from trials 1-3 for calculation)

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

(use best FEV₁ from trials 1-3 for calculation)

FEV₁

12a129)	After 5 min at 3% NaCl If FEV ₁ < 20% drop, continue at present concentration – do not increase saline concentration.	
13a1310)	After sample collection at 3% NaCl for first 7 min inhalation period	
1411)	First 7 minutes complete, continue induction? If FEV ₁ ≥ 20% drop, then stop induction procedure, give albuterol. Perform PFTs at 10 minutes post administration.	<input type="checkbox"/> No ₀ → Go to 17 <input type="checkbox"/> Yes ₁
1511a)	If yes, % NaCl used: NOTE: If FEV ₁ < 10% drop, then increase to 4% NaCl after sample is collected. If FEV ₁ = 10-15% drop, then continue at 3% NaCl. If FEV ₁ = 16-19% drop, then continue at 0.9% NaCl.	<input type="checkbox"/> 3% NaCl ₁ <input type="checkbox"/> 4% NaCl ₀ <input type="checkbox"/> 0.9% NaCl ₂
16a1612)	After 5 min If FEV ₁ < 20% drop, continue at present concentration – do not increase saline concentration.	
17a1713)	After sample collection for second 7 min inhalation period	

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1814)	<p>Second 7 minutes complete, continue induction?</p> <p>If FEV₁ ≥ 20% drop, then stop induction procedure, give albuterol. Perform PFTs at 10 minutes post administration..</p>	<input type="checkbox"/> No ₀ → Go to 17 <input type="checkbox"/> Yes ₁
1914a)	<p>If yes, % NaCl used:</p> <p>NOTE: 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 FEV₁ < 10% drop, then increase to 5%.</p> <p>If FEV₁ = 10-15% drop, then continue at 4% NaCl.</p> <p>If FEV₁ = 16-19% drop, then continue at 3% NaCl.</p>	<input type="checkbox"/> 3% NaCl ₁ <input type="checkbox"/> 4% NaCl ₂ <input type="checkbox"/> 5% NaCl ₃ <input type="checkbox"/> 0.9% NaCl ₄
20a2015)	<p>After 5 min</p> <p>If FEV₁ < 20% drop, continue at present concentration – do not increase saline concentration.</p>	
21a2116)	<p>After sample collection for third/final 7 min inhalation period</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 ₀ <input type="checkbox"/> Yes ₁

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: : AM₁ / PM₂

2318) Was the induction terminated early?
 No₀ → **Go to 20**
 Yes₁

2419) Reason terminated early:
 FEV₁ dropped ≥ 20%₁
 Participant requested to stop₂
 Other₃

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24a) 19a) Specify Other: _____

25) 20) Did the participant require additional albuterol?

- No₀ → **Go to 24**
 Yes₁

Instructions: 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

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 Spontaneous₀
 Yes, Induced Sample₁ → **Go to 24b**
 Yes, Induced and Spontaneous Sample₂ → **Go to End**
 Yes, Spontaneous Sample₃

24a) 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

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

24b1) Specify Other: _____

END OF FORM