



# Specimen Collection

Northwestern Memorial Hospital  
April 2020



# Sputum Induction

## General information

For suspected TB cases, the patient must be in a negative airflow room.

For all other specimen collections, the practitioner must wear a mask to observe droplet isolation precautions.

# Sputum Induction

## Equipment

- Clean toothbrush
- Tap water
- Nebulizer kit
- Single dose of albuterol 2.5 mg/3 mL
- 3% sodium chloride
- Specimen container

# Sputum Collection

## Procedure

1. Order the appropriate medications: A bronchodilator and hypertonic (3%) sodium chloride.
2. Obtain pre-treatment vitals: Heart rate, respiratory rate, breath sounds, mental status.
3. Reposition the patient so they are sitting upright.
4. Ask the patient to brush their teeth with a clean toothbrush and tap water (no toothpaste).
5. After brushing, the patient should gargle and thoroughly rinse their mouth with tap water.
6. Ask the patient to cough and produce a sputum sample.

# Sputum Collection

## Procedure

6. If no sputum is coughed up, administer albuterol followed by 3% sodium chloride using a small volume nebulizer.

7. Set up the nebulizer as shown.

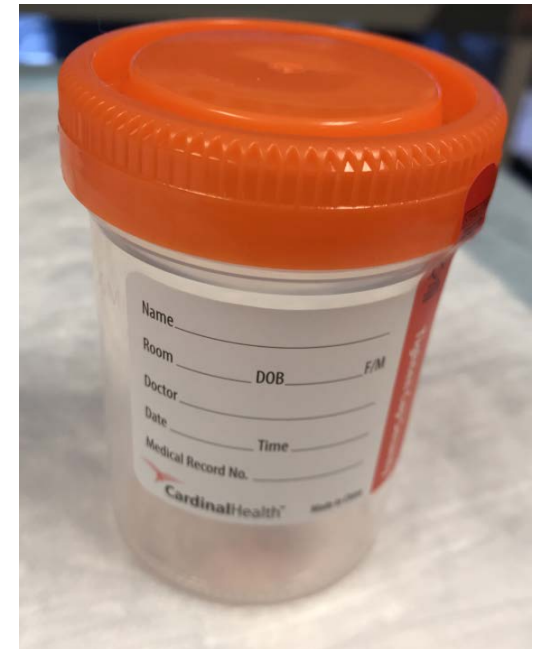
8. Please note that patients 3% sodium chloride MAY induce bronchospasm, if patient reports SOB or chest tightness.



# Sputum Collection

## Procedure

9. Ask the patient to cough into a sterile specimen cup.
10. Place a patient label on the specimen cup and leave in the room in the event the patient is able to produce sputum after the practitioner has left the room.



# Epic

## Sputum collection

		1230	1240
<b>Inhalation Therapy Tx</b>			
Delivery Source	Oxygen		
Interface	Mouthpiece		
O2 Therapy	Room air		
O2 Device	None (Room air)		
FiO2 (%)			
O2 Flow Rate (L/min)			
SpO2	98		
Safety Instructions			
Equipment Change Due Date			
Personal Best Peak Flow			
Predicted Peak Flow			
Pre Peak Flow			
Pre-Treatment Breath Sounds Right	Coarse		
Pre-Treatment Breath Sounds Left	Coarse		
Pre-Treatment Pulse	86		
Pre-Treatment Respirations	20		
Post Peak Flow			
Post-Treatment Breath Sounds Right		Improved	
Post-Treatment Breath Sounds Left		Improved	
Post-Treatment Pulse		87	
Post-Treatment Respirations		24	
Post-Treatment SpO2		97	
Cough			
Respiratory Pattern			
Duration	10	10	
Treatment Device	H&H	H&H	
Rinse Mouth			
Treatment tolerated?		Yes	
<b>Additional Assessments</b>			
Heart Rate			
Respirations			

If more than one medication is given, create a second time column.

- Document pre in the first column and post in the second.
- Add the medication name in the comments section

1. Document inhalation therapy.
2. Document sputum collection in "RT Assessment."

## Airway Suctioning/Secretions

Suction Setup at Bedside	Yes
Suction Type	
Secretion Amount	Moderate
Secretion Color	Tan
Secretion Consistency	Thick

## Sputum Induction

Sputum how collected	Induced
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