

# DATA COLLECTION FORM

## BALLARD™ LIBERATOR ET TUBE CLEARING SYSTEM

<b>Circle Liberator Used:</b>	Liberator 7-7.5 mm	Liberator 8-8.5 mm	<b>Date and Time Intubated:</b>	/ /	AM / PM	
<b>Primary Diagnosis:</b>	<b>Mode of ventilation:</b>		<b>Circle Type of Uumidification Used:</b>	HME	HCH	Heated Wire

**STEP 1:** Suction patient per hospital protocol. If suctioned, allow patient to stabilize before proceeding to Step 2.

**STEP 2:** Record Pre-ETT cleaning ventilator measurements.

<b>Fill in Blanks For Date &amp; Time:</b>	/ /	AM / PM	/ /	AM / PM	/ /	AM / PM	/ /	AM / PM
<b>Peak Inspiratory Pressure (PIP) cm H<sub>2</sub>O</b>								
<b>Airway Resistance (Raw) cm H<sub>2</sub>O/L/sec</b>								

**STEP 3:** Complete ETT cleaning procedure following manufacturer instructions for use. Do not use with tracheostomy tubes or ETTs size <7 or >8.5 mm.

**STEP 4:** Allow patient to stabilize post-cleaning and then record post-ETT cleaning ventilator measurements.

<b>Fill in Blanks For Date &amp; Time:</b>	/ /	AM / PM	/ /	AM / PM	/ /	AM / PM	/ /	AM / PM
<b>Peak Inspiratory Pressure (PIP) cm H<sub>2</sub>O</b>								
<b>Airway Resistance (Raw) cm H<sub>2</sub>O/L/sec</b>								

**STEP 5:** Record the following observations after EFF cleaning (see reverse for key).

<b>Fill in Blanks For Date &amp; Time:</b>	/ /	AM / PM	/ /	AM / PM	/ /	AM / PM	/ /	AM / PM
<b>Please circle the appropriate option in each column below</b>								
<b>Amount of secretions removed (estimate)</b>	< 1 cc > 1 cc > 2 cc	< 1 cc > 1 cc > 2 cc	< 1 cc > 1 cc > 2 cc	< 1 cc > 1 cc > 2 cc	< 1 cc > 1 cc > 2 cc	< 1 cc > 1 cc > 2 cc	< 1 cc > 1 cc > 2 cc	< 1 cc > 1 cc > 2 cc
<b>Color of secretions removed</b>	Clear Bloody Other	Clear Bloody Other	Clear Bloody Other	Clear Bloody Other	Clear Bloody Other	Clear Bloody Other	Clear Bloody Other	Clear Bloody Other
<b>Thickness of secretions removed</b>	Thin Tenacious Purulent	Thin Tenacious Purulent	Thin Tenacious Purulent	Thin Tenacious Purulent	Thin Tenacious Purulent	Thin Tenacious Purulent	Thin Tenacious Purulent	Thin Tenacious Purulent
<b>Did the patient tolerate the procedure as compared to suctioning?</b>	Yes, better than Same No, worse than	Yes, better than Same No, worse than	Yes, better than Same No, worse than	Yes, better than Same No, worse than	Yes, better than Same No, worse than	Yes, better than Same No, worse than	Yes, better than Same No, worse than	Yes, better than Same No, worse than
<b>Did cleaning the ETT lead to improved patient status?</b>	Yes, it's better Unchanged No, it's worse	Yes, it's better Unchanged No, it's worse	Yes, it's better Unchanged No, it's worse	Yes, it's better Unchanged No, it's worse	Yes, it's better Unchanged No, it's worse	Yes, it's better Unchanged No, it's worse	Yes, it's better Unchanged No, it's worse	Yes, it's better Unchanged No, it's worse
<b>How would you rate ease of use of the Liberator?</b>	Good Fair Difficult	Good Fair Difficult	Good Fair Difficult	Good Fair Difficult	Good Fair Difficult	Good Fair Difficult	Good Fair Difficult	Good Fair Difficult
<b>Did the Liberator clear ETT better than suction alone? (more secretions removed, clinical improvement, etc.)</b>	Yes No Not sure	Yes No Not sure	Yes No Not sure	Yes No Not sure	Yes No Not sure	Yes No Not sure	Yes No Not sure	Yes No Not sure

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Additional data collection space (if needed)

<b>Fill in Blanks For Date &amp; Time:</b>	/ / AM / PM	/ / AM / PM	/ / AM / PM	/ / AM / PM
<b>Circle the Appropriate Stage of Use:</b>	Pre / Post	Pre / Post	Pre / Post	Pre / Post
<b>Peak Inspiratory Pressure (PIP) cmH2O</b>	/	/	/	/
<b>Airway Resistance (Raw) cmH2O/L/sec</b>	/	/	/	/
<b>Amount of secretions removed (estimate)</b>	< 1 cc	< 1 cc	< 1 cc	< 1 cc
	> 1 cc	> 1 cc	> 1 cc	> 1 cc
	> 2 cc	> 2 cc	> 2 cc	> 2 cc
<b>Color of secretions removed</b>	Clear	Clear	Clear	Clear
	Bloody	Bloody	Bloody	Bloody
	Other	Other	Other	Other
<b>Thickness of secretions removed</b>	Thin	Thin	Thin	Thin
	Tenacious	Tenacious	Tenacious	Tenacious
	Purulent	Purulent	Purulent	Purulent
<b>Did the Liberator clear ETT better than suction alone? (more secretions removed, clinical improvement, etc.)</b>	Yes	Yes	Yes	Yes
	No	No	No	No
	Not sure	Not sure	Not sure	Not sure

**EXTUBATION DATE/TIME:** \_\_\_\_\_

**ETT APPEARANCE AT EXTUBATION:** \_\_\_\_\_

**ADDITIONAL COMMENTS:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### ETT OBSERVATION AND CLEANING KEY

**Estimate amount of secretions removed from ETT:**

Length of Secretions in ETT (cm)	Volume Results (cc)
1.0	0.5
2.0	1.0
3.0	1.5
4.0	2.0

**Thickness of Secretions Removed:**

- **Thin:** mucus is clear and thin.
- **Tenacious:** holding fast, pertaining to secretions that are sticky or adhesive or otherwise tend to hold together, such as mucus and sputum.
- **Purulent:** containing, discharging, or causing the production of pus