

# SCOTI Evaluation Data Collection Sheet

Site number \_\_\_\_\_

## Data collector information

Person performing intubation (initials acceptable) \_\_\_\_\_  
Post-graduate year level (1, 2, 3, 4, 5, or staff) \_\_\_\_\_  
Person recording SCOTI LCD readings (initials) \_\_\_\_\_

## Patient information

Patient number \_\_\_\_\_  
Gender  Male  Female  
Age (years) \_\_\_\_\_ (check if estimated  )  
Weight (kilograms) \_\_\_\_\_ (check if estimated  )  
Height (centimeters) \_\_\_\_\_ (check if estimated  )  
General physique \_\_\_\_\_ [thin (1) average (2) obese (3)]

## Place of intubation

ED  OR  ICU  
 Ward  Prehospital  Other \_\_\_\_\_

## Intubation indications (check all that apply)

Asthma  COPD  Pneumonia  
 Airway obstruction  Pulmonary embolism  
 Cardiac arrest  Cardiac disease  
 Sepsis  
 Traumatic head injury  
 Other traumatic disorder  
 Toxicologic disorder  
 Other \_\_\_\_\_

## Intubation data (check all that apply)

Is the patient spontaneously breathing during intubation attempt?  Yes  No  
Are rapid sequence agents (NMB +/- sedation) utilized?  Yes  No  
[if yes, agents and doses used \_\_\_\_\_ ]  
Endotracheal tube size (internal diameter in millimeters) \_\_\_\_\_  
[Use a separate data collection sheet if during intubation attempts the ET tube must be changed and SCOTI recalibrated. Check the following box if this data sheet is being used for a patient whose ET tube had to be changed during intubation attempts .]  
 Nasogastric tube in place during intubation (if checked, size French \_\_\_\_\_ )  
 Stylet used  
[if checked, diameter in millimeters \_\_\_\_\_ and brand \_\_\_\_\_ ]

## Method of final confirmation of ETT placement in trachea (check all that apply)

Direct visualization of ET tube passing between cords  
 Auscultation  
 Esophageal detector device (other than SCOTI)  
 Disposable colorimetric CO<sub>2</sub> detector  
 Pulse oximetry  
 Chest radiograph  
 Real-time capnography  
 Other methods \_\_\_\_\_

## SCOTI calibration data

Mark the numeric reading from the LCD screen. Readings should be performed with the stylet in position if one is to be used during intubation.

“Configuration” reading (tube end-hole and Murphy eye occluded) \_\_\_\_\_ [Should be 0.]  
“Test” reading (tube end-hole and Murphy eye open) \_\_\_\_\_ [Should be >30.]

**Live patient SCOTI data**

Reading if ETT correctly placed (tube tip in mid-trachea) \_\_\_\_\_

Reading if ETT incorrectly placed (tube tip in esophagus) \_\_\_\_\_

If more than one intubation attempt performed in same patient, record serial readings each time tracheal tube tip believed to be in the *mid-trachea* in the spaces below.

\_\_\_\_\_

If more than one intubation attempt performed in same patient, record serial readings each time tracheal tube tip believed to be in the *esophagus* in the spaces below.

\_\_\_\_\_

Total number of separate intubation attempts. Count as separate each time an attempt is made to ventilate the patient, or each time a non-SCOTI esophageal detector device is connected to determine tube placement \_\_\_\_\_

Comments

**Recently deceased patient SCOTI data**

These tests should be performed within 60 minutes of death.

Reading when tube tip just past vocal cords \_\_\_\_\_

Reading when tube tip in mid-trachea \_\_\_\_\_

Reading when tube tip inserted into mainstem bronchus \_\_\_\_\_

Reading when tube tip in esophagus and 15 cm past central incisors \_\_\_\_\_

Reading when tube tip in esophagus and 20 cm past central incisors \_\_\_\_\_

Reading when tube tip in esophagus and 25 cm past central incisors \_\_\_\_\_

Comments