Products For The Difficult Airway
DIFFICULT AIRWAY ALGORITHM

1. Assess the likelihood and clinical impact of basic management problems:
   A. Difficult Ventilation
   B. Difficult Intubation
   C. Difficulty with Patient Cooperation or Consent
   D. Difficult Tracheostomy

2. Actively pursue opportunities to deliver supplemental oxygen throughout the process of difficult airway management

3. Consider the relative merits and feasibility of basic management choices:
   A. Awake Intubation vs. Intubation Attempts After Induction of General Anesthesia
   B. Non-Invasive Technique for Initial Approach to Intubation vs. Invasive Technique for Initial Approach to Intubation
   C. Preservation of Spontaneous Ventilation vs. Abiotion of Spontaneous Ventilation

4. Develop primary and alternative strategies:
   A. AWAKE INTUBATION
      - Airway Approached by Non-Invasive Intubation
        - Succeed*
        - Cancel Case
        - Consider Feasibility of Other Options(a)
        - Invasive Airway Access(b)*
        - FAIL
   B. INTUBATION ATTEMPTS AFTER INDUCTION OF GENERAL ANESTHESIA
      - Initial Intubation Attempts Successful*
      - Initial Intubation Attempts UNSUCCESSFUL
      - FROM THIS POINT ONWARDS CONSIDER:
        1. Calling for Help
        2. Returning to Spontaneous Ventilation
        3. Awakening the Patient

   - FACE MASK VENTILATION ADEQUATE
     - Non-Emergency Pathway
     - Ventilation Adequate, Intubation Unsuccessful
     - Alternative Approaches to Intubation(e)
     - Successful Intubation*
     - FAIL After Multiple Attempts
   - FACE MASK VENTILATION NOT ADEQUATE
     - CONSIDER / ATTEMPT LMA
     - LMA ADEQUATE*
     - LMA NOT ADEQUATE OR NOT FEASIBLE
     - EMERGENCY PATHWAY
     - Ventilation Not Adequate, Intubation Unsuccessful
     - Call for Help
     - Emergency Non-Invasive Airway Ventilation(e)
     - Successful Ventilation*
     - FAIL
   - IF BOTH FACE MASK AND LMA VENTILATION BECOME INADEQUATE
     - Emergency Invasive Airway Access(b)*
     - Consider Feasibility of Other Options(w)
     - Awake Patient(d)

* Confirm ventilation, tracheal intubation, or LMA placement with exhaled CO₂

- a. Other options include (but are not limited to): surgery utilizing face mask or LMA anesthesia, local anesthesia infiltration or regional nerve blockade. Pursuit of these options usually implies that mask ventilation will not be problematic. Therefore, these options may be of limited value if this step in the algorithm has been reached via the Emergency Pathway.
- b. Invasive airway access includes surgical or percutaneous tracheostomy or cricothyotomy.
- c. Alternative non-invasive approaches to difficult intubation include (but are not limited to): use of different laryngoscope blades, LMA as an intubation conduit (with or without fiberoptic guidance), fiberoptic intubation, intubating stylet or tube changer, light wand, retrograde intubation, and blind oral or nasal intubation.
- d. Consider re-preparation of the patient for awake intubation or canceling surgery.
- e. Options for emergency non-invasive airway ventilation include (but are not limited to): rigid bronchoscope, esophageal-tracheal combitube ventilation, or transtracheal jet ventilation.
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MELKER UNIVERSAL EMERGENCY CRICOHYROTOMY CATHETER SET

Used for emergency airway access when conventional endotracheal intubation cannot be performed.

- Airway access is achieved utilizing percutaneous entry (Seldinger) or surgical technique via the cricothyroid membrane.

Supplied sterile in peel-open packages. Intended for one-time use.

### COMPONENTS USED FOR SELDINGER TECHNIQUE

- **Syringe**
- **Introducer Needle**
  - 18 gage appropriate length
- **TFE Catheter Introducer Needle**
  - 18 gage appropriate length
- **Amplatzer Extra Stiff Wire Guide**
  - .038 inch diameter stainless steel, appropriate length with flexible tip
- **Scalpel**
- **Tapered Curved Dilator**
  - Radiopaque appropriate size and length
- **Inflated Airway Catheter**
  - Polyvinylchloride

### COMPONENTS USED FOR SURGICAL TECHNIQUE

- **Tracheal Hook**
- **Blunt Curved Dilator**
  - Radiopaque appropriate size and length
- **#11 Safety Scalpel**
- **Trousseau Dilator**

Set includes one airway catheter (shown) to be used with either blunt or tapered dilator.

### SET ORDER NUMBER

<table>
<thead>
<tr>
<th>AIRWAY CATHETER</th>
<th>Global Product Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner Diameter</td>
<td>Length</td>
</tr>
<tr>
<td>5 mm</td>
<td>9 cm</td>
</tr>
<tr>
<td>C-TCCSB-500-UNI</td>
<td>G32193</td>
</tr>
</tbody>
</table>

*Set consists of items shown above and drape, gauze pads, povidone-iodine swabsticks and solution, needle holder cup and cloth tracheostomy tape strip for fixation of airway catheter.
MELKER EMERGENCY CRICOTHYROTOMY CATHETER SETS
CUFFED

Used for emergency airway access when conventional endotracheal intubation cannot be performed.

- Airway access is achieved utilizing percutaneous entry (Seldinger) technique via the cricothyroid membrane.
- Subsequent dilation of the tract and tracheal entrance site permits passage of the emergency airway.
- Catheter is cuffed to protect and control airway.
- Airway catheter has radiopaque stripe.

Supplied sterile in peel-open packages. Intended for one-time use.

---

<table>
<thead>
<tr>
<th>SET ORDER NUMBER</th>
<th>AIRWAY CATHETER</th>
<th>Global Product Number</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-TCCSB-500</td>
<td>5 mm 9 cm</td>
<td>G29432</td>
<td></td>
</tr>
<tr>
<td>C-TCCSB-500-SPOPS</td>
<td>5 mm 9 cm</td>
<td>G26924</td>
<td>Custom packaged in slip peel-pouch design for easy transportation. Dilator is pre-inserted into airway catheter. Includes two 18 gage introducer needles, 5 cm and 7 cm.</td>
</tr>
</tbody>
</table>

*Sets consist of items shown above and cloth tracheostomy tape strip for fixation of airway catheter.
Patent Number 4,677,978
MELKER EMERGENCY CRICOXYROTOMY CATHETER SETS

Used for emergency airway access when endotracheal intubation cannot be performed.

- Airway access is achieved utilizing percutaneous entry (Seldinger) technique via the cricothyroid membrane.
- Subsequent dilation of the tract and tracheal entrance site permits passage of the emergency airway.
- Airway catheter has radiopaque stripe.

Supplied sterile in peel-open packages. Intended for one-time use.

---

### SET ORDER NUMBER

<table>
<thead>
<tr>
<th>AIRWAY CATHETER</th>
<th>Global Product Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C-TCCS-600</strong></td>
<td>6 mm 7.5 cm</td>
</tr>
<tr>
<td><strong>C-TCCS-400</strong></td>
<td>4 mm 4.2 cm</td>
</tr>
<tr>
<td><strong>C-TCCS-350</strong></td>
<td>3.5 mm 3.8 cm</td>
</tr>
</tbody>
</table>

*Sets consist of items shown above and cloth tracheostomy tape strip for fixation of airway catheter.

Patent Number 4,677,978*
MELKER EMERGENCY CRICOHYROTOMY CATHETER SET  
SPECIAL OPERATIONS

Used for emergency airway access when endotracheal intubation cannot be performed.

- Airway access is achieved utilizing percutaneous entry (Seldinger) technique via the cricothyroid membrane.
- Subsequent dilation of the tract and tracheal entrance site permits passage of the emergency airway.
- Airway catheter has radiopaque stripe.
- Custom packaged in slip peel-pouch design for easy transportation.
- Combines 4.0 mm catheter with a 6.0 mm catheter in one package thereby reducing the number of kits needed in the field.
- Dilators are pre-inserted into airway catheters.

Supplied sterile in peel-open packages. Intended for one-time use.

<table>
<thead>
<tr>
<th>SET ORDER NUMBER</th>
<th>SMALL AIRWAY CATHETER</th>
<th>LARGE AIRWAY CATHETER</th>
<th>Global Product Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-TCCS-600-SPOPS</td>
<td>Inner Diameter 4 mm</td>
<td>Inner Diameter 6 mm</td>
<td>G10699</td>
</tr>
<tr>
<td></td>
<td>Length 4.2 cm</td>
<td>Length 7.5 cm</td>
<td></td>
</tr>
</tbody>
</table>

1 Set consists of items shown above and cloth tracheostomy tape strip for fixation of airway catheter.

Patent Number 4,677,978
ARNDT EMERGENCY CRICOthyROTOMY CATHETER SET

Used for emergency airway access when conventional endotracheal intubation and ventilation cannot be performed.

- Airway access is achieved utilizing percutaneous entry (Seldinger) technique via the cricothyroid membrane.
- Subsequent dilation of the tract and tracheal entrance site permits passage of the emergency airway.

Supplied sterile in peel-open packages. Intended for one-time use.

<table>
<thead>
<tr>
<th>SET ORDER NUMBER1</th>
<th>AIRWAY CATHETER</th>
<th>NEEDLE</th>
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</thead>
<tbody>
<tr>
<td>C-DTJV-9.0-6.0-ARNDT</td>
<td>3 mm</td>
<td>15 mm</td>
</tr>
</tbody>
</table>

*Set consists of items shown above, sterile water, scalpel and cloth tracheostomy tape strip for fixation of airway catheter.
EMERGENCY TRANSTRACHEAL AIRWAY CATHETERS

Used for emergency airway access when conventional endotracheal intubation cannot be performed. Supplied sterile in peel-open packages. Intended for one-time use.

<table>
<thead>
<tr>
<th>ORDER NUMBER</th>
<th>CATHETER</th>
<th>NEEDLE</th>
<th>Global Product Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>French Size</td>
<td>Inner Diameter</td>
<td>Length</td>
</tr>
<tr>
<td>C-DTJV-6.0-5.0-BTT</td>
<td>6.0</td>
<td>2 mm</td>
<td>5.0 cm</td>
</tr>
<tr>
<td>C-DTJV-6.0-7.5-BTT</td>
<td>6.0</td>
<td>2 mm</td>
<td>7.5 cm</td>
</tr>
</tbody>
</table>
ENK OXYGEN FLOW MODULATOR SETS

Used with emergency transtracheal catheter ventilation when conventional ventilation by mask or endotracheal tube cannot be performed. The device allows manually controlled oxygen flow. Please refer to product insert prior to use. Supplied sterile in peel-open packages. Intended for one-time use.

<table>
<thead>
<tr>
<th>SET ORDER NUMBER</th>
<th>CATHETER</th>
<th>NEEDLE</th>
<th>Global Product Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-EFMS-100</td>
<td>French Size 6.0</td>
<td>Length 7.5 cm</td>
<td>Inner Diameter 2 mm</td>
</tr>
<tr>
<td>C-EFMS-101</td>
<td>French Size 6.0</td>
<td>Length 5.0 cm</td>
<td>Inner Diameter 2 mm</td>
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</tbody>
</table>
WADHWA EMERGENCY AIRWAY DEVICE

Used for emergency airway access when conventional endotracheal intubation cannot be performed.

- Components of the set include nasopharyngeal airway catheter, cricothyrotomy catheter and 15 mm adapter.
- This device and all of its components require pre-assembly and once assembled are non-sterile.

Intended for one-time use.

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**CRICOTHYROTOMY CATHETER**

**NASOPHARYNGEAL AIRWAY CATHETER**

**15 mm ADAPTER**

**ASSEMBLED AIRWAY DEVICE**

---

<table>
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<tr>
<th>ORDER NUMBER</th>
<th>CRICOTHYROTOMY CATHETER</th>
<th>NASOPHARYNGEAL AIRWAY CATHETER</th>
<th>Global Product Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-WEAD-100</td>
<td>9.0 6 cm</td>
<td>7.0 mm 9.5 cm</td>
<td>G26948</td>
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</tbody>
</table>

Patent Number 4,893,620
**COOK RETROGRADE INTUBATION SETS WITH RAPI-FIT® ADAPTERS**

Used to assist in the placement of an endotracheal tube during difficult airway access procedures.

- Initial access utilizing the Seldinger technique via the cricothyroid membrane permits retrograde (cephalad directed) placement of a wire guide exiting orally or nasally.
- Antegrade introduction of a hollow guiding catheter with distal side-ports and Rapi-Fit® Adapters allows patient oxygenation and facilitates placement of an endotracheal tube.

Supplied sterile in peel-open packages. Intended for one-time use.

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**CATHETER | WIRE GUIDE**

<table>
<thead>
<tr>
<th>SET ORDER NUMBER</th>
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<th>WIRE GUIDE</th>
<th>Use with Endotracheal Tube with Inner Diameter</th>
<th>Global Product Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-RETRO-6.0-50-38J-110</td>
<td>French 6.0</td>
<td>Length 50 cm</td>
<td>.038 inch Diameter</td>
<td>Length 110 cm</td>
</tr>
<tr>
<td>C-RETRO-11.0-70-38J-110</td>
<td>French 11.0</td>
<td>Length 70 cm</td>
<td>.038 inch Diameter</td>
<td>Length 110 cm</td>
</tr>
<tr>
<td>C-RETRO-14.0-70-38J-110-CAE</td>
<td>French 14.0</td>
<td>Length 70 cm</td>
<td>.038 inch Diameter</td>
<td>Length 110 cm</td>
</tr>
</tbody>
</table>

**Replacement Wire Guide**

**C-DOC-38-110-0-3-RETRO**

.038 inch Diameter | Length 110 cm | straight and 3 mm “J” | G07622
COOK AIRWAY EXCHANGE CATHETERS

Used for uncomplicated, atraumatic endotracheal tube exchange.

- Use of removable Rapi-Fit® Adapter permits use of ventilatory device if necessary during exchange procedure.
- Through-lumen design of catheter with distal sideports ensures adequate air flow.
- Blunt tip of catheter is atraumatic to internal structures.
- Centimeter marks facilitate accurate placement with shortened endotracheal tubes.

Supplied sterile in peel-open packages. Intended for one-time use.

<table>
<thead>
<tr>
<th>ORDER NUMBER</th>
<th>French Size</th>
<th>Length</th>
<th>Inner Diameter</th>
<th>Use in Replacement of Endotracheal Tube with Inner Diameter</th>
<th>Global Product Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-CAE-8.0-45</td>
<td>8.0</td>
<td>45 cm</td>
<td>1.6 mm</td>
<td>3 mm or larger</td>
<td>G07833</td>
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<tr>
<td>C-CAE-11.0-83</td>
<td>11.0</td>
<td>83 cm</td>
<td>2.3 mm</td>
<td>4 mm or larger</td>
<td>G06732</td>
</tr>
<tr>
<td>C-CAE-14.0-83</td>
<td>14.0</td>
<td>83 cm</td>
<td>3 mm</td>
<td>5 mm or larger</td>
<td>G07873</td>
</tr>
<tr>
<td>C-CAE-19.0-83</td>
<td>19.0</td>
<td>83 cm</td>
<td>3.4 mm</td>
<td>7 mm or larger</td>
<td>G05880</td>
</tr>
</tbody>
</table>

Patent Number 5,052,386
COOK AIRWAY EXCHANGE CATHETERS EF
EXTRA FIRM

Used for uncomplicated, atraumatic endotracheal tube exchange.
- Extra firm catheter facilitates exchange of double lumen tubes.
- Use of removable Rapi-Fit® Adapter permits use of ventilatory device if necessary during exchange procedure.
- Through-lumen design of catheter with distal sideports ensures adequate air flow.
- Blunt tip of catheter is atraumatic to internal structures.
- Centimeter marks facilitate accurate placement with shortened endotracheal tubes.

Supplied sterile in peel-open packages. Intended for one-time use.

<table>
<thead>
<tr>
<th>ORDER NUMBER</th>
<th>French Size</th>
<th>Length</th>
<th>Inner Diameter</th>
<th>Use in Replacement of Endotracheal Tube with Inner Diameter</th>
<th>Global Product Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-CAE-11.0-100-DLT-EF</td>
<td>11.0</td>
<td>100 cm</td>
<td>2.3 mm</td>
<td>4 mm or larger</td>
<td>G13348</td>
</tr>
<tr>
<td>C-CAE-14.0-100-DLT-EF</td>
<td>14.0</td>
<td>100 cm</td>
<td>3 mm</td>
<td>5 mm or larger</td>
<td>G13349</td>
</tr>
</tbody>
</table>

Patent Number 5,052,386
AINTREE INTUBATION CATHETER

Used for uncomplicated, atraumatic endotracheal tube exchange.

- Use of removable Rapi-Fit® Adapter permits use of ventilatory device if necessary during exchange procedure.
- Catheter has larger 4.7 mm lumen.
- Through-lumen design of catheter with distal sideports ensures adequate air flow.
- Blunt tip of catheter is atraumatic to internal structures.
- Centimeter marks facilitate accurate placement with shortened endotracheal tubes.

Supplied sterile in peel-open packages. Intended for one-time use.

ORDER NUMBER | French Size | Length | Inner Diameter | Use in Replacement of Endotracheal Tube with Inner Diameter | Global Product Number
---|---|---|---|---|---
C-CAE-19.0-56-AIC | 19.0 | 56 cm | 4.7 mm | 7 mm or larger | G10789

Patent Number 5,052,386
FROVA INTUBATING INTRODUCERS

Used to facilitate endotracheal intubation and to allow simple endotracheal tube exchange. Use of removable Rapi-Fit® Adapter permits use of ventilatory device if necessary during exchange procedure. Supplied sterile in peel-open packages. Intended for one-time use.

<table>
<thead>
<tr>
<th>ORDER NUMBER</th>
<th>French Size</th>
<th>Length</th>
<th>Inner Diameter</th>
<th>Use in Replacement of Endotracheal Tube with Inner Diameter</th>
<th>Global Product Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>With Stiffening Cannula</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-CAE-8.0-35-FII</td>
<td>8.0</td>
<td>35 cm</td>
<td>1.6 mm</td>
<td>3 mm or larger</td>
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<tr>
<td>C-CAE-14.0-65-FII</td>
<td>14.0</td>
<td>65 cm</td>
<td>3 mm</td>
<td>6 mm or larger</td>
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<tr>
<td>Without Stiffening Cannula</td>
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<td></td>
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<tr>
<td>C-CAE-14.0-65-FI</td>
<td>14.0</td>
<td>65 cm</td>
<td>3 mm</td>
<td>6 mm or larger</td>
<td>G13307</td>
</tr>
</tbody>
</table>

*Endotracheal tube not included.
Patent Number 5,052,386
ENK FIBEROPTIC ATOMIZER SET

Used for atomizing local anesthetics in connection with flexible fiberoptic intubation techniques. The Enk Fiberoptic Atomizer Set provides adequate topical anesthesia by atomizing small doses of local anesthetics through the working channel of the bronchoscope using flow oxygen.

- Reduced doses of anesthetics together with the atomizer effect enhance patient comfort.
- Repeated administration of local anesthetic solutions and flow oxygen ("spray as you go") keeps the front lens clear during bronchoscope advancement.

Supplied sterile in peel-open packages. Intended for one-time use.

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SET
ORDER NUMBER
C-EFNS-100

Global Product Number
G27286
MANAGEMENT OF THE DIFFICULT AIRWAY CD-ROM

Objectives:
• A practical and concise introduction to management of the difficult airway.

Topics Include:
• An interactive tutorial computer program with text, diagrams, pictures and video.
• Planning and recognition of many potential problems.
• Many routine/emergency management techniques.

Minimum System Requirements:
• 16MB RAM
• 640 x 480 pixel color display with 256 colors
• Sound card and speakers
• CD-ROM drive
• Microsoft Windows 95; Apple system 7.5 or higher
• Quicktime v2.5 or higher

ORDER NUMBER
C-CD-AIRWAY-1

FUNDAMENTALS OF AIRWAY MANAGEMENT TECHNIQUES
A COLOR ATLAS (A TWO VOLUME SET) BY VIJAYALAKSHI U. PATIL, M.D.

Objectives:
• The atlas is comprehensive in discussing the basic approach to airway management.
• The volumes describe how to perform each technique in detail and offers solutions to clinical problems and emergencies.

About Dr. Patil:
• Dr. Patil is the recipient of numerous awards for exhibits on airway management equipment, techniques and teaching models at national and international conferences.

Ordering Information:
• To order this book please visit the following website: www.lotuspublications.com.
USE OF RAPI-FIT® ADAPTER

TO ATTACH
Position on catheter and push white collar forward and lock into position.

1 For use of Rapi-Fit® Adapter with 15 mm connector or Rapi-Fit® Adapter with Luer lock connector.

TO REMOVE
Pull white collar back to release and remove from catheter.

REFERENCES


ACKNOWLEDGEMENTS

G. A. Arndt, M.D., Department of Anesthesiology, University of Wisconsin Medical School, Madison, Wisconsin.

R. J. Melker, M.D., Ph.D., Division of Emergency Medicine, Shands Hospital, University of Florida, Gainesville, Florida.

G. Frova, M.D., Department of Anaesthesia and Intensive Care, Spedali Civili, Brescia, Italy.

C. Ward, M.D., Scripps Green Hospital, La Jolla, California.

D. Enk, M.D., University of Münster, Münster, Germany.


VIDEOTAPES

C-VC-18 INSERTION OF THE MELKER EMERGENCY CRICOTHYROTOMY CATHETER
AUTHOR: R. Melker, Shands Hospital, University of Florida, Gainesville, Florida.

C-VC-43 COOK RETROGRADE INTUBATION SETS
AUTHOR: W. Rosenblatt, Yale-New Haven Hospital, Yale University, New Haven, Connecticut.

CD-ROM

C-MCD-TCS803 INSERTION OF THE MELKER EMERGENCY CRICOTHYROTOMY CATHETER
AUTHOR: R. Melker, Shands Hospital, University of Florida, Gainesville, Florida.

SLIDES

Instructional slide series on the use of products for the difficult airway.
Available upon request from Cook Critical Care.

POSTERS

Cook Airway Exchange Catheters (C-P-CAE998)
Melker Emergency Cricothyrotomy Catheter Sets (C-P-TCCS998)
Cook Retrograde Intubation Sets (C-P-RETRO998)
Seldinger Technique (C-P-ST899)
Available upon request from Cook Critical Care.