ARROW[°] | LMA[°] | *RUSCH*[°]



Emergency Medicine Pocket Guide

Intraosseous Access and Airway Management Products



leleflex



Rüsch[®] DispoLED[™] Single-Use Laryngoscope Handle

Rüsch® DispoLED™ Single-Use Fiber Optic Laryngoscope Handle

ITEM NUMBER	CIRCUMFERENCE	DIAMETER	LENGTH	WEIGHT	CASE
	(CM)	(CM)	(CM)	(G)	QTY
77700	9.42	2.7	12	88.0	20

Rüsch[®] TruLite Secure[™] Single-Use Blade and Handle Laryngoscope

ITEM NUMBER	DESCRIPTION	OVERALL LENGTH (MM)	DISTAL WIDTH (MM)	WEIGHT (G)		COLOR CODE	CASE QTY
MACINTOSH BLADES							
004671002	Mac 2	100	11.3	104		Blue	10
004671003	Mac 3	130	15.0	125		Yellow	10
004671004	Mac 4	155	15.0	135		Pink	10
MILLER BLADES							
004670010	Mill 00	67	11.8	97		Beige	10
004670000	Mill 0	78	11.8	98		Violet	10
004670001	Mill 1	103	11.8	104		Orange	10
004670002	Mill 2	155	13.7	125		Grey	10
004670003	Mill 3	195	13.7	137		Green	10
004670004	Mill 4	205	13.7	141		Lavender	10



LMA[®] Supreme[™] Airway

Insertion

Fully deflate the mask. Attach a syringe. Compress the distal tip of the mask with thumb and index finger. Apply

slight tension to the inflation line while removing all air until a vacuum is felt. Disconnect the syringe. Generously lubricate the posterior surface of the cuff and airway tube.



2 Place the patient's head in a neutral or slight "sniffing" position. Hold the LMA® Supreme™ Airway at the proximal end with the connector pointing downward to the chest and the tip of the distal end pointing toward the palate.

Diagnostic Tests



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After the LMA® Supreme[™] Airway is inserted, secured and inflated, diagnostic tests #1 and #2 should be performed to confirm the complete separation of the respiratory and alimentary tracts, or the LMA® Supreme[™] Airway oropharyngeal and esophageal seal, respectively. Diagnostic test #3 is optional. 3 Press the tip of the mask against the hard palate. While maintaining pressure against the palate, continue to rotate the mask inwards in a circular motion following the curvature of the hard and soft palate.



4 Continue until resistance is felt. The distal end of the mask should now be in contact with the upper esophageal sphincter. The device is now fully inserted.



Diagnostic Test #1: Fixation Tab Test

(Recommended to confirm correct size and esophageal seal)

After fixation, the taping tab should be positioned 1 to 2.5 cm from the upper lip. If the taping tab is more than 2.5 cm from the upper lip, this suggests the device may be too big. If the taping tab is less than 1 cm from the lip, this suggests the device may be too small. At no time should the taping tab be in contact with the



upper lip. Use clinical judgment to replace a mask that appears too big or small.

Diagnostic Test #2: Gel Test

(Recommended to confirm correct size and esophageal seal)

Apply ¼ inch of (viscous) water-soluble sterile lubricant to the proximal end of the drain tube and hand ventilate. The gel should remain covered across the top of the drain tube. This indicates that the esophageal seal has been achieved by ensuring the tip of the mask is against the upper esophageal sphincter. 5 While maintaining inward pressure, secure the mask into

position by taping cheek to cheek across the fixation tab. This should be done prior to inflation. Inflate with the minimum amount of air needed to achieve an effective seal. The recommended intracuff pressure should not exceed 60 cm H₂0.



Diagnostic Test #3: OG Tube Placement (Optional) (Inserting an OG tube allows the option to either suction or decompress the stomach. Successful passage of an OG tube is definitive confirmation of drain tube patency and tract separation.)

To facilitate gastric decompression and/or drainage, an OG tube can be placed into the drain tube of the LMA[®] Supreme[™] Airway and advanced into the stomach at any time during the procedure.

The OG tube should be well lubricated and passed slowly and carefully. Suction should not be performed until the gastric tube has reached the stomach. Suction should not be applied directly to the end of the drain tube. It is clinical preference to either remove the OG tube or leave it in place. If left in place, in the unlikely event of active or passive (non-suctioned) regurgitation, the drain tube would lose its patency. Sizing Guide

LMA® Supreme™ Airway						
ITEM NUMBER	MASK SIZE	PATIENT WEIGHT (KG)	SIZE OG TUBE (MM/FR)	CASE QTY		
175010	1	up to 5	6	10		
175015	1.5	5 - 10	6	10		
175020	2	10 - 20	10	10		
175025	2.5	20 - 30	10	10		
175030	3	30 - 50	14	10		
175040	4	50 - 70	14	10		
175050	5	70 - 100	14	10		
Plus Packs**						
178130**	3	30 - 50	14	10		
178140**	4	50 - 70	14	10		
178150**	5	70 - 100	14	10		

OG = orogastric tube

It is recommended that the cuff be inflated to a maximum of 60 cm H_20 intracuff pressure.

** Plus packs include LMA[®] Supreme[™] Airway, 60 mL syringe and lubricant

Alternative Sizing Method

Oral Airway Comparison

Size the oral airway according to the traditional sizing method (angle of the jaw to the corner of the mouth). Choose the appropriate size LMA[®] Supreme™ Airway, based on the following:¹

80 mm oral airway (#3) = Size 3 LMA[®] Supreme™ Airway

90 mm oral airway (#4) = Size 4 LMA[®] Supreme™ Airway

100 mm oral airway (#5) = Size 5 LMA[®] Supreme™ Airway



Arrow[®] EZ-IO[®] System

Overview

The Arrow® EZ-IO® Intraosseous Vascular Access System offers multiple sites for proven², fast³ and effective⁴ vascular access in emergent, urgent, or medically necessary cases.

Advantages of proximal humerus site include: • Flow rates average 6.3 L/hr^{5,6} • 3 seconds to heart with medication/fluids^{5,7} • Lower insertion & infusion pain^{5,7}

 Less medication required for pain management^{8-10*} DISTAL FEMUR
(Pediatrics only)

PROXIMAL TIBIA

DISTAL TIBIA

Do NOT use the powered EZ-IO® System in the sternum

Potential complications may include local or systemic infection, hematoma, extravasations, or other complications associated with percutaneous insertion of sterile devices.

24-Hour Clinical Support 888-413-3104

Arm Positioning Options

Using either method below, adduct elbow, rotate humerus internally.



the abdomen with arm secured tight to the body.



OR - Place and secure the arm tight against the body, rotate the hand so the palm is facing outward, thumb pointing down.

Landmarking

1 Place your palm on the patient's shoulder anteriorly.

- The area that feels like a "ball" under your palm is the general target area
- You should be able to feel this ball, even on obese patients, by pushing deeply



Landmarking

2 Place the ulnar aspect of one hand vertically over the axilla. Place the ulnar aspect of the opposite hand along the midline of the upper arm laterally.



3 Place your thumbs together over the arm.

 This identifies the vertical line of insertion on the proximal humerus



Palpate deeply as you climb up the humerus to the surgical neck.

 It will feel like a golf ball on a tee – the spot where the "ball" meets the "tee" is the surgical neck
The insertion site is on the most prominent aspect of the greater tubercle, 1 to 2 cm above the surgical neck.





1 Locate the insertion site. Growth Plate Proximal Proximal Distal Distal Femur Humerus Tibia Tibia (Pediatrics Only) 2 Clean insertion site per hospital protocol. Stabilize extremity. 3 Gently press needle through the skin until the tip touches the bone. The 5 mm black mark on the catheter must be visible prior to insertion. Squeeze the trigger, apply gentle steady pressure. 4 Stabilize hub and remove driver and stylet. Place stylet in an appropriate sharps container. Place the EZ-Stabilizer[®] Dressing over the catheter hub.

Insertion

Application

6 Attach primed EZ-Connect[®] Extension Set. Firmly secure to catheter hub with clamp open.

Remove adhesive from back of EZ-Stabilizer[®] Dressing and apply to skin.

8 Confirm placement. Flush the EZ-IO[®] Catheter with normal saline (5-10 mL for adults; 2-5 mL for infants/children). May require multiple flushes.

Prior to flush, consider intraosseous 2% preservativeand epinephrine-free lidocaine IO for patients responsive to pain – follow institutional protocols/policy.

9 Deliver medication and fluids as ordered. If adequate IO flow rates cannot be achieved with an infusion pump, a pressure bag should be considered.

Removal

Using a sterile luer-lock syringe as a handle, attach to hub of needle, maintain alignment and rotate clockwise while pulling straight up. Avoid rocking the needle on removal. Dispose of catheter with syringe attached in an approved sharps container.



IO Infusion Pain Management Using 2% Lidocaine Review lidocaine manufacturer's IFU prior to administration and observe recommended cautions/contraindications (preservative-free and epinephrine-free)

With the stabilizer in place, carefully attach syringe directly to IO catheter luer-lock hub, without extension set in place

INFANT/CHILD: initial dose 0.5mg/kg (NOT to exceed 40 mg) Slowly infuse initial dose of lidocaine over 120 seconds and allow to dwell for 60 seconds ADULT: initial dose 40 mg

Flush IO catheter with normal saline <u>ADULT</u> flush: 5-10 mL INFANT/CHILD flush: 2-5 mL

Consider Using Anesthetic for Patients Responsive to Pain



Ordering Information

Allow LZ IO System						
ITEM NUMBER	DESCRIPTION	PATIENT WEIGHT	QTY/ CASE			
9058	EZ-IO [®] Vascular Access Driver	NA	1			
9079P-VC-005	EZ-IO [®] 45 mm Needle Set [*] + EZ-Stabilizer [®] Dressing	≥40 kg	5			
9079-VC-005	EZ-IO [®] 45 mm Needle Set [*]	≥40 kg	5			
9001P-VC-005	EZ-10 [®] 25 mm Needle Set [*] + EZ-Stabilizer [®] Dressing	≥3 kg	5			
9001-VC-005	EZ-IO [®] 25 mm Needle Set [*]	≥3 kg	5			
9018P-VC-005	EZ-I0® 15 mm Needle Set' + EZ-Stabilizer® Dressing	3-39 kg	5			
9018-VC-005	EZ-IO [®] 15 mm Needle Set [*]	3-39 kg	5			
9066-VC-005	EZ-Stabilizer® Dressing	NA	5			

Arrow[®] EZ-IO[®] System

*Each Needle Set includes a 15 gauge sterile EZ-IO[®] Needle, EZ-Connect[®] Extension Set, Patient Wrist Band and NeedleVISE[®] Sharps Block



Download the EZ-IO® System App



References:

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- 5. Based on Adult Proximal Humerus data.
- Puga T, Montez D, Philbeck T, Davlantes C. Adequacy of Intraosseous Vascular Access Insertion Sites for High-Volume Fluid Infusion. *Crit Care Med* 2016; 44(12):143. Research sponsored by Teleflex Incorporated. Based on healthy volunteer study.
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- Philbeck TE, Miller LJ, Montez D, Puga T. Hurts so good; easing IO pain and pressure. JEMS. 2010;35(9):58-59. Research sponsored by Teleflex Incorporated.
- 9. Based on adult proximal tibia data.
- 10. Compared to EZ-IO® System tibial insertions.

*Based on Adult Proximal Humerus EZ-10® System insertion data. +The University of Washington Medical Center (Seattle, WA) +Outpatient Anesthesia Services (Seattle, WA) (presented at the 2008

Society for Airway Management Annual Meeting)

24-Hour Clinical Support 888-413-3104

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