**MAD Nasal**
Intranasal Mucosal Atomization Device*

The safe and painless way to deliver medications*

- The soft, conical plug on the tip is designed to form a seal with the nostril, preventing expulsion of fluid
- The spray atomizes drugs into a fine mist of particles 30 – 100 microns in size

**Rapid absorption**
- Atomized nasal medications allow rapid absorption across mucosal membranes into the bloodstream, avoiding first-pass metabolism*

**Patient comfort**
- Non-invasive and needle free

**Controlled administration**
- Simple delivery system — appropriate for both ALS and BLS
- Atomizes in any position
- No sterile technique required

**MAD Nasal™ Intranasal Mucosal Atomization Device Specifications**

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Product Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAD100</td>
<td>MAD Nasal™ Device with 3 mL Syringe</td>
<td>25</td>
</tr>
<tr>
<td>MAD110</td>
<td>MAD Nasal™ Device with 1 mL Syringe</td>
<td>25</td>
</tr>
<tr>
<td>MAD130</td>
<td>MAD Nasal™ Device with 1 mL Syringe and Vial Adapter</td>
<td>25</td>
</tr>
<tr>
<td>MAD140</td>
<td>MAD Nasal™ Device with 3 mL Syringe and Vial Adapter</td>
<td>25</td>
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<tr>
<td>MAD140DS</td>
<td>MAD Nasal™ Device with 3 mL Oral Syringe and Vial Adapter</td>
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<tr>
<td>MAD300</td>
<td>MAD Nasal™ Device without Syringe</td>
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</tbody>
</table>

Typical Particle Size: 30 – 100 microns

System Dead Space: MAD100/110: 0.16 mL
MAD130: 0.15 mL
MAD140: 0.16 mL
MAD300: 0.06 mL

Tip Diameter: 0.17 inches (4.3 mm)

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*For use with drugs approved for intranasal delivery

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**Using the MAD Nasal™ Device**

1. Remove and discard the green vial adapter cap.
2. Pierce the medication vial with the syringe vial adapter.
3. Aspirate the proper volume of medication required to treat the patient (including medication to account for the dead space in the device).
4. Remove (twist off) the vial adapter from the syringe and discard it in a sharps container.
5. Attach the MAD Nasal™ Device to the syringe via the luer lock connector.
6. Using the free hand to hold the occiput of the head stable, place the tip of the MAD Nasal™ Device snugly against the nostril aiming slightly up and outward (toward the top of the ear).
7. Briskly compress the syringe plunger to deliver half of the medication into the nostril.
8. Move the device over to the opposite nostril and, repeating steps 6 and 7, administer the remaining medication into the nostril if indicated.

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**Tips to Improve Success**

1. Minimize volume, maximize concentration
   - Use the appropriately concentrated drug
   - Follow drug manufacturer directions

2. Maximize total mucosal absorptive surface area
   - Atomize the drug (rather than drip it in) to cover broad surface area
   - Use BOTH nostrils to double the absorptive surface area
   - Aim slightly up and outwards to cover the turbinates and olfactory mucosa

3. Beware of abnormal mucosal characteristics
   - Mucus, blood and vasoconstrictors may reduce absorption
   - Suction nostrils or consider alternate drug delivery method in these situations

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See IFU for complete instructions

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To place an order, please contact Teleflex Customer Service at 1.866.246.6990 or cs@teleflex.com
MADgic®
Laryngo-Tracheal Mucosal Atomization Device

A versatile choice to administer medication*
- Consistent, fine atomized spray for direct coverage of nose, pharynx, larynx and trachea
- Long, narrow stylet is designed to be gently curved and flexible, allowing it to reach a patient’s vocal cords for targeted coverage
- Adapts to any luer-lock syringe
- Available in adult and pediatric sizes

Rapid absorption†
- Atomizes drugs into a fine mist
- Delivers particles at optimal size for rapid mucosal absorption†

Reduced cough
- In procedures where a cough upon emergence can cause adverse events, application of topical lidocaine on the laryngotracheal region has been shown to provide a smooth emergence from general anesthesia with reduced coughing‡

Patient comfort
Adequate topical anesthesia has been shown to:
- Enhance patient comfort†
- Facilitate patient compliance†

MADgic® Device Specifications
- Typical Particle Size: 30 – 100 microns
- System dead space: 0.13 mL MAD720 / 0.25 mL MAD600 / 0.19 mL MAD700
- Tip Diameter: 0.18 inches (4.6 mm)
- Applicator Length: 4.5 inches (11.4 cm) MAD720 / 8.5 inches (21.6 cm) MAD600 and MAD700

MADgic® Laryngo-Tracheal Mucosal Atomization Device
<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>PRODUCT DESCRIPTION</th>
<th>QUANTITY</th>
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<tbody>
<tr>
<td>MAD600</td>
<td>MADgic® Device with 3 mL Syringe</td>
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<tr>
<td>MAD700</td>
<td>MADgic® Device without 3 mL Syringe</td>
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<tr>
<td>MAD720</td>
<td>MADgic® Pediatric Device without 3 mL Syringe</td>
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*For use with drugs approved for intranasal and oropharyngeal delivery

Using the MADgic® Device
1. Atomize topical anesthetic into nose/mouth/throat using the MADgic® Device.
2. Bend the MADgic® stylet into a 90° curve, slip past tongue and atomize additional anesthetic into glottic area.

See IFU for complete instructions
MADomizer®
Bottle Atomizer®

A simple, effective delivery system for medications
• For use with topical anesthetics, vasoconstrictors, and other nasal or oral medications
• Consistent, fine atomized spray (approximately 30 – 100 microns)

Rapid absorption
• Atomized particles dispersed across a broad area of the nasal mucosa are the ideal size for rapid absorption of medication

Reduced risk of cross-contamination
Unique pump design and disposable applicator tip reduces the risk of patient cross-contamination that can occur with conventional atomizers
• Features a positive displacement pump with unidirectional flow

Using the MADomizer® Device

1. Compress the pump to spray solution into nostril or oropharyngeal cavity.
2. Place the disposable applicator (MAD510) tip in nostril or oropharyngeal cavity.
3. Discard applicator (MAD510) after each patient use.
4. Clean the exterior surface of the bottle and pump. Refer to the Instructions for Use for additional information.
5. Place protective cap on pump stem for storage.*

*Repeat steps 1–5 until all of the solution has been consumed or is no longer needed. The glass bottle and pump may not be reused. See Instructions for Use for single and multiple-patient component clarifications. Dispose of glass bottle and pump in accordance with federal, state and local regulations.

MADomizer® Device Specifications
- Typical Particle Size: 30 – 100 microns
- Spray Volume: 0.1 mL/spray
- Tip Diameter: 0.19 inches (4.82 mm)
- Applicator Length: 4.75 inches (12.10 cm) end of tip to end of thumb landing / 2.25 inches (5.70 cm) end of tip to end of clip
- Bottle Volume: 20 mL

MADomizer® Bottle Atomizer Device Ordering

<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>PRODUCT DESCRIPTION</th>
<th>QUANTITY</th>
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<tbody>
<tr>
<td>MAD510</td>
<td>MADomizer® Bottle Atomizer Device</td>
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<tr>
<td>MAD510</td>
<td>MADomizer® Disposable Tip</td>
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<tr>
<td>MAD515</td>
<td>MADomizer® Pull Tab Cap</td>
<td>20</td>
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<tr>
<td>MAD520</td>
<td>MADomizer® Replacement Bottle Clip</td>
<td>5</td>
</tr>
</tbody>
</table>

Disposable Tip
- Unique one-way check valve ensures unidirectional flow

MAD515 Pull Tab Cap
MAD500 Bottle Atomizer
MAD510 Disposable Tip

MAD520 Replacement Bottle Clip

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