

# INTRANASAL MEDICATION DELIVERY PROCEDURE

using the MAD<sup>®</sup> Nasal (Mucosal Atomization Device)

## Intranasal Medication Delivery

### MATERIALS

- 1 MAD<sup>®</sup> Nasal device with vial adapter and 3ml syringe (Cat. # MAD140)
- 2 Medication of appropriate concentration for intranasal medication delivery
  - » High concentration – Low volume



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### PROCEDURE

- 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 (an extra 0.1ml of medication should be drawn up to account for the dead space in the device).
- 4 Remove (twist off) the syringe from the vial adapter.
- 5 Attach the MAD<sup>®</sup> device to the syringe via the luer-lock connector.
- 6 Using the free hand to hold the crown of the head stable, place the tip of the MAD<sup>®</sup> 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 administer the remaining medication into that nostril.



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### KEY CONCEPTS

To improve Intranasal Medication Delivery success:

- 1 Minimize volume, maximize concentration
  - » 1/3 ml per nostril is ideal, 1 ml is maximum
  - » Use the appropriately concentrated drug
- 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
  - » Mucous, blood and vasoconstrictors reduce absorption
  - » Suction nostrils or consider alternate drug delivery method in these situations



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