

Needle-Free Intranasal DRUG DELIVERY

With **MAD™ Nasal**
MUCOSAL ATOMIZATION DEVICE



Safe
Painless
Fast Acting



Shouldn't you add this drug delivery option to your therapeutic armamentarium?

Fast, effective and painless treatment for:

- Acute pain
- Burns
- Fractures
- Trauma
- Sickle cell crisis
- Sedation and Anxiolysis
- Seizures
- Opiate Overdose

Reduce pain and bleeding associated with:

- Nasal and oral instrumentation
- Nasogastric tube placement

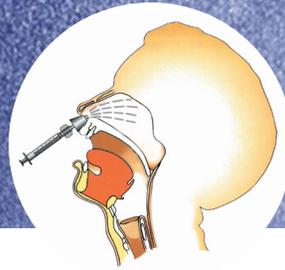


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Therapeutic Intranasal Drug Delivery



MAD™ Nasal
MUCOSAL ATOMIZATION DEVICE

SAFE & PAINLESS

- No needle – no shot – no pain
- No risk of needle stick

RAPIDLY EFFECTIVE

- Atomized nasal medications absorb directly into blood stream, avoiding first-pass metabolism
- Atomized nasal medications absorb directly into the brain and CSF via olfactory mucosa to nose-brain pathway
- Achieves medication levels comparable to injections

CONTROLLED ADMINISTRATION

- Exact dosing, exact volume
- Titratable to effect (repeat if needed)
- Atomizes in any position
- Atomized particles are optimal size for deposition across broad area of mucosa

MINIMAL RESOURCE UTILIZATION

- Nasal drug administration is quick and easy
- No sterile technique required
- Eliminate IV set-up time

EVIDENCED BASED

- Extensive literature supports the clinical effectiveness of medications delivered via the MAD™ Nasal

KEY FEATURES	NASAL	ORAL	I.M.	I.V.
High Serum Drug Levels	✓	NO	+/-	✓
Rapid Onset	✓	NO	+/-	✓
Titratable	✓	NO	NO	✓
Painless	✓	✓	NO	NO
Easy to Use	✓	✓	+/-	NO
Low Resource Utilization	✓	✓	+/-	NO
Eliminates Needle Stick Risk	✓	✓	NO	NO



MAD™ NASAL - ORDERING INFORMATION

Reorder Number	Quantity / Case	Quantity / Box	Description
MAD100	100	25	MAD™ Nasal Mucosal Atomization Device with luer lock connector and 3 mL syringe.
MAD140	100	25	MAD™ Nasal Mucosal Atomization Device with luer lock connector, vial adapter and 3 mL syringe.
MAD300	100	25	MAD™ Nasal Mucosal Atomization Device with luer lock connector. Syringe not included.

SPECIFICATIONS

TYPICAL PARTICLE SIZE	30-100 microns
SYSTEM DEAD SPACE	0.13 mL MAD100 / 0.07 mL MAD300
TIP DIAMETER	0.17 inches (4.3 mm)
APPLICATOR LENGTH (MAD300)	1.65 inches (4.2 cm)



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