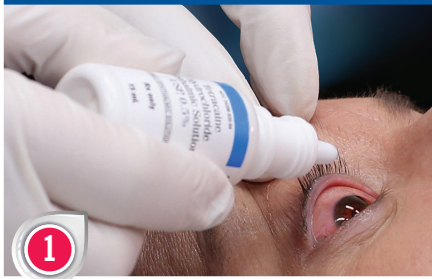


Morgan® Lens Instructional Chart – for emergency hands-free ocular irrigation

Instructions for using the Morgan Lens for continuous irrigation or delivery of medication to the cornea and conjunctiva.

The Morgan Lens, Morgan Lens Delivery Set, Medi-Duct and MorTan's packaging materials are not made with natural rubber latex



1

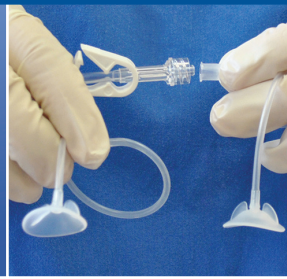
INSERTION

Instill topical ocular anesthetic, **if available**.



2

Peel open the sterile packaging and attach the Morgan Lens to the Morgan Lens Delivery Set (or a fluid administration set or syringe).



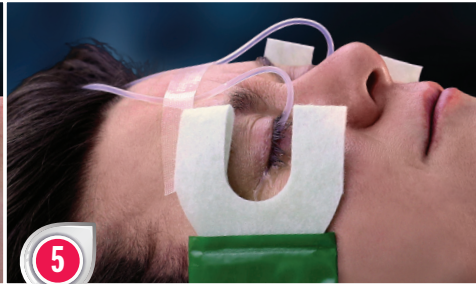
3

Using solution of choice*; **START A MINIMAL FLOW**. This allows Lens to "float" over cornea and sclera.



4

Have patient look down, insert Morgan Lens under upper lid.
Have patient look up, retract lower lid, drop Lens in place.



5

Adjust flow to the desired rate and absorb outflow with the Medi-Duct. Tape tubing to the patient's forehead to prevent accidental removal of the Lens. **DO NOT RUN DRY.**



6

REMOVAL – CONTINUE FLOW.

Have patient look up, retract lower lid – hold position and slide the Lens out. Once Lens is removed, **stop the flow of solution**.

Experts recommend continuous irrigation until the pH returns to normal – approximately 7.0-7.3. After 10 minutes, recheck pH and repeat process if necessary. When irrigation is complete, dispose of Lens properly.

Contraindications: Do not use if there is a protruding foreign body, a penetrating eye injury, or with a suspected or actual rupture of the globe.

Morgan Lens Uses

Morgan Lens Uses	Solution	Mode with Morgan Lens	Rate	Frequency
Acid burns or other ocular injury due to solvents, gasoline, detergents, etc.	Lactated Ringer's* Solution Recommended due to pH: LR 6.0 to 7.5 NS 4.5 to 7.0	Morgan Lens Delivery Set or I.V. set-up	500 ml rapid/free flow. Reassess and continue at slower rate.	Once. Repeat as necessary. Continuous until pH of cul-de-sac is returned to normal (approximately 7.0 to 7.3). Repeat as necessary.
Alkali burns		Morgan Lens Delivery Set or I.V. set-up	2000 ml rapid/free flow. Reassess. Continue at 50 ml/hour or 15 drops/minute.	
Non-embedded foreign bodies		Morgan Lens Delivery Set or I.V. set-up	500 ml rapid/free flow. Reassess and continue at slower rate.	Once. Repeat as necessary.
Foreign body sensation with no visible foreign body	20 cc sterile solution	20 cc syringe	Slowly without force.	Once. Repeat once if necessary.
Routine pre-operative	10 cc of preferred ocular antiseptic	10 cc syringe	Slowly without force.	Once.
Eyelid surgery (protecting the cornea during eyelid surgery)	Lactated Ringer's* Solution	Morgan Lens Delivery Set or I.V. set-up	4 drops/minute.	During entire procedure.
Severe infection	Lactated Ringer's* Solution with suitable antibiotic and steroid**	Morgan Lens Delivery Set or I.V. set-up	50 ml/hour or 15 drops/minute.	Continuous for 70 hours, then 10-hour intervals until marked improvement.

*MorTan recommends lactated Ringer's because its pH level of 6.0 to 7.5 is much closer to tears (approximately 7.1) than Normal Saline (4.5 to 7.0). Also, the lactate ion in lactated Ringer's exhibits a buffering capacity, returning the pH of either an acid or a base to neutral much more rapidly than a solution (such as saline) without any buffering capacity. **Use with antibiotics and steroids only when indicated.

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The Morgan Lens
MorTan Inc.

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