



Type of Model

Evaluation of corneal wound healing drugs and devices



Test System

Rabbit



Time

Up to 5 – 7 Days

Study Purpose

Evaluate efficacy and safety of pharmaceuticals and drug-eluting devices designed to treat corneal epithelial defect.

Deliverables

- ✓ Clinical Ophthalmic Exams (slit lamp biomicroscopy and ophthalmoscopy) using a modified McDonald-Shadduck scoring system
- ✓ Evaluation of wound healing using fluorescein staining images
- ✓ Digital photographs to bench mark healing process
- ✓ Analysis of wound areas to quantitatively measure wound healing
- ✓ Histopathological analysis

Model Description

- ✓ Epithelial defect created in the center of the cornea with alcohol
 - Epithelium removed using Gill corneal knife or #15 Bard-Parker blade
 - Steroid treatment to maintain chronic condition
- ✓ Epithelial defect created in the center of the cornea with NaOH (alkali burn)
- ✓ Removal of nictitating membrane (if applicable)

Benefits

- ✓ Trained scientists for consistent and accurate measurements
- ✓ Advanced ocular equipment and expertise in-house

Percent Change of Corneal Wound Healing

- ✓ Evaluation of fluorescein staining areas
- ✓ Treatment was efficacious in increasing the rate of corneal wound healing

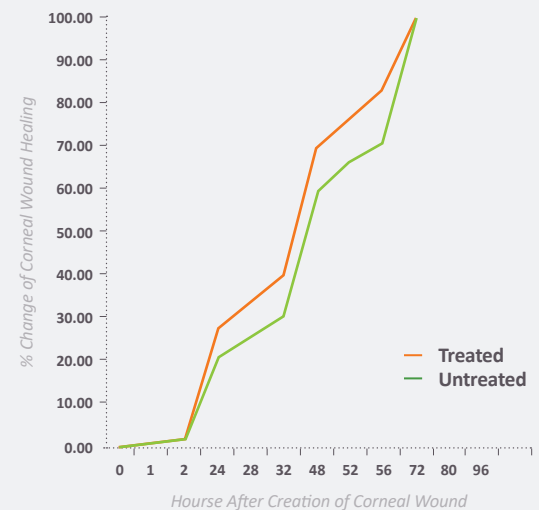


Figure 1: Percent Wound Healing (OU) against the placebo.
* $p < 0.05$ ** $p < 0.01$ *** $p < 0.001$



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