Study Purpose
Evaluate efficacy of pharmaceuticals and drug-eluting devices designed to reduce intraocular pressure.

Model Description
- Steroid induced hypertensive model
  - Model induction time: 2-3 weeks
- Normotensive Model
  - IOP reduction from baseline values
- IOP measurements (AM & PM) at baseline, during induction, and at customized time points
- Clinical Ophthalmic Examinations at customized time points

Deliverables
- Clinical ophthalmic examinations (slit lamp biomicroscopy and fluorescein imaging) using a modified McDonald-Shadduck scoring system
- IOP measurements
- Histopathological analysis

Species
- New Zealand White Rabbits
- Dutch Belted Rabbits
- Canines

Benefits
- Animals’ acclimation to IOP measurement procedures
- Trained scientists for consistent and accurate measurements
- Advanced ocular equipment and expertise in-house

Clinical Drug | Human Response | Rabbit Response
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β-Blockers: D-Timolol | >-5 mmHg (2 hrs) | -5 mmHg (2 hrs)
Topical CAIs: Dorzolamide | -5 mmHg | -4 to -6 mmHg
Prostaglandins: Latanoprost | -3 mmHg | -5 mmHg
Selective α2, Adrenergic Agonists: Brimonidine | -6 mmHg | -6 mmHg