

Selecting an NSAID for Cataract Surgery: What Really Matters

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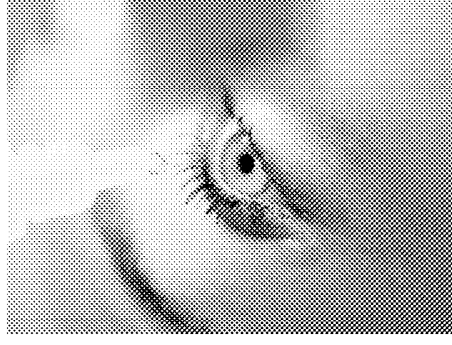
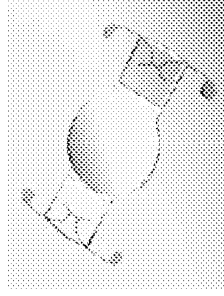
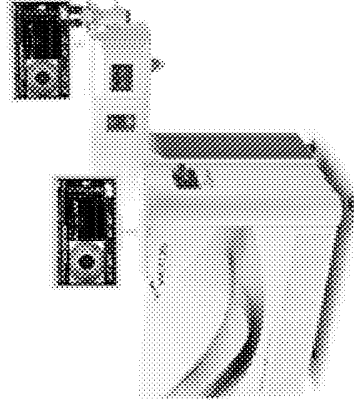
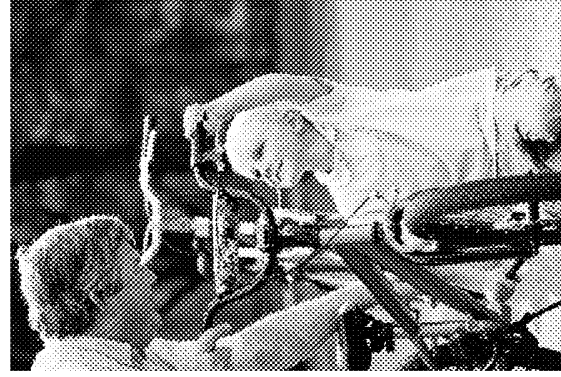
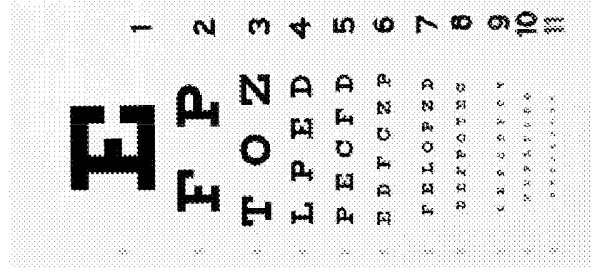
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SENJU EXHIBIT 2221
LUPIN v. SENJU
IPR2015-01097

Disclosures

Cataract Surgery: The Pursuit of Perfection

- Goal of cataract surgery is, “To restore vision and to improve quality of life, with minimal adverse effects of treatment”¹



Vision²

Quality of life²

Devices, instruments,
and lenses

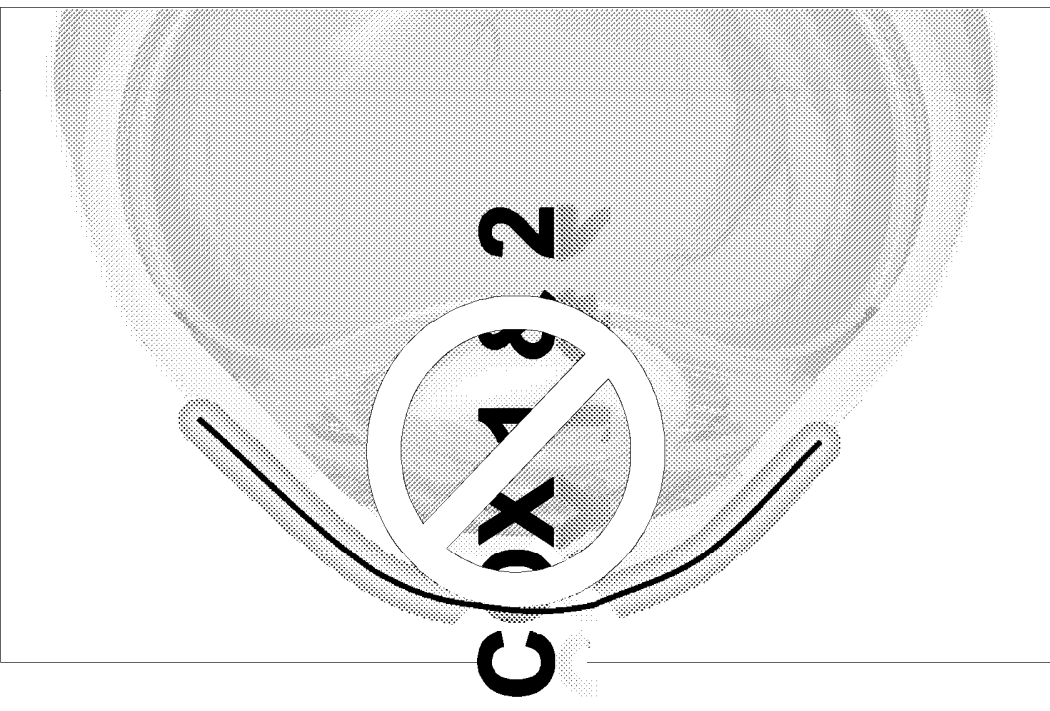
Medications

1. Allen D. *Clin Evidence*. 2008; 8(708):1-14.
2. www.aces-abes.org/guidelines_for_cataract_practice.htm#chapter7
3. Meekins LC, Afshari NA. *Curr Opin Ophthalmol*. 2012, 23:1-2

NSAIDs Are an Important Tool for Cataract Surgery

An effective topical ophthalmic NSAID should:

- Penetrate efficiently to allow rapid and sustained therapeutic levels
- Possess high COX inhibition for sustained control of inflammation and pain
- Reduce the risks typical of topical ophthalmic NSAIDs



Various Approaches Used to Improve Drug Delivery of NSAIDs

Potency	Penetration
Halogenation¹	Halogenation¹ <ul style="list-style-type: none"> • Increases lipophilicity
	Formulation pH^{1,2} <ul style="list-style-type: none"> • Affects lipophilicity
	Prodrug³ <ul style="list-style-type: none"> • Improved penetration • Requires enzymatic conversion to active form
	Viscosity agents <ul style="list-style-type: none"> • Carboxymethylcellulose sodium^{2,3} • Guar gum³

1. PROLENSA [package insert]. Tampa, FL: Bausch & Lomb Incorporated; 2013.
 2. ACUVAIL [package insert]. Irvine, CA: Allergan; 2011.
 3. ILEVRO [package insert]. Fort Worth, TX: Alcon; 2013.

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