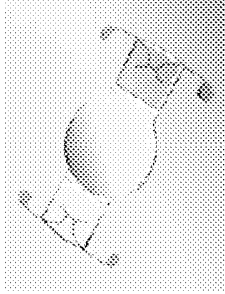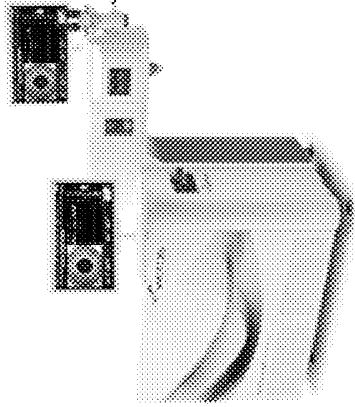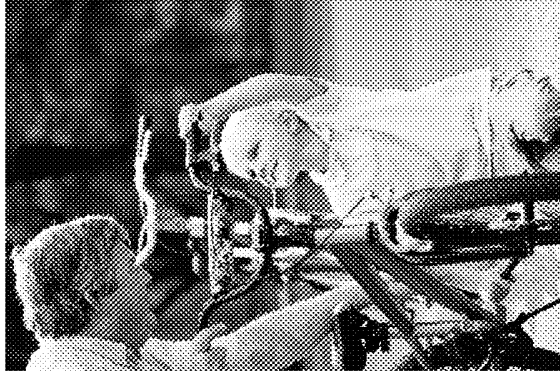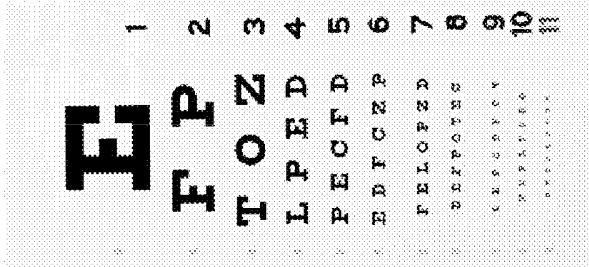# Selecting an NSAID for Cataract Surgery: What Really Matters

Mitchell A. Jackson, MD

Founder and Director, Jacksoneye

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]

Medications

Devices, instruments, and lenses

Quality of life[2]

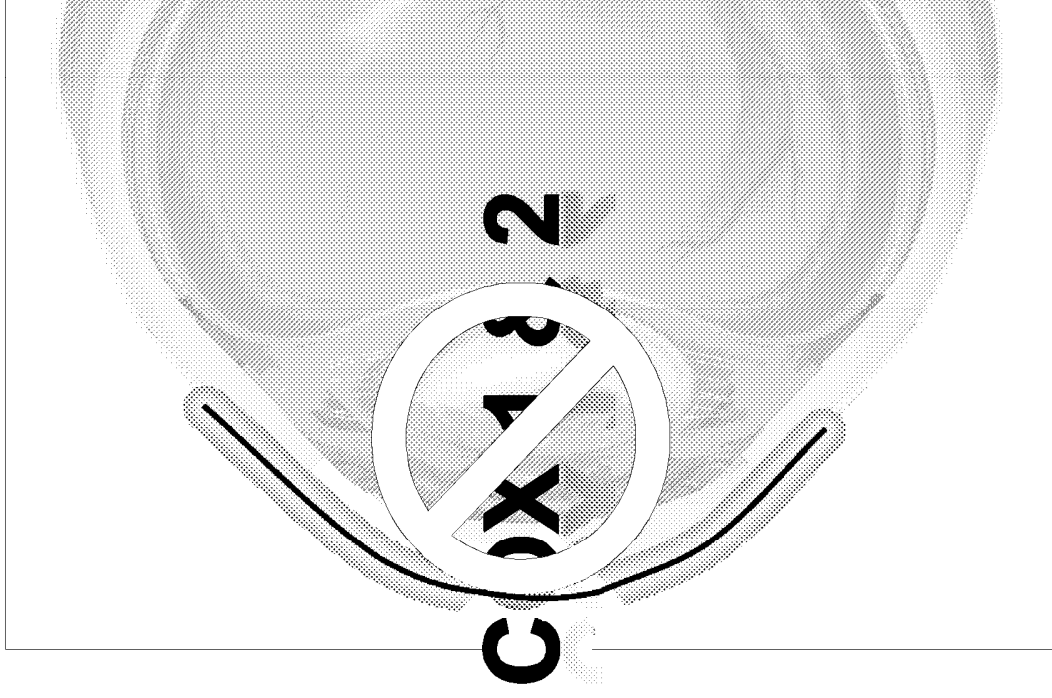Vision[2]

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

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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

COX 1 & 2

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Various Approaches Used to Improve Drug Delivery of NSAIDs

Potency	Penetration
Halogenation[1]	**Halogenation**[1] • Increases lipophilicity **Formulation pH**[1,2] • Affects lipophilicity **Prodrug**[3] • Improved penetration • Requires enzymatic conversion to active form **Viscosity agents** • Carboxymethylcellulose sodium[2,3] • Guar gum[3]

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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