



### Check intraocular pressure up to several months after intravitreal injection of triamcinolone acetonide

#### ***The Science behind the Tip***

Intravitreal injection of triamcinolone acetonide (TA) is a relatively novel component of treatment of intraocular edematous or neovascular disease<sup>1</sup>. After injection of about 20 to 25 mg TA intraocular pressure (IOP) readings higher than 21, 30, 35 and 40 mm Hg were measured in about 41, 11, 6, and 2% of patients, respectively<sup>2-5</sup>. This IOP elevation could be treated with glaucoma medications in all but 1% of the eyes, for which filtering surgery became necessary.

IOP started to rise 1 week after injection, and returned to baseline values only after about 8 to 9 months! Younger age was significantly ( $p=0.01$ ) associated with TA-induced IOP increase<sup>4</sup>. There was no association with gender, refractive error, preoperative visual acuity, diabetes mellitus, and preoperative diagnosis of glaucoma. It has been reported that intravitreal TA-related cataracts are associated with TA-induced IOP elevation<sup>5</sup>.

If TA was re-injected, the IOP change was similar to the one after the first injection without signs of marked tachyphylaxis<sup>1,4</sup>.

#### ***References***

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