**A CASE OF BILATERAL SCLERITIS AFTER ZOLEDRONATE INFUSION**

Lisa Kiu Law, M.D.\*

\*New York Eye and Ear Infirmary of Mount Sinai, New York, NY

Contact: lisaklaw@gmail.com, (212) 227-1280

**INTRODUCTION:** Bisphosponates are a commonly-used class of medications to prevent bone density loss. As such, they are often used in the treatment of osteoporosis, Paget’s disease, and similar bone diseases. Intravenous bisphosphonate regimens, such as zoledronate (zoledronic acid), have the benefit of less-frequent dosing compared to oral agents, and can be dosed annually. We report a case of 68 year-old male who developed severe bilateral ocular inflammation, including scleritis, anterior uveitis with unilateral fibrinous hypopyon and corneal decompensation, 4 days after his first zoledronate infusion.

**CASE SUMMARY:** A 68 year old Chinese male with hypercalcemia of malignancy presented with bilateral redness, photophobia, and blurred vision 4 days after his first Zoledronic acid (5mg/100ml) infusion. He had no known drug allergies and took no ocular medications. Best-corrected visual acuity was 20/25 in right eye and 20/80 in the left. The extraocular movements were normal but painful. Intraocular pressures were 14 mm Hg bilaterally. Both globes were noted to be tender to touch. There was 3+ conjunctival hyperemia bilaterally, which only minimally blanched with phenylephrine 2.5% instillation. Slit lamp exam was positive for anterior cell (1+ in the right, 2+ in the left), with trace corneal descemet’s folds and a layered 0.5mm fibrinous hypopyon in the left eye. There was also iris synechiae to the pupil from 12 o’clock to 6 o’clock in the left eye. Moderate cataracts were noted bilaterally. The optic nerve was cupped, 0.8, bilaterally. The rest of the posterior exam was normal. The patient was diagnosed with zoledronate-induced scleritis and anterior uveitis and treated with a combination of systemic and topical corticosteroids, as well as topical nonsteroidal drops. The patient’s eyes improved significantly, and returned back to baseline after 12 days of treatment.

**DISCUSSION:** Osteoporosis is a commonly diagnosed condition in our elderly Asian population. It is prudent for physicians to be aware of the potential ocular complications of bisphosphonate treatment and to refer to an ophthalmologist at the first sign of ocular inflammation.

**CONTENT CATEGORY:** case report

**KEYWORDS**: *zolendronate, uveitis, scleritis*