

Mean 1-Year Visual Acuity Change in Retinal Vein Occlusion-Related Macular Edema Correlates with Anti-VEGF Treatment Intensity: An Analysis of 12,214 Eyes

Abstract Id: 30063640

Topic: RETINA, VITREOUS

Case Series Medical Retinal Diseases

Abstract Body:

Purpose: To describe VA outcomes of anti-VEGF therapy for RVO-related ME.

Methods: Treatment-naïve RVO patients with ME who underwent anti-VEGF injections between 2013 and 2019 were retrospectively assessed, using the Vestrum Health Retina Database. **Results:** In 6,914 eyes with BRVO-related ME, after a mean of 7.4 anti-VEGF injections at 1 year, mean VA gain was 8.1 letters (95% CI +7.55 to +8.57, P < 0.001). In 5,300 eyes with CRVO-related ME, after a mean of 7.6 anti-VEGF injections at 1 year, mean VA gain was 7.1 letters (95% CI +6.31 to +7.95; P < 0.001). These VA gains compare favorably to those in neovascular AMD (49,485 eyes; 7.3 injections; +1.0 letter at 1 year; P < 0.001) and DME (28,658 eyes; 6.4 injections; +4.2 letters at 1 year; P < 0.001). For RVO-related ME, at 1 year, there was a linear relationship between mean letters gained and mean number of injections. Patient eyes with baseline VA of 20/40 or better tended to lose VA at 1 year.

Conclusion: In practice, RVO-related ME patients experience greater 1-year VA gain than patients with AMD and DME, but exhibit a larger gap in VA gain when compared to respective randomized trials.

Course Format: Paper/Poster

Financial Interest: No

Industry Employed: Yes

Study Design: Noncomparative Case Series

Approved by IRB: No, Not Required

Précis: In practice, RVO-related macular edema patients experience greater 1-

year VA gain than patients with AMD and DME, but exhibit a larger gap in VA gain when compared to respective randomized trials. Mean change in VA correlates with treatment intensity at 1 year. Patients with better VA at presentation tend to be particularly vulnerable to vision

loss.

Background As the healthcare system shifts from a volume-based to a value-based Statement: one, real-world outcomes become increasingly important. However,

there have been few large real world studies of anti-VEGF therapy for

retinal vein occlusion-related macular edema.

Authors

Thomas A Ciulla MD

John S Pollack MD
David F Williams MD

Other Information

Is the Presenting Author of this submission in a residency program (formal training) or subspecialty training for ophthalmology?

No

I verify that the abstract follows submission policy regarding copyright as described in the submission guidelines.

Yes

I understand that submission of an abstract constitutes a commitment to present if scheduled for a live presentation. If my abstract is accepted as a paper, I will be required to prepare a condensed manuscript four weeks before the annual meeting. If my abstract is accepted as a poster, I will be required to submit an electronic poster prior to the annual meeting. There will be no physical posters. Yes