High-Dose Aflibercept Rationale & Clinical Studies

Z T I I I I A

Consultants of Houston

David M Brown MD Houston, TEXAS USA

Take Home Messages

Higher Dose Anti-VEGF improves anatomy /VA in historical RCTs

Aflibercept (Like most anti-VEGFs) has a linear PK curve

8mg Aflibercept should provide two ½-lives more duration

 Variability in vitreous half-life makes standardized dosing/ clinical trial design challenging.

Disclosures

Consultant / Clinical Trial Support from Regeneron & Competitors



The NEW ENGLAND JOURNAL of MEDICINE

Ranibizumab for Neovascular Age-Related Macular Degeneration

Philip J. Rosenfeld, M.D., Ph.D., David M. Brown, M.D., Jeffrey S. Heier, M.D., David S. Boyer, M.D., Peter K. Kaiser, M.D., Carol Y. Chung, Ph.D., and Robert Y. Kim, M.D., for the MARINA Study Group*

ABSTRACT

In this multicenter, Jyeas, double-blind, sham-controlled study, we madatiny assigned patters with apportuned musclar degeneration with either minimaly classic.

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We consided 726 parients in the study. At 12 morths, 94.5% of the group given 0.3 mg of razulbizustub and 94.6% of those given 0.5 mg loss fewer than 15 stenss, as contrapted with 62.7% of parients receiving aban injections. (Pooling Off to oth competit, soods, Visual acuty improved by 15 or nove letters in 54.8% of the 0.3-pr ggroup; as confident which the following and 83.8% of the 0.3-pr ggroup; as compared with 550% of the data-trepted with 550% of the 48-trepted with 550% of the 48-trepted with 550% of the 48-trepted with 550% of the 68-trepted with 5 group (Ps0.001 for both doses). Mean increases in visual acuity were 6.5 letters in the wings) was 2006,051.045-31.

0.3-ong group and 72 determ in the 0.3-ong group, as compared with a decrease of 10.4.

**Order C 100 theorems white home letters in the shann-injection group (Ps0.005) for both comparisons). The benefit in visual aculty was maintained at 24 months. During 24 months, presumed endoohthalmitis was identified in five patients (1.0%) and serious weltis in six patients (1.3%) given ranibizumab.

Intravitreal administration of ranibizumab for 2 years prevented vision loss and improved mean visual acuity, with low rates of serious adverse events, in patients with minimally classic or occult (with no classic lesions) choroidal neovascularization secondary to age-related macular degeneration. (ClinicalTrials.gov number,

Razibizunab — a recombinane, humanized, nonociosal antibody Fab that netlines all active froms of vascular endothelial growth factor A — has been evaluated
for the treatment of neovascular age-related macular degeneration.

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THE REW ENGLAND IOURNAL OF MADICINE

Ranibizumab versus Verteporfin for Neovascular Age-Related Macular Degeneration

David M. Brown, M.D., Peter K. Kalser, M.D., Mark Michels, M.D., Gisele Soubrane, M.D., Jeffrey S., Heier, M.D., Robert Y. Kim, M.D., Judy P. Sp. Ph.D., and Sosan Schneider, M.D., Sy the ANCHOR Study Group*

We compared ranibinumsh - a recombinant, humanized, monoclonal antibody was visuominal Commissis. Method: Wir computed transformath — a recombinant, humanized, monoclottal antibody it Hospial. However, (N.M. E.; the Cole. Each that neutralizes all active forms of vascular endothelial growth factor A — with photodynamic therapy with verteporfin in the treatment of predominantly classic photodynamic Decker Christophalan, photodynamic therapy with verteporfin in the inchant Dakes, 1, 50 M, 16 m representation.

CA During the first year of this 2-year, multionner, double-blind study, we randomly SOCS, 1955, 551, defense reprint assume the following partners in a 1.011 ratio to receive monthly interviewed injections of numbers to the two victorium of the sources, 650 favors 55, 1957, 252, 1958, 1959, 19 patients lowing fewer than 15 letters from baseline visual armity at 12 months.

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ADMINISTRATION OF THE PRODUCT OF THE PRODU group (2x0.00) for each companisors. Among 140 patients treated with 0.5 mg of ranibizomah, presumed endophthalmitis occurred in 2 patients (1,4%) and seriou

Ranibizzenab was superior to verteporfin as intravitetal excatment of predominantly classic necessicalist use triated murular desengration, with low rates of serious octular advene events. Treatment improved visual analty on average at 1 year. ClinicalTrials, gos member. NCT00001594.)

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The NEW ENGLAND JOURNAL of MEDICINE

Ranibizumab and Bevacizumab for Neovascular Age-Related Macular Degeneration

Collicial trials have established the efficacy of sanibianuab for the treatment of sea-ture of the control of

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Bevacizumab administered monthly was equivalent to ranibizumab administered. *The members of the C ornatellumid administrativi unconsty was equivated; to ranisoratulard administrated as martelly, with 8.0 and 8.5 letters gained, respectively. Sevantisumab and ministered as inceded was equivalent to ranishusumab as needed, with 5.0 and 6.8 letters gained, respectively. Ranisoratular constitution of the sevential constitution of t though the comparison between bevacizumab as needed and monthly bevacizumab
was inconclusive. The mean decrease in central retinal thickness was greater in the ranibizumab-monthly group (196 µm) than in the other groups (152 to 168 µm).

P=0.03 by analysis of variance). Rates of death, myocardial infarction, and stroke

Crystel Q 202 Meaning Maked Dates. were similar for patients receiving either bevacizumab or ranibizumab (P>0.20). The proportion of patients with serious systemic adverse events (primarily hospitaliza tions) was higher with bevacizumab than with ranibizumab (24.1% vs. 19.0%: risk ratio, 1.29; 95% confidence interval, 1.01 to 1.66), with excess events broadly distributed in disease categories not identified in previous studies as areas of concern.

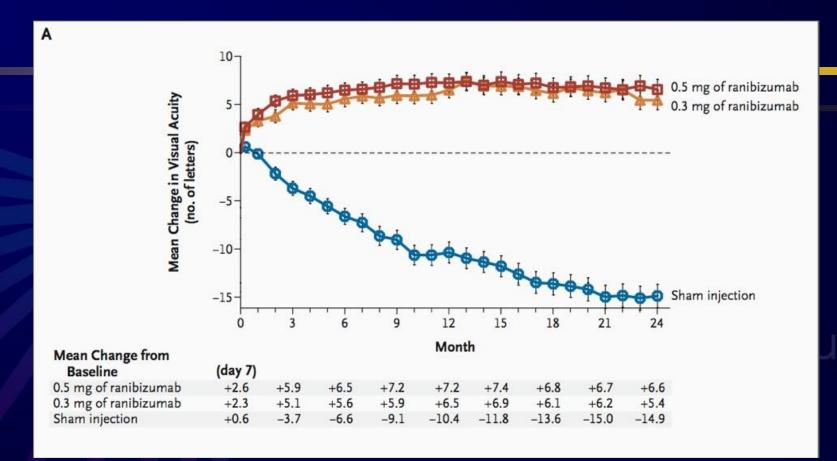
At 1 year, bevacizumab and ranibizumab had equivalent effects on visual acuity when administered according to the same schedule. Ranibizumab given as needed with monthly evaluation had effects on vision that were equivalent to those of ranibizumab administered monthly. Differences in rates of serious adverse events require further study. (Funded by the National Eye Institute; ClinicalTrials.gov number,







MARINA

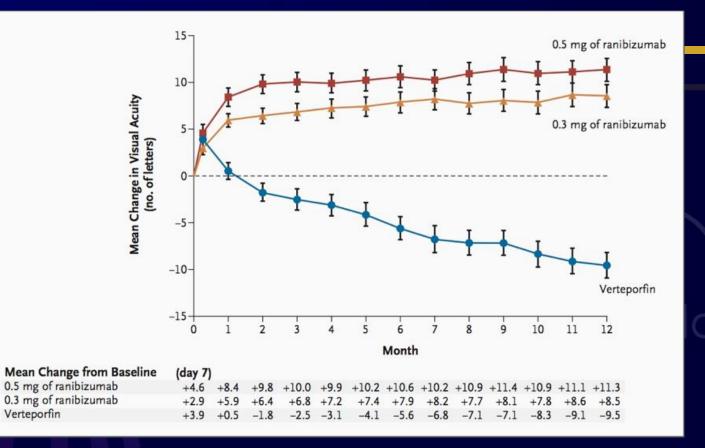




NEJM, Rosenfeld et al 2006



ANCHOR





Verteporfin

NEJM, Brown et al 2006



ANCHOR

Brown et al · Ranibizumab vs PDT for Neovascular AMD

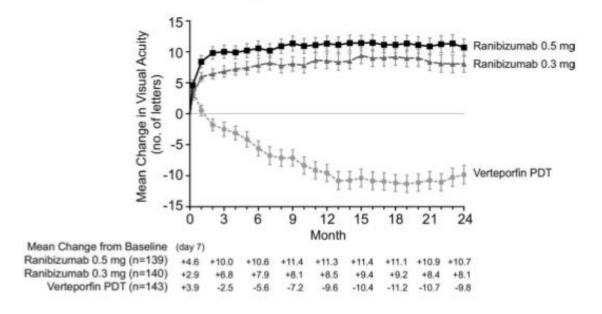


Figure 1. Mean change from baseline visual acuity (VA) score (letters) over time. Vertical bars represent ±1 standard error of the mean. The mean change at some visits in the first year differed slightly from those previously reported⁶ because the present analysis is based on the final data. P<0.001 for all comparisons versus verteporfin photodynamic therapy (PDT) at each month. Pairwise analysis of variance models adjusting for VA score at day 0 (<45 letters vs. ≥45 letters) were used to analyze mean VA change from baseline at each monthly assessment. The last-observation-carried-forward method was used to impute missing data. All tests were 2-sided.

Ophthalmology, Brown et al 2009



CATT FLUID on OCT @ 1 Year Ranibizumab = 53.2% Bevacizumab = 70.9%

Table 2. Outcome Measures at 1 Year.*					
Outcome	Ranibizumab Monthly (N = 284)	Bevacizumab Monthly (N = 265)	Ranibizumab as Needed (N=285)	Bevacizumab as Needed (N = 271)	P Value†
Fluid on optical coherence tomography — no. (%)					
Absent	124 (42.7)	60 (26.0)	68 (23.9)	52 (19.2)	<0.001
Present	151 (53.2)	188 (70.9)	203 (71.2)	214 (79.0)	

The NEW ENGLAND JOURNAL of MEDICINE

nibizumab and Bevacizumab for Neovascular Age-Related Macular Degeneration

NEJM, Martin et al 2011





RECALCITRANT AMD

"Incomplete Responders"

- Persistent OCT or FFA activity on monthly therapy
 - 50 Patients followed for 24 months
- Patients randomized to q4w vs q6w f/u with "Capped" PRN therapy



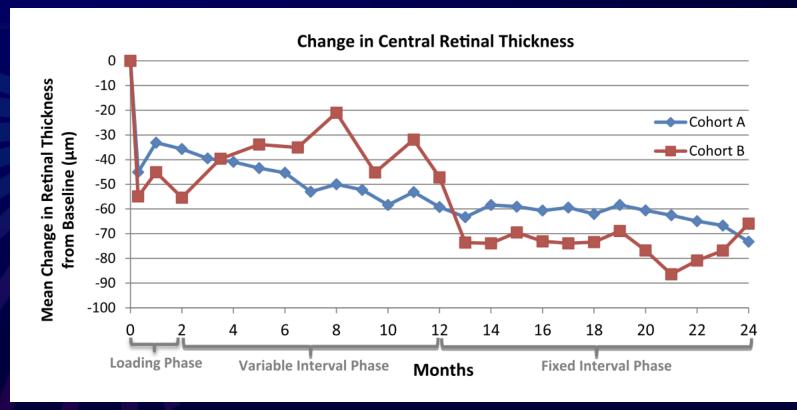
RECALCITRANT AMD

"Incomplete Responders"

- Sex = 25 male, 25 female
 - Mean age = 77.3
- Prior injections = 26.8 (mean) Houston
- Prior injections past year = 10.5 (mean)

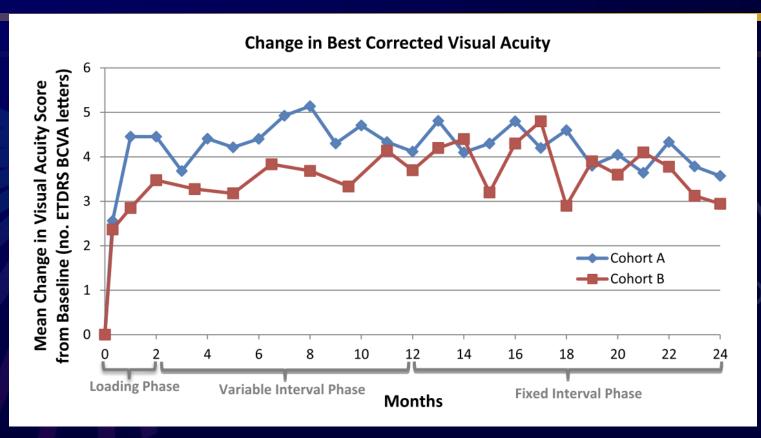


SAVE 24 Month Anatomy





SAVE 24 Month Vision





Treatment Burden Reduction

- Q6 Week arm had loss of Anatomy and VA
- 11.2 / 12.0 PRN injections required year 2



CONCLUSIONS

Will "Incomplete Responders" Responders with a higher dose?

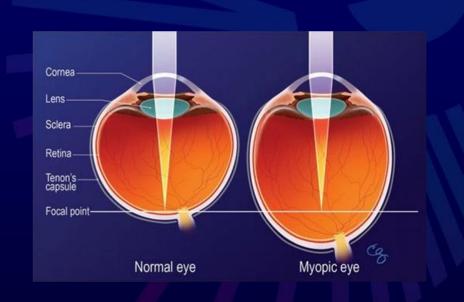


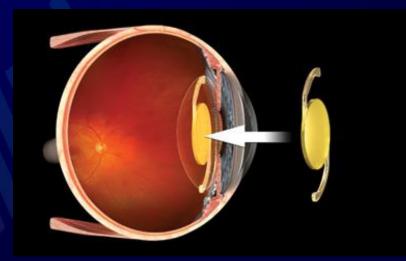
CONCLUSIONS

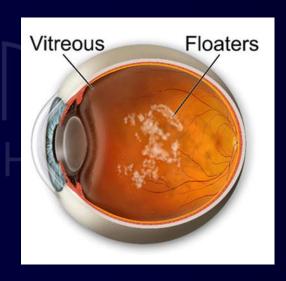




What Determines Drug Clearance?





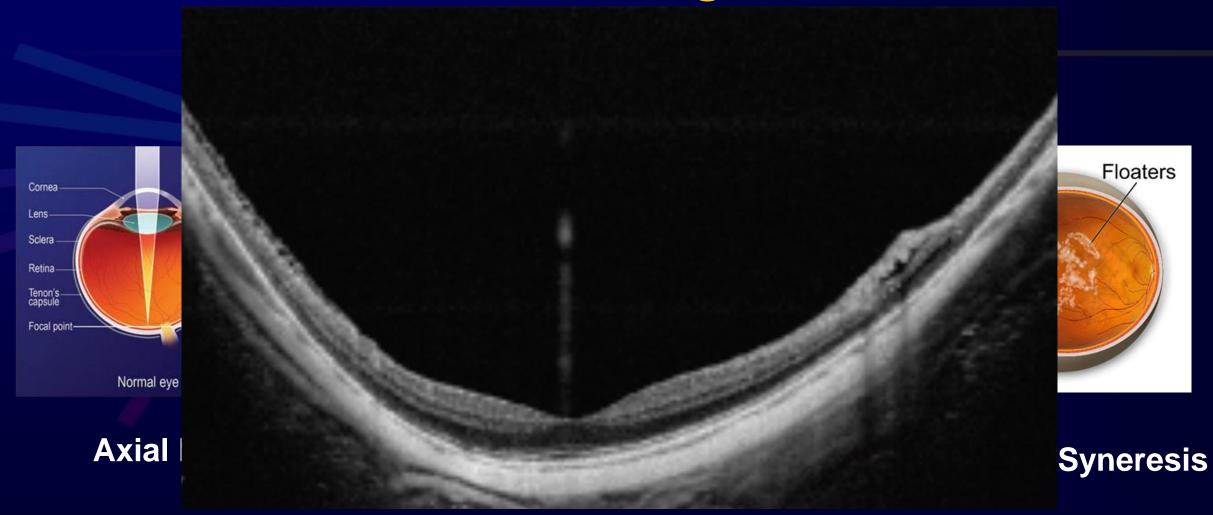


Axial Eye Length

Psuedophakia

Vitreous Syneresis

What Determines Drug Clearance?



SAVE (Super-dose Anti-VE) Ranibizumab for Recalcitra Age-Related Macular Deger

Charles C. Wykoff, MD, PhD; David M. Brown, MD; Eric Croft, BA; Angeline Mariani, BA; Tien P. Wong, MD; SA

OBJECTIVES: To assess durability of visual and anatomic gains with 2.0 mg ranibizumab in recalcitrant neovascular age-related macular degeneration (AMM)

METHODS: Phase I-II trial of 88 patients with recalcitrant neovascular AMD treated as needed every 4 (cohort A) or 6 weeks (cohort B) following three monthly doses. ETDRS refraction and spectral-domain OCT—guided as-needed re-treatments.

RESULTS: Seventy-nine patients completed the 12-month endoptical and were given 1.16 (cohort A), and 8.6 (cohort II) mean treatments. Mean best corrected visual acuity gains of 4.1 letters following three monthly does were sustained for 12 months for both cohorts. Austromic improvements were sustained for 12 months for cohort A, but not for cohort IS; cohort B demonstrated a gradual increase in mean central restand hitchesses [P-.03].

CONCLUSION: Visual and anatomic gains achieved with 2.0 mg ranibizumab in recalcitrant neovascular AMD were sustained for 1 year with monthly treatment. In comparison, anatomic gains were diminished with less than monthly treatment.

[Ophthalmic Surg Lasers Imaging Retina. 2013;44:121-126]



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The authors received a reaserth great from Generatesh. The hundring organization
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March/April 2013 - Vol. 44, No. 2

COMPARISON OF SPECTRAL-DOMAIN AND TIME-DOMAIN OPTICAL COHEREN(TOMOGRAPHY IN THE DETECTION OF NEOVASCULAR AGE-RELATED MACULAL DEGENERATION ACTIVITY

JAMES C. MAJOR, JR, MD, PrID, CHARLES C. WYKOFF, MD, PrID, ANGELINE F. MARIANI, BA, ERIC CHEN, MD, DANIEL E. CROFT, BA, DAVID M. BROWN, MD

Purpose: To compare the sensitivity of commonly used time-domain (TD-OCT) and spectral-domain optical otherwise tempography platforms and sourning modalities in the management of neovacular age-related macular degeneration in a population with a high previous country of equations of sensitivities.

Methods: Ray consecutive patients within the prospective SAME (Super-close Arti-Massachian Endothelia) growth Body http://de.him.ankpc.ed the unity of 2.0 mg invalvetes anabbums to the treatment of mechanism neversorism age-evision manager degeneration, were enrolled in a companion that of 3 different proficel coherence tempgraphy (COT) platforms. Stratus TD-OCT matter acom Carl Zeles Medites, Inc) was companion with 3 Heidelberg Spectrals Heidelberg Heidelberg Spectrals and evidence profit in relating reads of the strategy of the companion of the spectra mediting (Article Medites) and the spectra of the strategy of the matter, or the spectra of the strategy of the matter, or the spectra of the spectra

Reseable: Using one principle platform and acquisition setting, evidence of exactifive decisions activity was possibly videntified in 180 of 191 visits (45.5%), and submitted in 180 of 191 visits (45.5%), and submitted fitted in 180 of 191 visits (45.5%), and submitted fitted visits (45.5%), high submitted fitted visits (45.5%). The control of 191 visits of 191 vi

Conclusion: In this movemular age-related macular dependent on patient population patient domain coular conference tempopularly was a superior diagnostic for which coular conference tempopular dependent domain patient and conquisition eating identifying algoriticantly more exclusive disease activity. The was opported domain patients glattoms (class and Separatella) were not exclusive disease activity. The was opported domain patients glattoms (class and Separatella) were not used. No description of the conference of the conferen

RETINA 0:1-7, 2013

Age-related macular degeneration (AMD) is the leading cause of severe vision loss and b lindness in elderly patients in the United States. The last two decades have witnessed incredible advances in our understanding of and ability to treat neovascular.

AMD. These advances have stemmed from major inno vations: the invention and clinical app tion of optical coherence to mography (OCT) and development of anti-vascular endothelial growth tor pharmaceuticals.

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Two Year SAVE Outcomes: 2.0 mg Ranibizumab for Recalcitrant Neovascular AMD

The Super-dose Anti-VEGF (SAVE) trial assessed the el 2.0 mg ranibizumah (0.05 ml), a 4-fold higher dose than to dose approved by the US Food and Drug Administratio management of recalcitrant neovascular age-related degeneration (AMD) in 88 patients. ^{1,2} Primary outcome the 3-month, fixed-interval dosing period were reported to the control of the dose of the dos

Recalcitrant fluid despite monthly or near-monthly and endothelial growth factor (VEGF) therapy is a common scenario in the management of neovascular AMD. Inde than one half of patients treated with anti-VEGF; prospective neovascular AMD trials manifest residual in subretinal, or subretinal pigment epithelium fluid despite anti-VEGF dosing. This persistent macular edema like maximal visual recovery in these challenging cases. 4

Higher dose of existing anti-VEGF agents, as proposed to SAVE, is a potential route for manage incomplete responders. At study entry, patients had recaverage of 24 previous intravitreal injections of anti-VEG including monthly dosing in the year before enrollment (n between injections of 31 days). After 3 monthly 2.0 n patients were evaluated every 4 weeks (cothort A) or every (cohort B) and retreated as needed (PRN) for any in subretinal, or subretinal pigment epithelium fluid det spectral domain optical coherence tomography (SD OCT

After 3 monthly treatments, mean Early Treatment Retinopathy Study (ETDRS) best-corrected visual acuity improved +3.3 letters (P=0.001) and mean SDOCT cent subfield thickness (CST) improved $-33.1~\mu m~(P=0.01)$ gains were maintained through month $12.^2$ with cohorts gaining a mean of +4.1 and +3.7 ETDRS letters, respective ceiving a mean of 11.6 (cohort A) and 8.6 (cohort B) in Anatomically, monthly PRN retreatment led to continual detergescence through year 1, whereas every 6 we

Super-dose Anti-VEGF (SAVE) Trial: 2.0 mg Intravitreal Ranibizumab for Recalcitrant Neovascular Macular Degeneration-Primary End Point

David M. Brown, MD, Eric Chen, MD, Angeline Mariani, BA, James C. Major, Jr., MD, PhD, for the SAVE Study Group

Purpose: To determine whether a higher dose of intravirsal ranibizumab could improve the anatomy and best-corrected visual aculty (BCVA) in eyes with neovascular age-related macular depeneration (AMD) with persistent disease activity despite monthly intravirteal anti-vascular endothelial growth factor (VEGF) injections. Design: Phase I to Il multicenter, open-label, controlled clinical trial.

Participants: Eighty-seven patients with recalcitrant neovascular AMD, defined as having leakage on fundus fluorescein angiography or spectral domain optical coherence tomography (SD-OCT) despite monthly anti-VEGF injections.

Methods: Patients were treated with 2.0-mg ranibizumab injections monthly for 3 doses and monitored with Early Treatment Diabetic Retinopathy Study (ETDRS) 4-m refractions, clinical examinations, and SD-OCT.

Main Outcome Measures: The mean change in baseline visual acuity (VA), the percentage of patients who experienced a loss or gain of 15 or more letters in ETDRS BCVA, the mean change in central retinal thickness, and the incidence of adverse events.

Results: Eighty-seven patients with an average of 24 injections before enrollment and a mean of 10.4 injections in the preceding 12 months had a mean refracted VA of 69.2 ETDRS letters (20/41 Seller) and a mean central subfield of 422 μ m at baseline. Mean VA gain over baseline was +2.5 letters at day 17 in +8.9 letters at month 1 (n +8.9), +3.9 letters at month 2 (n +8.9), and +3.3 letters at month 3 (20/36 Sneller, P = 0.001; n +8.9), +8.9 month 2 (n +8.9), and +8.9 month 2 (n +8.9), and +8.9 m at day 7 (n +8.9), +8.9 m at month 1 (n +8.9), +8.9, and +8.9, +8.9 m at month 2 (n +8.9), and +8.9, +8.9 m at month 3 (+8.9) m at month 2 (n +8.9), and +8.9, +8.9 m at month 2 (n +8.9), and +8.9, +8.9 m at month 2 (n +8.9), and +8.9, +8.9 m at month 2 (n +8.9), and +8.9, +8.9 m at month 2 (n +8.9), and +8.9, +8.9 m at month 2 (n +8.9).

Conclusions: Intravitreal injections of 2.0 mg ranibizumab led to statistically significant VA gains and and another intravitrial substitutional control improvement in patients with persistent intraretinal, subretinal, or subretinal pigment epithelial fluid during a previous regimen of chronic monthly 0.5-mg ranibizumab injections.

Financial Disclosure(s): The author(s) have no proprietary or commercial interest in any materials discussed in this article. Ophthalmology 2013;120:349–354 © 2013 by the American Academy of Ophthalmology.

The standard of care treatment of neovascular age-related macular degeneration (AMD) is based on anti-vascular endothelial growth factor (VEGF) therapies with intravitrea ranibizumah (Lucentis Genentech Inc. South San Francisco, CA), bevacizumah (Avastin, Genentech, Inc.), or aflibercept (Eylea, Regeneron, Tarrytown, NY).1,2 Despite monthly treatment, many patients continue to have persistent intraretinal, subretinal, or subretinal pigment epithelium fluid. The Comparison of Age-Related Treatments Trial (CATT) demonstrated persistent fluid with time domain optical coherence tomography (OCT) in 53.2% and 70.9% of patients treated monthly with standard dose ranibizumal and bevacizumab, respectively.3 Because there are no other alternatives to treat these patients, there exists a significant unmet need for treatment that has increased potency, longer duration of action, or a complementary mechanism of action to eliminate fluid in these recalcitrant cases.

The pivotal phase III Minimally Classic/Occult Trial of the Anti-VEGF Antibody Ranhizuman in the Treatment of Neovascular Age-Related Macular Degeneration (MARINA) and Anti-VEGF Antibody for the Treatment of Predominantly Classic Chroridal Neovascularization in AMD (ANCHOR) and the Company of the Company

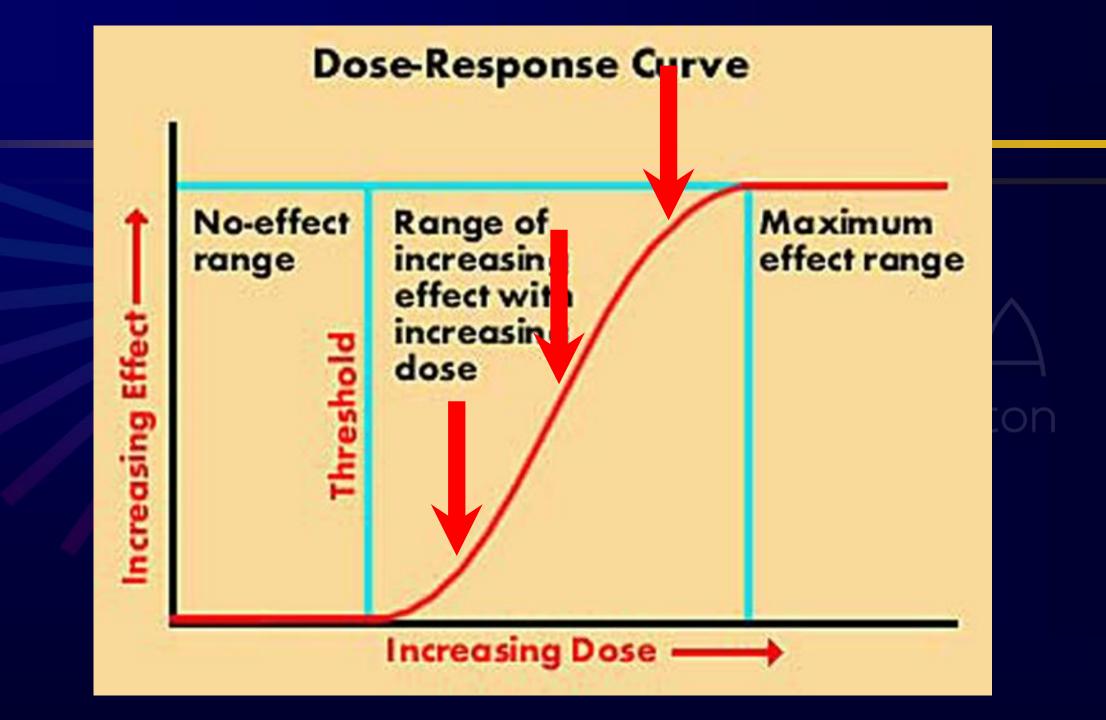
Materials and Methods

This study was a phase I to II multicenter, open-label, randomized, controlled clinical trial (Food and Drug Administration Investiga-

 $\ensuremath{\mathbb{O}}$ 2013 by the American Academy of Ophthalmology Published by Elsevier Inc.

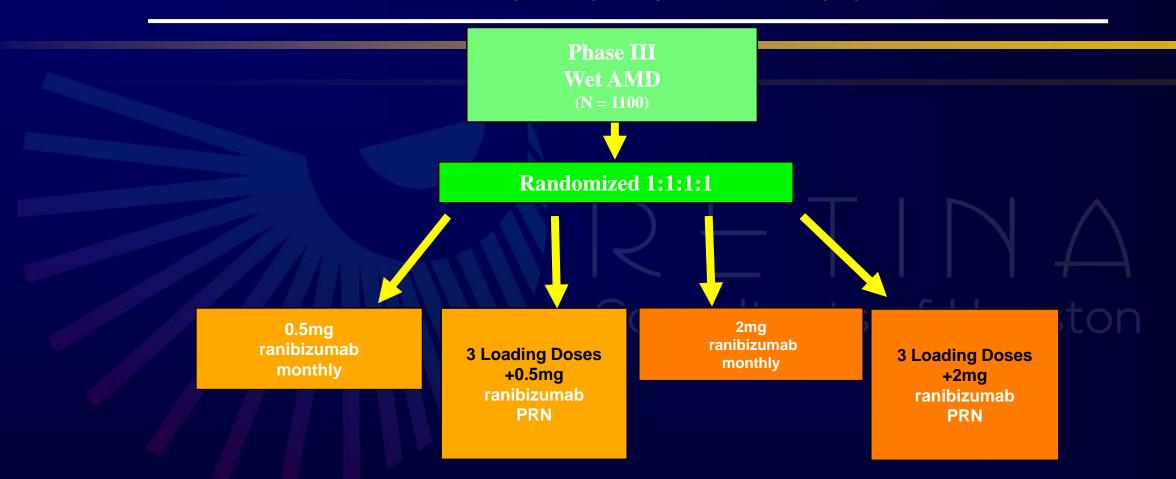
ISSN 0161-6420/13/8-see front matter http://dx.doi.org/10.1016/j.ophtha.2012.08.008





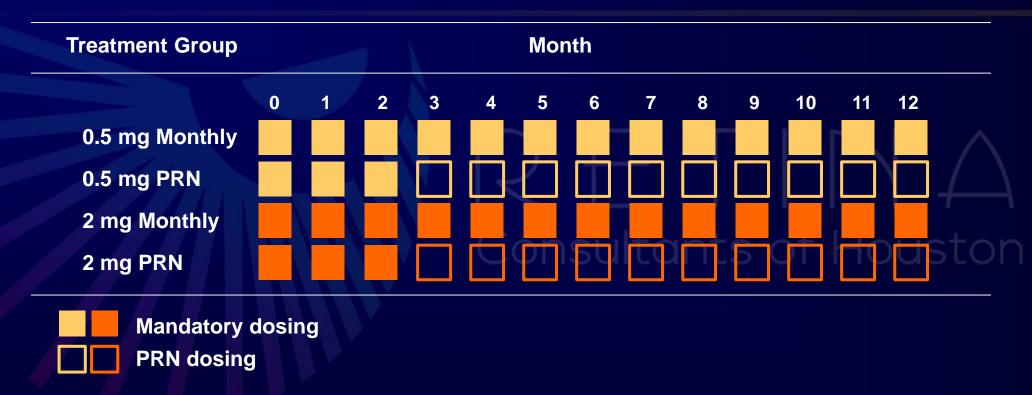
HARBOR Study Design

HARBOR will assess 2mg vs 0.5mg monthly and alternate dosing regimens



HARBOR Treatment Schema*



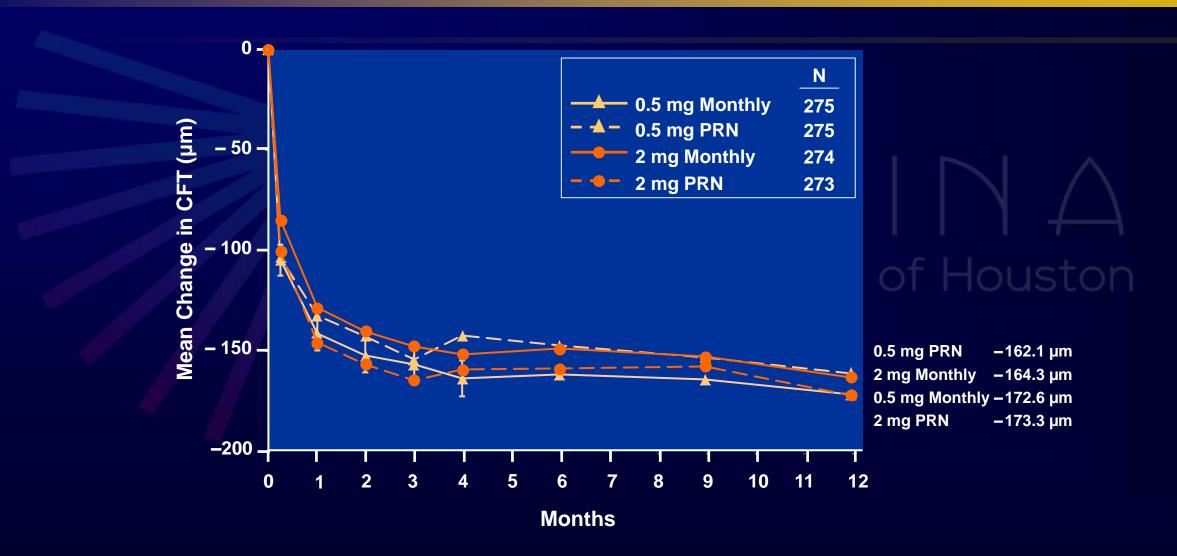


Starting at Month 3, PRN groups were evaluated for retreatment monthly and treated if there was a \geq 5 letters decrease from previous visit <u>OR</u> any evidence of disease activity on SD-OCT

^{*} All groups continued same treatment schedule through Month 24.

Mean Change from Baseline in CFT by SD-O to Month 12





The last-observation-carried-forward (LOCF) method was used to impute missing

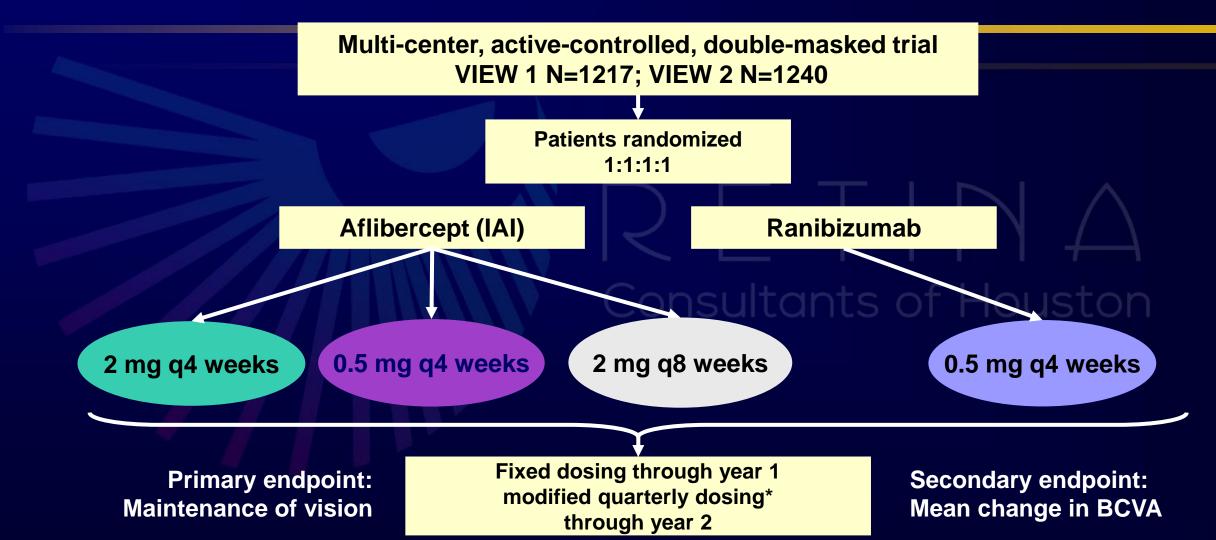


High-Dose Aflibercept

Rationale and Clinical Studies

VIEW 1 and 2 (Phase 3 AMD) Study Designs

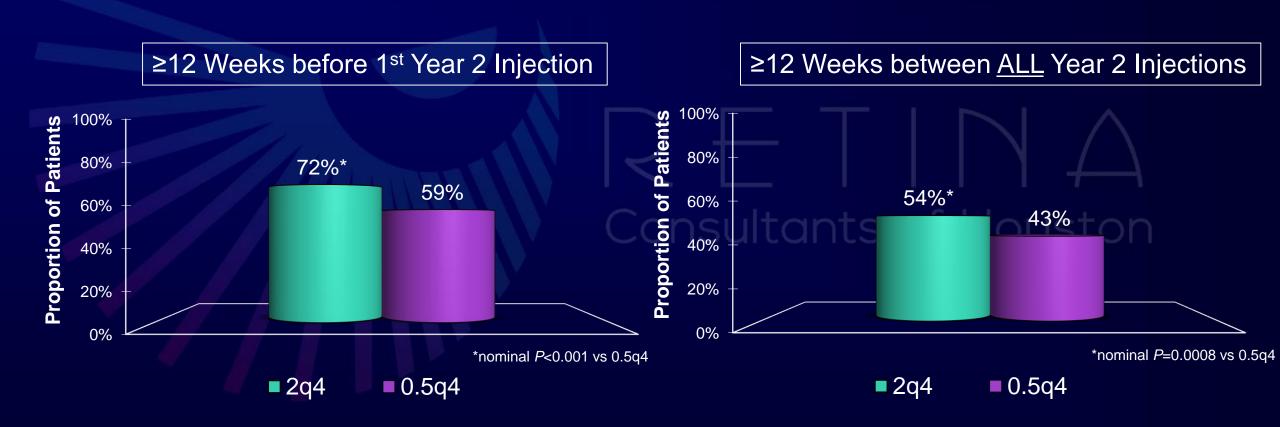




*During year 2, patients were evaluated every 4 weeks, and received doses at least every 12 weeks. Dosing could be as frequent as every 4 weeks.

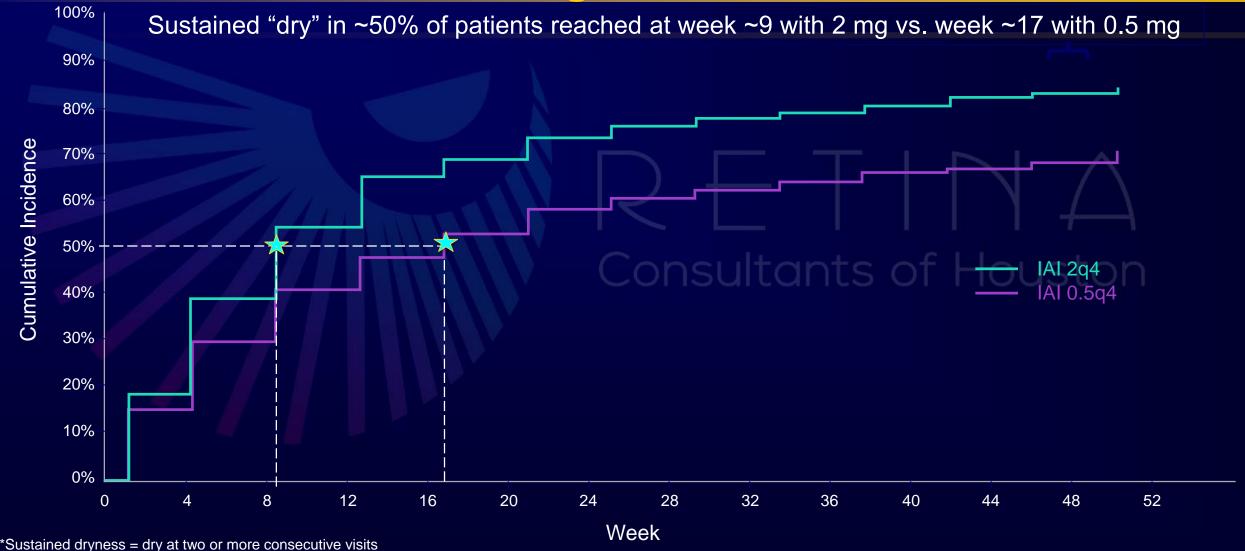
VIEW: A 4X Increase in Aflibercept Dose Results in Significantly More Patients Achieving ≥12 Week Dosing





Cumulative Incidence of Sustained* Dryness through Week 52

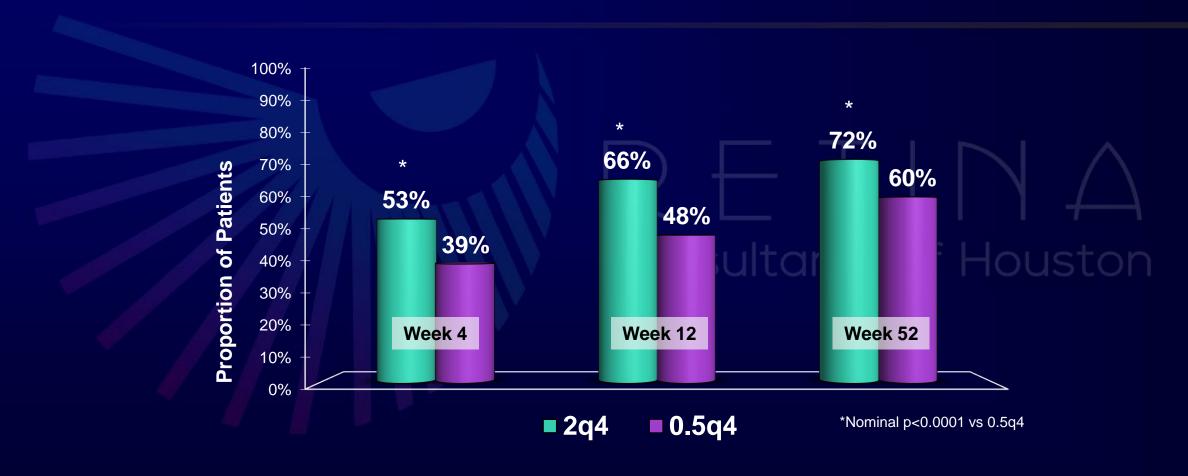




[&]quot;Dry" defined by masked reading center as absence of both cystic retinal edema and subretinal fluid **on Time Domain-OCT**



2 mg vs. 0.5 mg Aflibercept: Proportion of Patients without Fluid in the Center Subfield





VIEW: Visual Acuity for Patients Dosed ≥12 Weeks in Year 2 with 2 mg



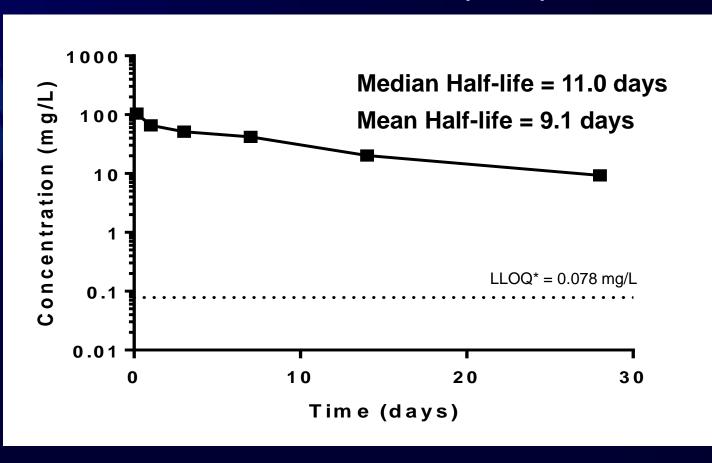
FAS, LOCF Pts Completing 2nd Year; 2g4 n=529;

Aqueous Humor Concentrations of Free Aflibercept Over Time

Five subjects with new-onset nAMD received intravitreal 2mg aflibercept at Day 0

• Sampling of aqueous at 4 h post-dose and Days 1,3,7,14, and 28

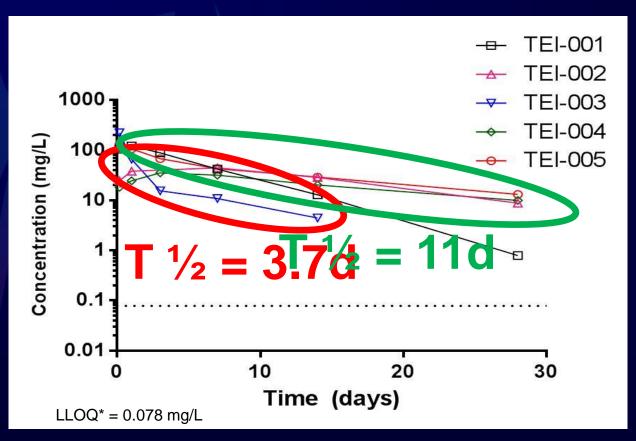
Median Half-life of Free Aflibercept in Aqueous



*LLOQ: lower limit of quantification Do, D. Retina May 2019

Aqueous and Plasma Concentrations Vary Among Patients





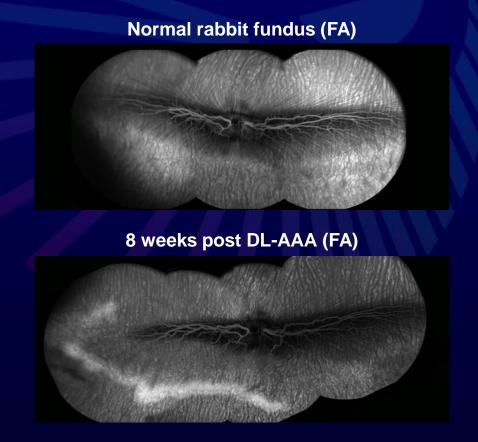
Y Houston

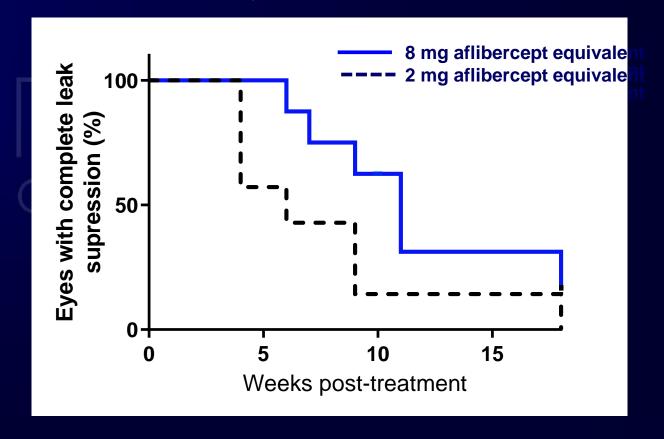
 $LLOQ^* = 0.078 \text{ mg/}$

*LLOQ: Lower Limit Of Quantification **Do, D. Retina 00:1-5, 2019**

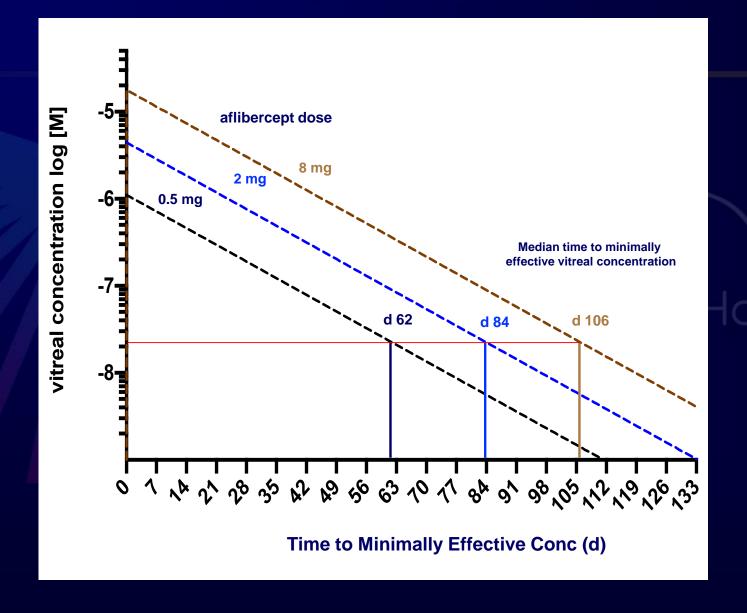
Preclinical Pharmacology Data of 8 mg Aflibercept Dose

In the DL-α-aminoadipic acid (DL-AAA) rabbit model of chronic retinal vascular leak, the 8 mg equivalent dose of aflibercept increased duration of efficacy



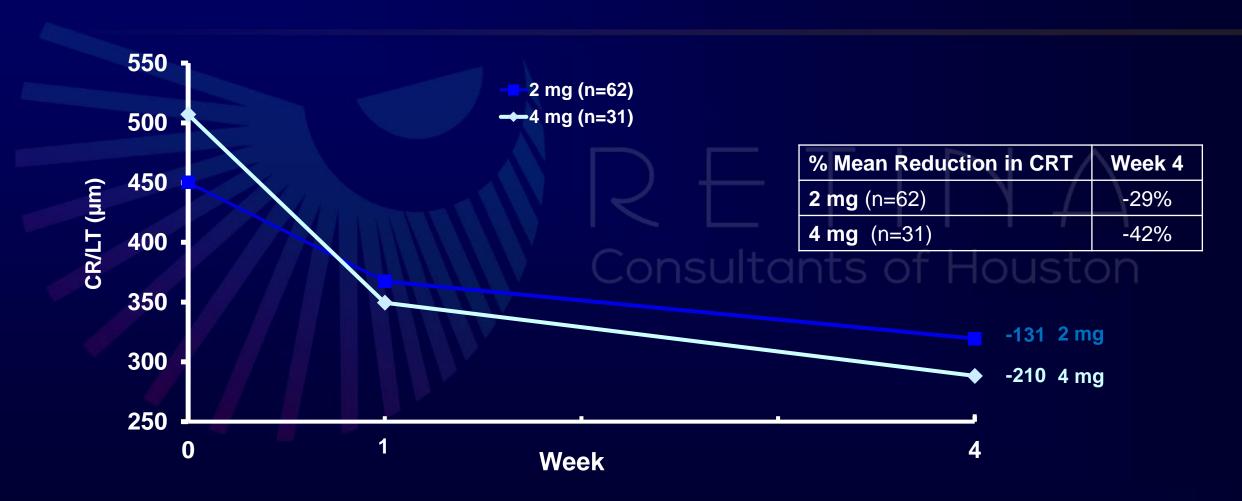


Duration of Aflibercept Activity is Directly Related to Dose



^{*} Assumes 11 d median half-life *Do, D. Retina May 2019*

CLEAR-IT 2 (Phase 2 AMD): Greater Reduction in CR/LT Through Week 4 After Single Dose of 4 mg



CR/LT: Central retinal/lesion thickness manually measured on posterior pole scans with time-domain OCT included the thickness of the RPE/choriocapillaris complex FAS, LOCF

4 mg Aflibercept: Safety

- No new ocular / systemic safety signals identified in combined group of AMD patients (n=81) treated with 4 mg aflibercept
- No serious ocular AEs of intraocular inflammation
 - Only serious ocular AEs were retinal hemorrhage (1 patient) and retinal detachment (1 patient)

- In Phase 1 DME (n=5), 4 mg aflibercept was well tolerated
 - Four patients had ocular AEs, all of which were mild (including conjunctival hemorrhage in 3 patients)

High-Dose Aflibercept Phase 2 in AMD



Multi-center, randomized, single-masked
Patients with neovascular AMD (treatment naïve), N=100*
Randomized 1:1

IAI 2 mg 3 initial monthly injections HD (8 mg)
3 initial monthly injections

Week 4:

Primary Endpoint: Safety

Week 20

Primary Endpoint: % pts without retinal fluid

Follow-up to Week 44 (End of Study)

NCT04126317

High-Dose Aflibercept Phase 2 Dosing Schedule



		Wk 4 Safety Analysis	7			Wk 20 Efficacy Analysis						Wk 44 Analysis EOS
	Day 1 (baseline)	Wk 4	Wk 8	Wk 12	Wk 16*	Wk 20	Wk 24	Wk 28	Wk 32	Wk 36	Wk 40	Wk 44
IAI – 2 mg 50 μl	X	X	X			X	PRN	PRN	X	PRN	PRN	
HD – 8 mg 70 μl	X	X	X			X	PRN	PRN	X	PRN	PRN	

^{*}Additional treatment allowed after discussion with sponsor

Aflibercept 8 mg Clinical Studies – Current Status

- Phase 2, single-masked, study of 8 mg aflibercept in neovascular AMD is currently enrolling
- Phase 3 studies in neovascular AMD and DME investigating dosing intervals of 12 weeks and longer will be initiated in 2020

Take Home Messages

Higher Dose Anti-VEGF improves anatomy /VA in historical RCTs

Aflibercept (Like most anti-VEGFs) has a linear PK curve

8mg Aflibercept should provide two ½-lives more duration

 Variability in vitreous half-life makes standardized dosing/ clinical trial design challenging