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Disclosures	
Commercial Interest	Type of Financial Relationship
Adverum; Allergan; Bausch & Lomb Incorporated; Chengdu Kanghong Pharmaceutical Group Co Ltd; D.O.R.C. Dutch Ophthalmic Research Center (International) B.V.; EyePoint Pharmaceuticals; Gemini Therapeutics; Genentech, Inc; Gyroscope; Kodiak Sciences Inc; Novartis Pharmaceuticals Corporation; Opthea; Oxurion NV; Recens Medical, Inc; and Regenxbio Inc	Consulting Fee
Allergan; Genentech, Inc; and Novartis Pharmaceuticals Corporation	Speakers Bureau
Adverum; Allergan; Chengdu Kanghong Pharmaceutical Group Co Ltd; F. Hoffman-La Roche Ltd; Gemini Therapeutics; Genentech, Inc; Gyroscope; IVERIC bio; Kodiak Sciences Inc; Novartis Pharmaceuticals Corporation; Opthea; Oxurion NV; Recens Medical, Inc; and Regenxbio Inc	Contracted Research

Co-Chair

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Partner

California Retina Consultants

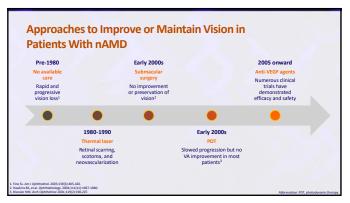
Director

California Retina Research Foundation

Santa Barbara, California

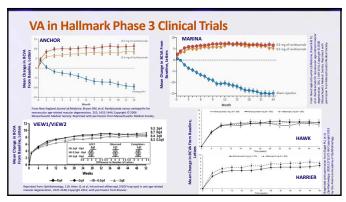
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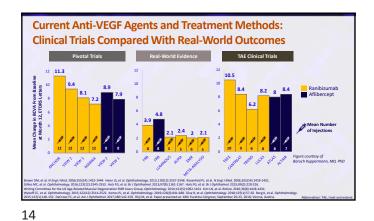
Commercial Interest Adverum; Allegro Ophthalmics, LLC; Gemini Therapeutics; Genentech, Inc; Novartis Pharmaceuticals Corporation; Regeneron Pharmaceuticals, Inc; and Regenxbio Inc Adverum; Aerie Pharmaceuticals, Inc; Apellis Pharmaceuticals; Chengdu Kanghong Pharmaceutical Group Co Ltd; Gemini Therapeutics; Genentech, Inc; GrayBug, Inc; Ionis Pharmaceuticals, Inc; Kodiac Sciences Inc; Novartis Pharmaceuticals, Corporation; Regeneron Pharmaceuticals, Inc; Regenxbio Inc; Santen Inc; and Stealth BioTherapeutics Inc

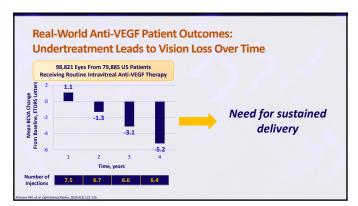


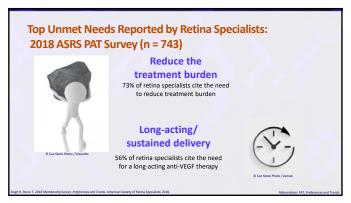


Drug	Trial	Dose	Mean BCVA Δ at 2 Years, Letters	Safety
Bevacizumab*	CATT ¹	1.25 mg q4w	+7.8	Higher systemic adverse events with bevacizumab vs ranibizumab
Ranibizumab	ANCHOR/ MARINA ^{2,3}	0.5 mg q4w	+6.6 to +10.7	 1.3%-2.1% endophthalmitis 6.4%-14.6% ocular inflammation ≥ 1+
Aflibercept	VIEW1/ VIEW2 ⁴	2 mg q4w or q8w	+7.6 to +7.9	Endophthalmitis in < 1% in each group
Brolucizumab	HAWK/ HARRIER ^S	6 mg q12w or q8w	+5.9 to +6.1	Endophthalmitis < 1% Inflammation 4.7% Rare postmarketing reports of vasculitis ^{6,7}

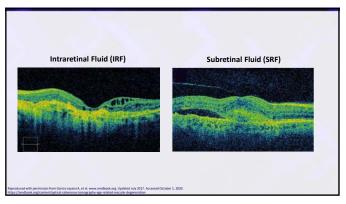


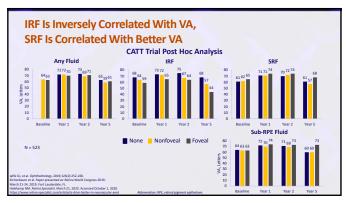


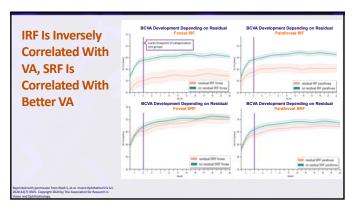


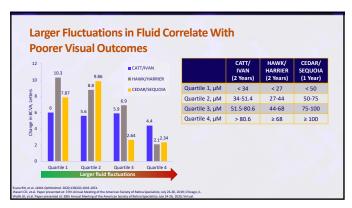


Study	Proportion of Patients on ≥ 12-Week Dosing
TREX-AMD¹ Ranibizumab (n = 60)	17% (2 years)
LUCAS ² Ranibizumab (n = 218) Bevacizumab (n = 213)	33% to 57% (2 years)
TREND ³ Ranibizumab (n = 650)	22.3% (1 year)
CANTREAT ⁴⁻⁶ Ranibizumab (n = 580)	29.9% (1 year) 43.1% (2 years)
ATLAS ⁷ Aflibercept (n = 40)	35% (1 year) 38% (2 years)
ALTAIR ^{8,9} Afliberceot (n = 225)	60% (2 years)

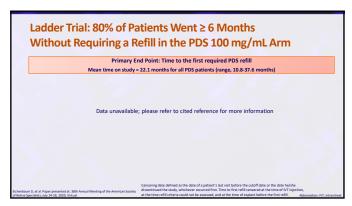


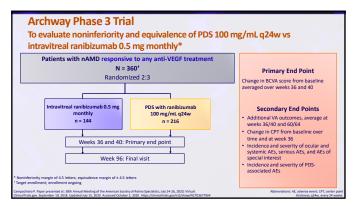






Port Delivery System (P	DS) With Ranibizumab
Novel drug delivery system/reservoir Permanent, refillable intraocular implant	Shorman had only part of the p
 Customized formulation of ranibizumab Implant is surgically placed at the pars plana 	Non-ribad World
 Refills performed in office Enables continuous delivery of ranibizumab into vitreous 	
Passive diffusion follows Fick's law viried with permission from Compositive PA, Marcus CM, Awh CC, et al. Ophthalmology. 2019 project 2019 to the American Academy of Ophthalmology. 2019 The Marchite PL 2019 These Philosophish Marchite Computations project 2019 to the American Academy of Ophthalmologic Computations project 1019 The Marchite PL 2019 These Philosophish Marchite Computations project 1019 The Marchite PL 2019 The Marchite Philosophish Marchite PL 2019 The Ph	





Change in	BCVA From Baseline Average	ed Over Weeks 36 and 40, ETDR	S Letters
	PDS With Ranibizumab 100 mg/mL q24w (n = 248)	Intravitreal Ranibizumab 0.5 mg q4w (n = 167)	Difference in Adjusted Mean
Adjusted mean (95% CI)	+0.2 (-0.7 to +1.1)	+0.5 (-0.6 to +1.6)	-0.3 (-1.7 to +1.1)

Thic	kness Over 36 to	40 W	eeks			
	ed Mean BCVA Change Mean of 5.0 Previous Anti-VEGI			•	d Mean CPT Change Fro	
	Treatment	ETDRS	Snellen			Retinal
	PDS with ranibizumab 100 mg/mL q24w (n = 248)	74.4	20/32		Treatment	Thickness µm
Baseline	Intravitreal ranibizumab 0.5 mg q4w (n = 167)	75.5	20/32	Baseline	PDS with ranibizumab 100 mg/mL q24w (n = 248)	176.9
Weeks	PDS with ranibizumab 100 mg/mL q24w (n = 248)	74.6	20/32	Baseline	Intravitreal ranibizumab 0.5 mg q4w (n = 167)	177.4
36/40	Intravitreal ranibizumab 0.5 mg q4w (n = 167)	76.0	20/32	Week 36	PDS with ranibizumab 100 mg/mL q24w (n = 248)	182.3
	Lusing a mixed-effect model for receated measures, with			week 36	Intravitreal ranibizumab 0.5 mg q4w (n = 167)	180.0

MedDRA Preferred Term,	PDS With	Ranibizumab 100 (n = 248)	Predominately subconjunctival thickening; all cases classified as nonserious	
n (%)†	Time From Surgery			
Ī	≤1 Month	> 1 Month	— Total [∓]	iotal*
Conjunctival bleb/ Conjunctival filtering bleb leak	11 (4.4%)	6 (2.4%)	16 (6.5%)	0
Vitreous hemorrhage	12 (4.8%)	1 (0.4%)	13 (5.2%)	4 (2.4%)
Cataract ⁵	1 (0.4%)	9 (3.6%)	10 (4.0%)	6 (3.6%)
Conjunctival erosion	1 (0.4%)	5 (2.0%)	6 (2.4%)	0
Conjunctival retraction	1 (0.4%)	4 (1.6%)	5 (2.0%)	0
Endophthalmitis	0	4 (1.6%)	4 (1.6%)	0
Rhegmatogenous retinal detachment	1 (0.4%)	1 (0.4%)	2 (0.8%)	0
Hyphema	1 (0.4%)	0	1 (0.4%)	0
All cases of vitreous hemorrhage reso 1 of 248 PDS-treated patients had irre 1 PDS patient experienced device disli- fined ocular AEs of special interest potentially related bunds by preferred term. Multiple occurrences of the s	versible vision loss due ocation into the eye dur o the PDS implant or implant pro	to an AE (Enterococcus ing a refill-exchange p	s foecalis endophthalmitis) rocedure; following removal, th	e patient's vision returned to be

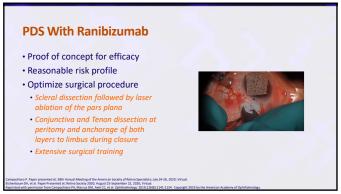
MedDRA Preferred Term, n (%)†	PDS With	Intravitreal Ranibizumab 0.5 mg q4w (n = 167)		
	Time From Surgery			
Г	≤ 1 Month	> 1 Month		ed spontaneously;
Conjunctival bleb/ Conjunctival filtering bleb leak	11 (4.4%)	6 (2.4%)	none requi	red vitrectomy
/itreous hemorrhage	12 (4.8%)	1 (0.4%)	13 (5.2%)	4 (2.4%)
Cataract ⁶	1 (0.4%)	9 (3.6%)	10 (4.0%)	6 (3.6%)
Conjunctival erosion	1 (0.4%)	5 (2.0%)	6 (2.4%)	0
Conjunctival retraction	1 (0.4%)	4 (1.6%)	5 (2.0%)	0
Endophthalmitis	0	4 (1.6%)	4 (1.6%)	0
Rhegmatogenous retinal detachment	1 (0.4%)	1 (0.4%)	2 (0.8%)	0
Hyphema	1 (0.4%)	0	1 (0.4%)	0
All cases of vitreous hemorrhage reso 1 of 248 PDS-treated patients had irre 1 PDS patient experienced device dish	versible vision loss due	to an AE (Enterococcus)	aecalis endophthalmitis)	II, the patient's vision returned to I

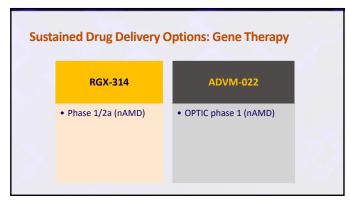
MedDRA Preferred Term, n (%)†	PDS With	Intravitreal Ranibizumab 0.5 mg q4w (n = 167)		
	Time Fro	m Surgery	Cataract rates of	Cataract rates comparable across arms;
	≤ 1 Month	> 1 Month	no cases of	traumatic cataracts
Conjunctival bleb/ Conjunctival filtering bleb leak	11 (4.4%)	6 (2.4%)	10 (0.370)	
/itreous hemorrhage	12 (4.8%)	1 (0.4%)	13 (5.2%)	4 (2.4%)
Cataract ⁶	1 (0.4%)	9 (3.6%)	10 (4.0%)	6 (3.6%)
Conjunctival erosion	1 (0.4%)	5 (2.0%)	6 (2.4%)	0
Conjunctival retraction	1 (0.4%)	4 (1.6%)	5 (2.0%)	0
ndophthalmitis	0	4 (1.6%)	4 (1.6%)	0
Rhegmatogenous retinal detachment	1 (0.4%)	1 (0.4%)	2 (0.8%)	0
Hyphema	1 (0.4%)	0	1 (0.4%)	0
All cases of vitreous hemorrhage reso 1 of 248 PDS-treated patients had irre 1 PDS patient experienced device disl	versible vision loss due	to an AE (Enterococcus f	aecalis endophthalmitis)	

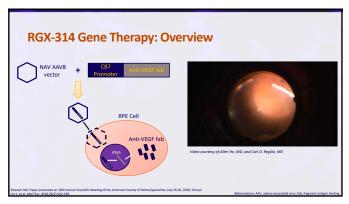
MedDRA Preferred Term,	PDS With	Intravitreal Ranibizumab 0.5 mg q4w (n = 167)		
n (%)†		m Surgery	Total [‡]	Total [‡]
	≤ 1 Month	> 1 Month	10101	
Conjunctival bleb/ Conjunctival filtering bleb leak	11 (4.4%)	6 (2.4 9 case		h flap revisions or coverage of
Vitreous hemorrhage	12 (4.8%)	1 (0.4	implant flange with p	partial thickness cornea
Cataract ⁵	1 (0.4%)	9 (3.6%)	10 (4.0%)	(3.6%)
Conjunctival erosion	1 (0.4%)	5 (2.0%)	6 (2.4%)	0
Conjunctival retraction	1 (0.4%)	4 (1.6%)	5 (2.0%)	0
Endophthalmitis	0	4 (1.6%)	4 (1.6%)	0
Rhegmatogenous retinal detachment	1 (0.4%)	1 (0.4%)	2 (0.8%)	0
Hyphema	1 (0.4%)	0	1 (0.4%)	0
All cases of vitreous hemorrhage reso 1 of 248 PDS-treated patients had irre	versible vision loss due	to an AE (Enterococcus fi	, gecalis endophthalmitis)	al. the patient's vision returned to b

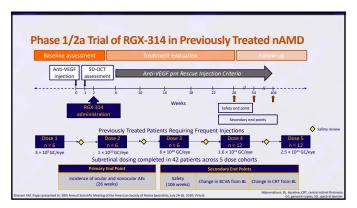
PDS implant insertion	PDS With	Intravitreal				
MedDRA Preferred Term, n (%)†	PDS WILLI	Ranibizumab 0.5 mg q4w (n = 167)				
	Time Fron	n Surgery		Total [‡]		
	≤1 Month	> 1 Month	Total [‡]			
Conjunctival bleb/ Conjunctival filtering bleb leak	11 (4.4%)			o conjunctival retraction		
Vitreous hemorrhage	12 (4.8%)		 1 of 4 cases associated with irreversible vision lo 3 of 4 cases vision returned to baseline 			
Cataract ⁶	1 (0.4%)		of 4 patients remained on PDS treatment			
Conjunctival erosion	1 (0.4%)	5 (2.0				
Conjunctival retraction	1 (0.4%)	4 (1.6%)	5 (2.0%)	70		
Endophthalmitis	0	4 (1.6%)	4 (1.6%)	0		
Rhegmatogenous retinal detachment	1 (0.4%)	1 (0.4%)	2 (0.8%)	0		
Hyphema	1 (0.4%)	0	1 (0.4%)	0		
All cases of vitreous hemorrhage reso 1 of 248 PDS-treated patients had irre 1 PDS patient experienced device disl	versible vision loss due t	o an AE (Enterococcus f ng a refill-exchange pro	aecalis endophthalmitis)	, the patient's vision returned to b		

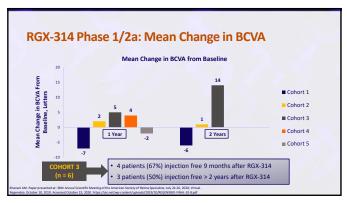
MedDRA Preferred Term,	PDS With	Intravitreal Ranibizumab 0.5 mg q4w (n = 167)			
n (%)†		m Surgery	Total [‡]	Total‡	
	≤1 Month	> 1 Month			
Conjunctival bleb/ Conjunctival filtering bleb leak	11 (4.4%)	6 (2.4%)	16 (6.5%)	0	
Vitreous hemorrhage	12 (4.8%)	1 (0.4%)	13 (5.2%)	4 (2.4%)	
Cataract ⁶	1 (0.4%)	9 (3.6%)	10 (4.0%)	6 (3.6%)	
Conjunctival erosion	1 (0.4%)	5 (2.0%)	C (2.00)		
Conjunctival retraction	1 (0.4%)	4 (1.6%)	2 of 2 cases repaired with vitrectomy		
Endophthalmitis	0	4 (1.6%)			
Rhegmatogenous retinal detachment	1 (0.4%)	1 (0.4%)	2 (0.8%)	0	
Hyphema	1 (0.4%)	0	1 (0.4%)	0	





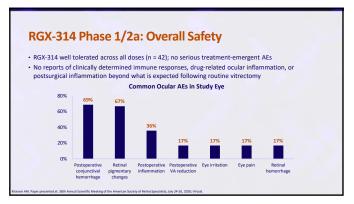


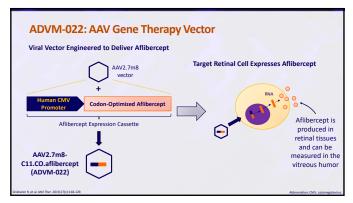


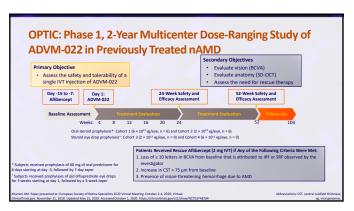


Treatment Burden Reduction With RGX-314 Mean Change in Annualized Injection Rate Before and After RGX-314 RGX-314 Treatment Arm Before RGX-314 **Cohort 1** 3 x 10⁹ GC/eye (n = 6) 10.3 (+9.5%) 9.6 9.8 (+ 1.8%) Cohort 2 1 x 10¹⁰ GC/eye (n = 6) 10.5 8.2 (-11.5%) 9.3 (-2.7%) Cohort 3 6 x 10¹⁰ GC/eye (n = 6) 2.2 (-68.4%) 2.8 (-62.2%) 6.8 Cohort 4 1.6 x 10¹¹ GC/eye (n = 12) 10.2 4.1 (-61.3%) Cohort 5 2.5 x 10¹¹ GC/eye (n = 12) 9.9 1.4 (-84.5%)

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	Cohort 1	Cohort 2	Cohort 3
Number of patients	(6 × 10 ¹¹ vg/eye, n = 6) 6 (5 from week 56 to 72)	(2 × 10 ¹¹ vg/eye, n = 6) 6 (5 for week 36 and 40 visits)	(2 × 10 ¹¹ vg/eye, n = 9) 9 (8 for weeks 4, 16, and 20)
Follow-up, weeks	64-84 (median: 72)	52-56 (median: 52)	20-40 (median: 36)
Rescue-free patients, %	100 (6/6)	50 (3/6)	78 (7/9)
Mean BCVA change from baseline, letters			
All patients	-3.2	-2.0	+4.0
Rescue-free patients		+0	+6.4
Mean CST change from baseline, μm			
All patients	-21.0	-24.8	-118.6
Rescue-free patients		8.3	-152.7

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Safety Summary Across Cohorts

- No ADVM-022-related nonocular AEs
- · No deaths or discontinuations in OPTIC
- When observed, inflammation has been responsive to and manageable with steroid eye drops
 Minimal early inflammation with steroid eye drop prophylaxis in cohorts 3 and 4
- No clinical or fluorescein angiographic evidence of posterior inflammation · No vasculitis, retinitis, choroiditis, vascular occlusions, or endophthalmitis
- All ADVM-022–related ocular AEs were mild (78%) to moderate (22%)
- One AE of special interest, moderate recurrent uveitis, was deemed to be related to ADVM-022 and was responsive to steroid eye drops (cohort 1)
- One unrelated ocular serious AE of retinal detachment surgically repaired and resolved (cohort 1)
- · Two patients had mild AEs of IOP elevation that resolved

