Intravitreal Axitinib Implant (OTX-TKI) for the Treatment of Retinal Vascular Diseases:

Phase 1 Data from nAMD and NPDR Trials

The following presentation discusses aninvestigational durg. OTXTKI (door referred to as AXMAXL^{TP}), in development. OTX-TKI's efficacy and sofety profiles have not been established, and it has not been appoved for marketing by the U.S. Foodard Drug Administration (FDA) orany other health agency.

















OTX-TKI in Neovascular Age-Related Macular Degeneration

Results from the Phase 1 Australia Dose-escalation and Phase 1 US Randomized Trials

Our Phase 1 Trials Established Proof of Biological Activity for OTX-TKI in Two Patient Populations

	Australia Phase 1 Trial Phose or concers: Des01%TR has biologcalacsWy?	Open-Label, Dose E scal at ion Trial ¹ *20 patens doce with 07x70 To e value the scale scale add object (1 strik) of 07 % T0 in textments alwe or previously texted active wet AVD patens is *3 add y initiated in 2013 * Interim with two more strated potential as a dura ble nuclein ed-release product demon at a ting biological activity in subjects with pre-existing fluid
	U.S.	Randomiz ed, Mas ked, Con trolled Trial ²
	Phase 1 Trial	16 patients dosed with O IX-IKI To evaluate the safe ty and biological activity of OT X-TKI in previously treated controlled wet
Ĩ	DURABILITY: How longdoes the biological activity of OTX-TKI last?	A MD patient scom pared to affibe rcept Q8W
Ļ		 22-months is subscribed and potential as a durable sustain ed-release maintenance therapy for 6-12 months in subjects with controlled retinal fluid

























	AUS SIU DY1					
	Coular AlbintheStudyEye Reported bySever by	Cahort1 200 µg n=6	Cohort2 400 µg a-7	Cohort3a 600 µg art6	Cohont3b 400 µg+ anti-VEGF n=4	T da I N= 23
THE AUS AND US PHASE 1	Ocular Alts	4	7	6	3	20
TUDIES ^{1,2} :	ми	4	7	6	3	20
	Modeste	0	1	1	1	7
No drug-relate docular or systemic serious AFs were reported with OTX-TX1	Serve re	0	0	1*	0	
	Serious Alls	0	0	0	0	0
No retinal detachment, retinal vasculitis,	US STU DY2					
hambar AFr wara ramata dia subiaste uba	Reported by Sever by	01	n=16		A118-9 10801	
manuel ALS well reported in subjects with	Outar Ala		16		1	
	Mid		14		2	
	M ad era te		2*	_	14	_
	Se ve ce		0		0	













OTX-TKI in Moderately Severe to Severe Non-Proliferative Diabetic Retinopathy

Results from the HELIOS Phase 1 Trial



		Cham
Characteristic	(N=14)	(N=8)
Age, mean, years	53.7 (14.7)	64.0 (7.1)
Sex, n (%) Female Male	5 (35.7) 9 (64.3)	5 (62.5) 3 (37.5)
DRSS, n (%) Level 4.7 (Moderately severe NPDR) Level 5.3 (Severe NPDR)	0 14(100)	2 (25.0) 6 (75.0)
BCVA, mean (SD), ETDRS letters Approximate Snellen equivalent	829 (5.2) 20/25	84.5 (5.2) 20/20
CSFT, mean (SD), μm	268.7(21.5)	283.0(32.1)



HELIOS Safety Overview at Week 48 OTX-TKI was generally well tolerated, with no ocular SAEs reported OTX-TKI was generally well tolerated All AEs were mild and balanced aross the two arms, with no moderate or severe AEs reported in either arm No ocular SAEs reported in either arm No treatment- or injection procedure-related intrao cular inflammation, ir Ris, vitritis, or vasculitis No subjects in either arm received rescue medication





























Interim Results from the PRISM Phase 1/2 Clinical Trial Evaluating Intravitreal 4D-150 in Adults with Neovascular Age-related Macular Degeneration

Carl J. Danzig, M.D. Rand Eye Institute, Deerfield Beach, FL



Disclosures*

Investigator: 4DMT, Adverum, Alexion, Annexion, Astellas/IvericBio, Aviceda, Bayer, Curacle, SyeBio, ByePoint, Genertech, Gyroscope, Kodlak, Ocular Therapeutix, Regeneron, Regenotio, Recolute, Roche, Stealth, Univ

Consultant 4DMT, Adverum, Alimera, Astellas, Eyebio, EyePoint, Galimedix, Genentech, Kodak, Coular Therapeutix, Oculis, Ocuphire, Opthea, Regeneron, Regenzobio, Roche, Samsung Bioepsis, Stealth

Speaker: Astellas, Genentech

"Disd au res an dispe died roles during the last calend ar yes r.

Key Takeaways

PRISM Phase 2 Clinical Trial Interim Results

- 4D-150: dual-transgene intravitreal gene the rapy
- $_{\odot}~$ Evolved retin otropic AAV vector, dual-transgene payload (aflibercept, VE GF-C RNAi)
- PRISM Phase I/2 clinical trial: Evaluation of 4D-150 in a broad wet AMD population
- PRISM Phase 2 interim results (Week 24)—3×10¹⁰ vg/eye:
- · 4D-150 was safe and well t olerated
- No 4D-150-related serious adverse events and no clinically significant inflammation
- + 100% (49/49) of participants completed prophylactic conticosteroid regimen on schedule
- Durable clinical activity observed in both Phase 2 cohorts
- 89% reduction in annualized anti-VEGF injections
- Stable visual acuity
- · Sustained reduction in CST, stabilization of CST fluctuations
- where an end of the transformer of the standard state of the state of

4D-150

- Dual-Transgene In travitreal Gene The rapy
- Primate-evolved intravitreal R100 capsid carrying a dual-transgene payload
 Aflibercept and VEGF-C RNAi
- Single-dose intravitreal administration
- Widespread delivery to all major regions and layers of the macula
- Robust pan-retinal transgene expression
- Inhibition of 4 distinct VEGF family members: VEGF-A, -B, -C, and PIGF







Phase 2a Dose Expansion	
Key Elgi bil ity Criter ia > Soant-VEG Firiget tions during prior 12 months = CST: > 235, um and presence of suble tinal or h transciral fluid = BCVA: 34-83 ETDRS letters	
Phase 2b Population Extension Key Eligi bility Criter ia I-Santi-VEG'in jection siduring prior 12 months (el linjection in fre las 12 weeks) CST: No minimum BC/A: 34-83 ETDRS letters	



				1	
		Dose Expansion		Popul ation	Extensio n
	4D-150 3×1010 vg/eye (N= 20)	4D-150 I×1010 vg/eye (N=21)	Aflibe icep t 2 mg Q8 W (N= 10)	4D-150 3×10:0 vg/eye (N =30)	4D-150 1×10:0 vg/eye (N=15)
Mean ±SD age, years	77 ±8.0	77 ±8.6	80 ±4. I	77 ±7.7	78 ±8.6
Female, n (%)	8 (40)	11 (52)	5 (50)	20 (67)	6 (40)
Race, n (%) White Asian	18 (90) 2 (1 0)	21 (100) 0	9 (90) I (10)	30 (100) 0	14 (93) 1 (7)
Mean ±SD time since di agnosis, years	4.0 ±3.0	29±22	1.9±1.5	1.8±3.5	0.7±0.9
Mean ±SD BC VA, ETDRS le tters	68 ±11.3	71 ±12.4	71 ±13.2	71 ±9.9	73 ±8.8
Mean ±SD c entral subfield thick ness, µm	42.9 ±89.3	465±114.1	41 9 ±64.3	33.6 ±13.5.0	314±70.8
Mean prior an nualized injection rate*	10.0	9.9	9.0	8.3	10.7
Mean ±SD actual injections, prior 12 mo*	99+74	94+21	93+09	44+20	4 3 + 2 1























Summary and Conclusions

- PRISM Phase I/2 clinical trial
- o Broad wet AMD population with a wide range of disease activity and anti-VBGF treatment burden
- Phase 2 interim results (Week 24)—3×10¹⁰ vg/eye:
- $_{\odot}~$ 4D-150 was safe and well tolerated
- No 4D-150-related serious adverse events and no clinically significant inflammation
- No hypotony, endophthal mitis, retinal vasculitis, choroidal effusions, or retinal artery o cd usions
 100% (49/49) of participants completed prophylactic corticosteroid regimen on schedule
- Durable dinical activity observed in both Phase 2 cohorts
- 89% reduction in annualized anti-VEGF injections
- Stable visual acuity
- Sustained reduction in CST, stabilization of CST fluctuations
 Initiation of Phase 3 clinical trial anticipated in early 2025

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Combination Therapy: Anti-VEGF and Steroid

M cheal Singer, M.D. Preston O'Brian, M.S. Clinical Professor of Oynthal mology UT Health San Antonio Director of Clinical Research Medical Center Ophthalmology, San An brio Texas



- Consultant: Alim era, Allergan, <AN, Apellis, EyePoint, Genentech, Astellas, , Ocul ar Therapeutix, Regeneron
- Speaker Contracted by Ineligible Company: Al largan, ANI, A pellis, EyePoint, Genentech, Astellas, Regeneron
- Independent Research Contractor: Allergan, Apellis, Asthvena, EyePoint, Genentech, Astellas, , Kodak, Optos, Regeneron, Rezolute, Valo
- * Individual Stocks and Stock Options (privatel yheld): Aviceda, Inflamm asome, Nanoscope, Olives Bio Therapeutics



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- Hôpital de la Croix-Rousse CHU de LYON,



Combination Therapy: Studies you may know Anti-VEGF and then steroid implant

- History first studied in 2005 in relation to retinal vein occlusion
 DRCR Protocol U 2017 (Dexam ethasone implant)
- Reinforce 2018 (Dexamethasone implant)







True or False: There are more non responders to steroids than to anti-VEGF in $\ensuremath{\mathsf{DME}}$







over njec	time, meaning tions!	that they may n	otbedependen	ton the numbe	r of
	Clini cal trial	Functional non- responders at Year 1 (%)	Functional non- responders at Year 2 (%)	Functional non- responders at Year 3 (%)	
- 1	Protocol 1-3	28%1	31%2	33%3	
- 1	Restore 4-8	35%4	34%5	34%*	
	Clini cal trial	Functional non- responder at Month 3 (%)	Functional non- responder at Month 6 (%)	Functional non- responder at Year 1 (%)	
	Boreal-DME 7	43%	39%	40%	
		Obstinacy does not	guarantee success		
VEGF, vi 1 DRCRn Nowmbo 20151202	e cular andothálial growth factor; D.h et Elman et al. Ophthalmdagy 2010 Jun ; 1.19(11): 2.33-2318 4 RESCOREI yan 106-2012 6. RESTOREI yans Schmid	HI, diabetic macualar ede mac VA, visual a 1 256) 1 04-10 77 e 35 2 DRCRar tElmanet al. e. Mitcholik al. Ophthalmdog y 2011 J R68 5 Efriuth et al. Ophthalmdog y 2014 May 1 21 (5	cuity: IVI, intravenous injections. Ophthalmdagy 2011 J 1609–614 3. DRCRr 425 5. REFD RE 2 yans. Large tal Ophth : 1015-3 ZP Massin et al. Communication	et Elman et al. Ophthalm dogy. 2012 am dogy Ophthalm dogy 9FO 2877 & Couxot Canter et al.,	







True or false: The amount of edema has no effect on visual recovery















6







False: Binary VA Outcomes

	Combination Group (N = 63)	Ranibizumab Group (N = 64)	P-value
VA at 24 Weeks			
20/20 orbetter	6%	5%	0.70
20/40 orbetter	51 %	52 %	0.80
20/20 0 or worse	6%	5%	0.70
Changesat24Weeks			
≥15iettersimprovement	11 %	2%	0. 03
≥10lettersimprovement	22 %	14 %	0.34
≥15lettersworsening	6%	5%	0.62
≥10 letters worse ning	13 %	6%	0.09
* Pre-pla nned zeco ndary ou trom es			1











True or False: Treating eyes with better vision is associated with better final vision









Real life study U SA: REINFORCE: A Prospective Multicenter Study of Dexamethasone Intravitreal Implant (DEX) in Diabetic Macular Edema (DME)

Michael A. Singer, MD1; Pravin U. Dugel, MD2; How and F. Fine, MD3; An tonio Capone, Jr., MD4; John Mattman, PhD5



Introduction

- Dexame thas one intravitieal implant (DEX) has shown efficacy in patients with diabetic macular edema (DME) in controlled trials
- Data on real-world outcomes in DME patients receiving DEX as monotherapy or adjunctive therapy are limited

Study Objective

To assess the effectiveness, safety, and real-world use of DEX in clinical practice in patients with DME



etim World Congress,Singer et al

Study Design / Methods

- · Prospective, multicenter, observational registry study
- Sudy did not provide, nor require by protocol, any treatment beyond the initial DEX treatment required for registry indusion
- Ocal at history, treatment, and outcomes data were collected at the patient's first DEX injection and each
 subsequent visitup to 1 year
 Assessments and schedule of follow-upvisits at the discretion of the physician
- Amount of data collected depended upon the number of follow-upvisits
- Snellen visual acuity was converted to approximate ETD RS letters for analysis using the method of Gregori et al!

Primary Endpoints

- Mean maximum BCVA change (best improvement) from baseline following each DEX injection Percentage of patients with ≥ 15-letter improvement in BCVA
- Averageimprovement in BCVA (area-under-the-curve [AUC] approach)

Note Congress, Singler et al















	Subgroup Analy	TABLE 3 sis of Key Efficac	y Parameters	
	Mean ± SD Maximu Injection, Letters	im Improvement in	BCVA After Each	Mean ± SD Maximum Improvement in CRT
Subgroup	Injection 1	Injection 2	Injection 3	Across All Months, µm
Baseline Lens Status				
Phakic	8.6 ± 11.5 (n = 52)	8.5 ± 14.8 (n = 29)	$5.2 \pm 17.8 \ (n = 13)$	-120.8 ± 113.5 (n = 42)
Pseudophakic	9.4 ± 11.6 (n = 100)	7.4 ± 11.1 (n = 60)	7.6 ± 12.4 (n = 37)	-142.4 ± 123.9 (n = 85)
Duration of DME				
<1 year	9.7 ± 8.9 (n = 62)	7.8 ± 11.0 (n = 36)	0.5 ± 9.2 (n = 15)	-145.0 ± 121.4 (n = 48)
1-2 years	8.9 ± 12.5 (n = 36)	10.1 ± 10.5 (n = 19)	9.4 ± 10.8 (n = 14)	-118.7 ± 110.0 (n = 31)
>2 years	8.6 ± 12.3 (n = 70)	6.5 ± 13.9 (n = 45)	9.3 ± 15.6 (n = 27)	-142.1 (124.1) (n = 55)
Prior Laser Treatment for DME				
Yes	$10.1 \pm 13.6 \ (n = 56)$	$10.3 \pm 13.0 \ (n = 34)$	$10.7 \pm 14.7 (n=21)$	-134.9 ± 115.6 (n = 35)
No	8.5 ± 9.7 (n = 112)	6.3 ± 11.7 (n = 66)	$4.8 \pm 12.3 \ (n = 35)$	-138.7 ± 121.5 (n = 99)
Intravitreal Treatment During	the Study			
DEX only	9.4 ± 11.7 (n = 92)	7.3 ± 12.7 (n = 51)	$7.9 \pm 14.0 \ (n = 31)$	-134.7 ± 122.8 (n = 74)
DEX and other treatment	8.6 ± 10.5 (n = 76)	$8.0 \pm 12.0 \ (n = 49)$	5.9 ± 12.8 (n = 25)	-141.5 ± 116.4 (n = 60)
History of Vitrectomy				
Yes	12.5 ± 13.3 (n = 48)	12.6 ± 13.7 (n = 27)	$13.1 \pm 14.7 \ (n = 11)$	-159.0 ± 132.5 (n = 37)
No	7.7 ± (9.9) (n = 120)	5.8 ± 11.3 (n = 73)	5.5 ± 12.8 (n = 45)	-129.6 ± 113.9 (n = 97)































Conclusion: Dexamethasone intravit

- Label Infer an accord here
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- Can also used by permise group control or one using a dge y provider import income the all face one y in the second s





Complement Inhibition Is Efficacious, but AEs May Suggest Another Approach Is Needed¹⁻⁴

Trial Drug	↓ in GAvs sham (%)*	Rate of CNV Conversion	Reported AEs
Peg cet ac op lan EOM (24-mon th d ata)	16%-18%b	7%	Increa sed CNV conversion
Peg cet ac op lan EM (24-mon th d ata)	19%-22%b	12%	Inflammation
Ava cin ca pt ad pe go l 2 mg E OM (2 4-mon th d ata)	19%	4%	Ische mic optic neuro path y
Ava cin ca pt ad pe go l 2 mg E M (2 4-mon th d ata)	14%	7%	Occl usive vascu lit is*
Ava cin ca pt ad pe go l 4 m g E M (18-mon th d ata)	3 0%	16%	*Post-mar keting AE with pegcet ato plan in the US (A SRS listsery, July 15, 20 23)

it may increase treatment-as sociated side effects

1. Plat 153 et al. 5 (et al. 7) (2023); 101 (001) (plat 353 023 - 0207 Fine: 3. Ling) (rife, et al. 160 od 2023); 126 (22.0495 - 403.). 3. Aprils Pharma outcais 1 be., 7262 - Analise act http://wrotexis.apdia.org/mena.org/abs.org/abs/2403 - 403.). 4. Xha mink. On Longen Editors 1. American Academy (Ophthalm dgy (AR) Annahm et rig) November 2023.























SIGLEC Phase 2a US Clinical Trial for GA Patt I Demographics & Baseline Data							
	Cohort1 (0.1mg) (N=3)	Cohort 2 (0.5mg) (N=9)	Cohort 3 (1.0mg) (N=9)	Cohort 4 (3.0mg) (N=9)	Tot al (N=30)		
Study Eyes:							
Fem ales n (%)	1 (33.3%)	8 (88.9%)	6 (66.7%)	4 (44.4%)	19 (63.3 %)		
Males n (%)	2 (66.7%)	1 (11.1%)	3 (33.3%)	5 (55.6%)	11 (36.7%)		
Age (Years) (Mean)	74.0	82.7	81.9	81.0	81.1		
BC/A(Mean)	33.7	39.1	37.1	37.3	37.4		
GADDAF Area in mm ² (Mean)	37.7	13.0	15.5	13.5	16.4		
GAP eri-lesion al Ar ea in mm ² (Mean)	0.59	0.64	0.40	0.28	0.46		
Pa tients w/ Mu Itifo cal GALe sions n (%)	3 (100%)	5 (55.6%)	5 (55.6%)	6 (66.7%)	19 (63.3%)		
Fello w Eyes - All Pat ients Had Bilater al GA:							
BC/A(Mean)	59.3	44.7	66.1	52.3	54.9		
GADDAF Area in mm ² (Mean)	28.1	16.3	10.8	10.8	14.3		
GAPeri-lesion al Area in mm (Mean)	0.36	0.17	0.16	0.11	0.17		
Source Upubliked Avlandsdas Nas-J4 patents endet Indiationed GAinbd	Source Dynamic American American American American Americ American American Americ American American A						



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GAP eri-lesion al Ar ea in m m? (Mean)	0.36	0.17	0.16	0.11	0.17	
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AVD-104: A New-Wave Dual-MOA Treatment for GA Repolarizing macrophages and inhibiting complement ov eractivation to target pathobiology in GA

AVD-104(a sialic acid–coated na noparticle) repolarizes overact ivate d macro phages and inhibits over amplified complement system

SIGLEC phase 2 a US dinical trial is completed with Phase 2 ben rollment complete

No AVD-104 drug-related SAEs (ocular or systemic) have be en report ed

In Phase 2 a there is eviden $\varpi\,$ of a beneficial effect of AVD-104 on GA progression and BCVA

GA: The basics of diagnosis and treatment in the real world

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A special thank you for providing formatted slides and images for this presentation

Alexion
Allegro
Alzheon
Annexon
Accelluis

Apell is
 Aviceda

Cognition
 Galimedix

Gaimedix
 Genentech

• Gyroscope (N

Heidelberg Ionis

IvericBio
 Ibinssen

Stealth Therape utics



Topics for today

Introduction

- Demographics and Natural course of disease
 Coding
- Coding
 Imaging
- Early and mid-phase trials
- Phase III
- Safety
- Real-world cases and decisions

Age-Related Macular Degeneration (AMD)

- One of the most common causes of severe, irreversible vision loss
- \bullet Worldwide prevalence: 196 million in 2020 projected to be 288 million in 2040^1
- Approximately 11 million people in US have AMD





Early and Intermediate AMD

• Early (H35.3111, H35.3121, H35.3122)

- characterized by a combination of multiple small drusen, few intermediate drusen (63–124 μm in diameter)

• Intermediate (H35.3112, H35.3122, H35.3132)

extensive medium drusen (63−124 µm in diameter) or one or more large drusen (≥125 µm in diameter) with any pigmentary abnormalities

Advanced AMD

- Extrafoveal (H35.3113, H35.3123, H35.3133)
- Patients usually have good central vision in absence of other pathology
 May have difficulty with near-vision activities
- Fovea-involving (H35.3114, H35.3124, H35.3134) Central vision is often moderately or severely impaired
 approximately 10% of all AMD-related visual loss of 20/200 or worse

- When secondary to age-related macular degeneration (AMD), GA is defined by the presence of sharply demarcated atrophic lesions of the outer retina
- Lesions result from the loss of photoreceptors, retinal pigment epithelium (RPE), and und enlying chorio capillaris
- These anomalies lead to irreversible vision loss











How to Follow Patients with GA

• OCT, OCT, OCT

- Fundus Autofluorescence Photos
- Can use Blue Peak Autofluorescence (but not for clinical trials)
 Fundus Color Photos







How do I identify the Foveal Center?



Ganglion cell complex tapers to a point on either side of foveal center



How do I identify the Foveal Center?



Elongated photoreceptor outer segments "bumping up" elli psoid zone and external limiting membrane





<text><text><image>







Non Foveal Centered GA?



Use OCT!



43894.00

Note loss of outer retinal layers, loss of RPE, and choroidal hypertransmission to right of green arrow

Non Central GA?





Determining Lesion Size: Region Finder





Cavitations: Not CNV



How Do You Manage an Eye That Develops Wet AMD During Ongoing GA Treatment? Stop GA injections and switch to wet-AMD injections Inti 47.2% I GA and wel-AMD treatments on inti 18.7% separate visits US 49.5% ver injections for GA and wet AMD at the same visit Not sure US 8.8% Inti 19.0% n = 1025 Other US 1.9% 0 10 20 30 40 50 60

SYFOVRE (pegcetocoplan) and IZER VAY (avacincaptad pegol)

Real-world clinical challenges

- GA lesion (s) characteristics and treatment risk/benefit
 Siely concens_JO/CWM
 Bilateral GA
 Treat betreys or worse op first?
 Sineday/bia/bea/teatment?
 GA and concintant wet AMD bye treated with anti-VEGF
 Sinul we treat thesepatients?
 Men to breat the GA and when b teat for wet AMD?Sameday? Alternate?
 Patients with his GNG and succoma or history of glauco ma surgery
 Patients with concurrent port delivery system

73 y.o female....mon ocular

BCVA 20/30 OD, CFOS
 Hx untreated CNVM OS w/ disciform scar







87 y.o. female 20/400 od, 20/200 os complaining of worsening vision, and depressed



78	8 y.o retired r	nale; hx wet A	MD OS		
	X		Y		
	Bas elin e	7 months	1 year8 months	2 years 3 months	3 years 4 months
Lesio n area	0. 15 m m ²	0. 27 m m ²	0. 34 m m ²	1. 49 m m ²	5.09 m m ²
Distance to fove a center	10 01 µm	93 5 µm	85 9 µm	57 1 µm	50 3 µm
BCVA	20/30	20/30*	20/40 -1	20 /40 -1	20/40 -1