

ASRS Highlights 2020

Roche Analyst Webcast

South San Francisco, 27 July 2020



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- 4 fluctuations in currency exchange rates and general financial market conditions;
- 5 uncertainties in the discovery, development or marketing of new products or new uses of existing products, including without limitation negative results of clinical trials or research projects, unexpected side-effects of pipeline or marketed products;
- 6 increased government pricing pressures;
- 7 interruptions in production;
- 8 loss of or inability to obtain adequate protection for intellectual property rights;
- 9 litigation;
- 10 loss of key executives or other employees; and
- 11 adverse publicity and news coverage.

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Welcome Karl Mahler *Head of Investor Relations and Group Planning*



Welcome Karl Mahler, Head of Investor Relations and Group Planning

Ophthalmology Strategy Atul Dandekar, Vice President and Global Franchise Head, Ophthalmology

Ophthalmology Pipeline Update

Chris Brittain, Vice President and Global Head of Ophthalmology Product Development

PDS: Archway – Phase III topline results

Dante Pieramici, M.D., Retina Specialist and PDS Clinical Investigator

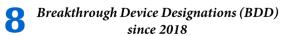
Q&A

Karl Mahler, Head of Investor Relations and Group Planning



Roche significantly advancing patient care *Pivotal trials on track despite difficult environment*

54		Therapy Designations (BTD) since 2013	
Year	Molecule	Indication	
	mosunetuzumab	3L+ FL	
2020	Tecentriq	unresectable or metastatic ASPS	
	Esbriet	ulLD	
	Cotellic	Histiocytic neoplasms	
	Gazyva	Lupus nephritis	
2019	PRM-151	IPF	
	Venclexta + Gazyva	1L unfit CLL	
	Kadcyla	Adjuvant HER2+ BC	
	SPK-8011	Hemophilia A	
	satralizumab	NMOSD	
2018	Xolair	Food allergies	
2018	Tecentriq + Avastin	1L HCC	
	Hemlibra	Hemophilia A non-inhibitors	
	Rozlytrek	NTRK+ solid tumors	
	Polivy + BR	R/R DLBCL	
2017	Venclexta + LDAC	1L unfit AML	
2017	Zelboraf	BRAF-mutated ECD	
	Rituxan	Pemphigus vulgaris	



Year	Device	Intended use
2020	Elecsys GALAD score	early stage HCC
	2020 Elecsys GALAD score Elecsys β-Amyloid + p-Tau Cerebro Spinal Fluid assays sFlt + PLGF 2018 FACT CDx (liquid biopsy assay) cobas EBV	AD: PET concordance AD: Progression
	sFlt + PLGF	Preeclampsia: rule-out within 1w
2018	FACT CDx (liquid biopsy assay)	70 oncogenes + MSI + bTMB
	cobas EBV	EBV in transplant patients
	cobas BKV	BKV in transplant patients
	CoaguChek Direct-X	Patients on Factor Xa

Pivotal trial recruitment finished in HY1 2020

ipatasertib 1L TNBC (Ph III: IPATunity130)	
risdiplam	SMA type 1/2/3 (Ph II: JEWELFISH)
gantenerumab	Alzheimer's disease (Ph III: GRADUATE 1 & 2)
tominersen	Huntington's disease (Ph III: Generation HD1)

New pivotal study starts in HY1 2020

tiragolumab	mNSCLC (Ph III: SKYSCRAPER-01), ES-SCLC (Ph III: SKYSCRAPER-02) Cervical cancer (Ph II: SKYSCRAPER-04)		
PI3Ki	HR+ mBC (Ph III: INAVO120)		
Venclexta+Gazyva	1L fit CLL (Ph III: CristaLLo)		
Actemra	severe COVID-19 pneumonia (Ph III: COVACTA, REMDACTA, EMPACTA)		
0	ncology	Neuroscience	Immunology

Key Diagnostics news flow in HY1 2020

Instruments/Devices	Launch of cobas [®] prime pre-analytical system
Tests/Assays	Launch of SARS-CoV-2 antibody & PCR tests
Software	Launch of v-TAC digital algorithm for blood-gas monitoring

Major pipeline advances and upcoming launches in HY2 2020



Pharma

3 Upcoming NME launches

- risdiplam in SMA
- Enspryng (satralizumab) in NMOSD
- pralsetinib* in RET+ NSCLC; Thyroid cancer

7 Upcoming pivotal trial starts

- SERDi (Ph III 1L HR+ mBC)
- glofitamab (Ph III r/r DLBCL)
- **PRM-151/pentraxin-2** (Ph III IPF)
- Gazyva (Ph III Lupus Nephritis)
- **crovalimab** (Ph III PNH in patients switching from a C5 inhibitor; Ph III PNH in C5 inhibitor-naive patients)
- SRP-9001 (Ph III DMD; run by Sarepta)

Diagnostics

4 Upcoming key launches

- cobas[®] SARS-CoV-2 & Influenza A/B for use on the cobas[®] Liat[®] System
- cobas[®] SARS-CoV-2 & Influenza A/B for use on the cobas[®] 6800/8800 Systems
- SARS-CoV-2 Rapid Antibody test
- Elecsys® Anti-SARS-CoV-2 S

Replace and extend the business: Further milestones achieved



Replace/extend ex	kisting businesses	Entering new franchises	Achievements Q2 2020		
MabThera/Rituxan	Gazyva, Venclexta, Polivy, mosunetuzumab, glofitamab	Oncology: Tecentriq (mUC, TNBC, SCLC, HCC, mM), ipatasertib (mCRPC), SERD (HR+ BC)	Entering new franchisesTecentriq:US approval in 1L HCC (with Avastin)ipatasertib:Positive Ph III (IPATential150) results in patients with PTEN loss tumors in mCRPCEnspryng:First approvals in Canada, Japan, CH in NMOSD		
Herceptin	Perjeta, Kadcyla,	MS: Ocrevus	risdiplam:FIREFISH (SMA) part 2 results in Type 1 patients presented at AANSPARK:2 to 3.3 year follow up efficacy/safety data for OPI/ 00111 http://doi.org/1011111000000000000000000000000000000		
horooptin	Phesgo	Hemophilia A: Hemlibra	SPK-8011 hem A gene therapy presented at IST Replace/extend existing businesses		
Avastin	Tecentriq, Alecensa, Rozlytrek, tiragolumab	CNS: Enspryng (NMOSD), risdiplam (SMA), tominersen (Huntington), gantenerumab (AD),	Phesgo:US approval for P+H FDC-SCtiragolumab:Randomized Ph II data presented at ASCO;Ph III trials in 1L NSCLC and 1L SCLC initiatedSERD:Clinical data showing excellent efficacy /safety profile presented at ASCO		
Lucentis	Port delivery system (PDS) faricimab	SRP-9001 (DMD) Immunology:	glofitamab: Ph Ib data presented at EHA; Ph III in 2L+ DLBCL initiated mosunetuzumab: BTD designation in 3L+ FL awarded		
Tamiflu	Xofluza	etrolizumab (UC, CD), Gazyva (lupus nephritis)	PDS: Positive Ph III (ARCHWAY) results in nAMD		

mUC=metastatic urothelial carcinoma; TNBC=triple negative breast cancer; SCLC=small cell lung cancer; HCC=hepatocellular carcinoma; mM=metastatic melanoma; mCRPC=metastatic castration resistant prostate cancer; BC=breast cancer; NMOSD=neuromyelitis optica spectrum disorder; SMA=spinal muscular atrophy; AD=Alzheimer's disease; DMD=duchenne muscular dystrophy; UC=ulcerative colitis; CD=Crohn's disease; NSCLC=non-small cell lung cancer; FDC=fixed dose combination; NSCLC=non-small cell lung cancer; DLBCL=diffuse large B-cell lymphoma; FL=follicular lymphoma; nAMD=neovascular age-related macular degeneration



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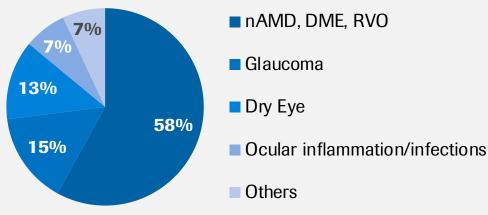
Karl Mahler, Head of Investor Relations and Group Planning

Retina is the fastest growing segment of the Ophthalmology market



Ophthalmology market Retinal vascular diseases remain leading causes of vision loss

Total Market (2019) - \$21.5 Billion

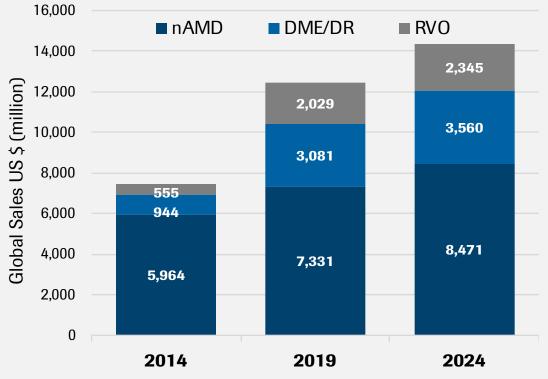


Leading causes of vision loss in US, Europe:

- Working-age people: Diabetic eye disease (DME, DR)
- Elderly people: Neovascular AMD

Global Retina Landscape:

Market growth driven by aging population and product innovation

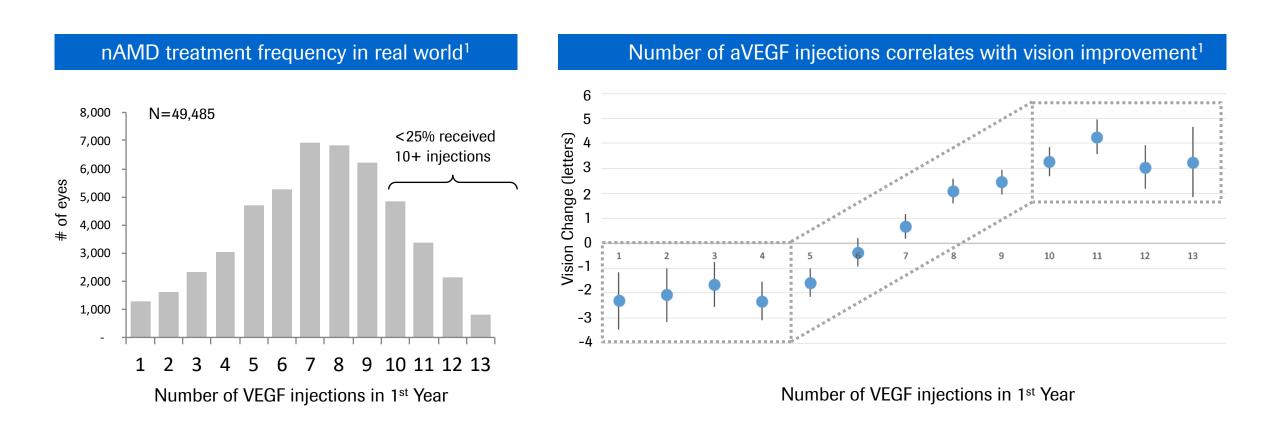


Source: Evaluate Pharma for historic sales and branded forecasts, Decision Resources for biosimilar forecasts (6/2020)

Source: Evaluate Pharma (April 2019)

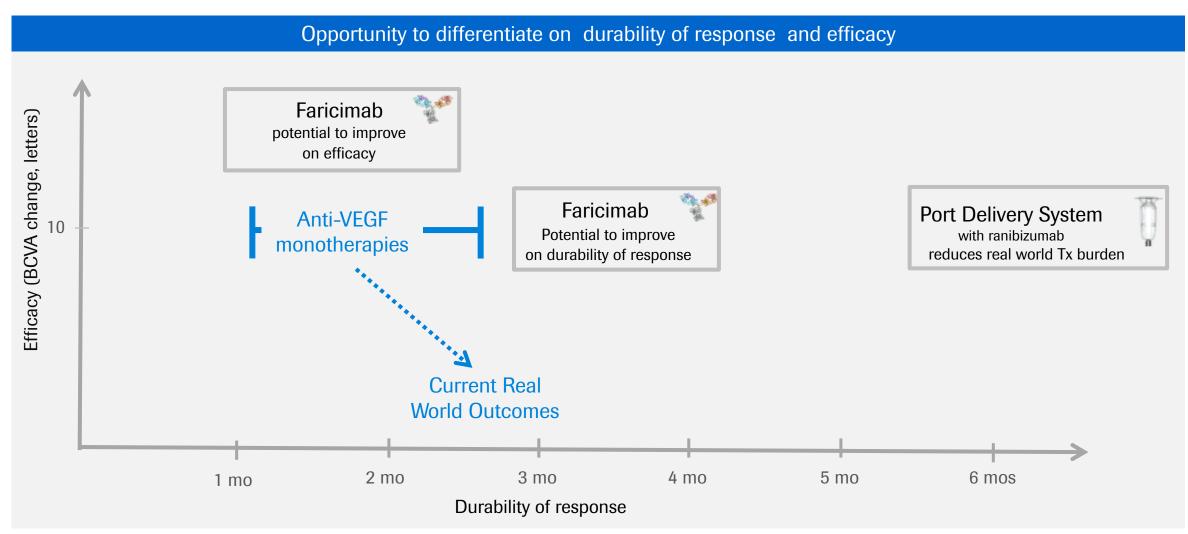
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Real world outcomes with anti-VEGF intravitreal injections have significant room for improvement





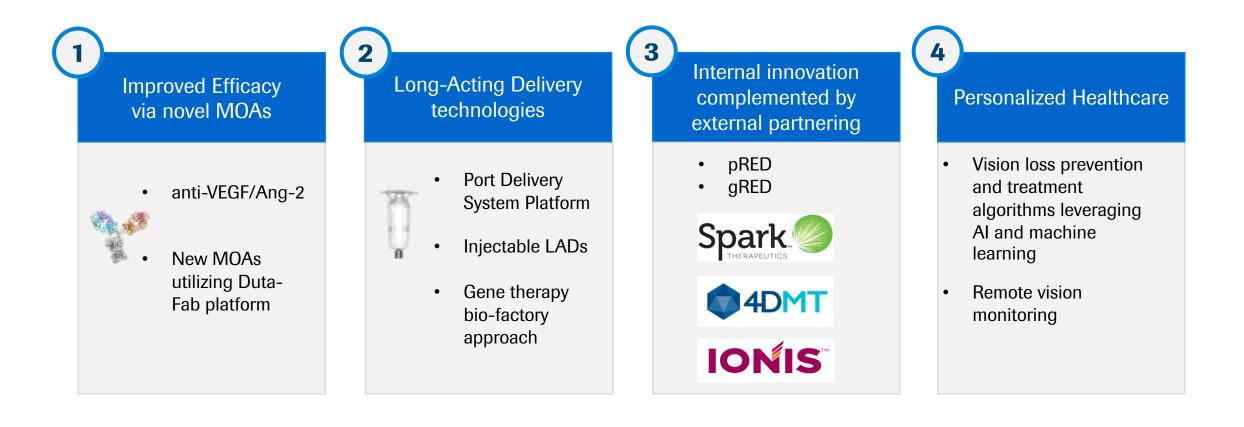
PDS and Faricimab potentially address key unmet needs



For illustrative purposes only

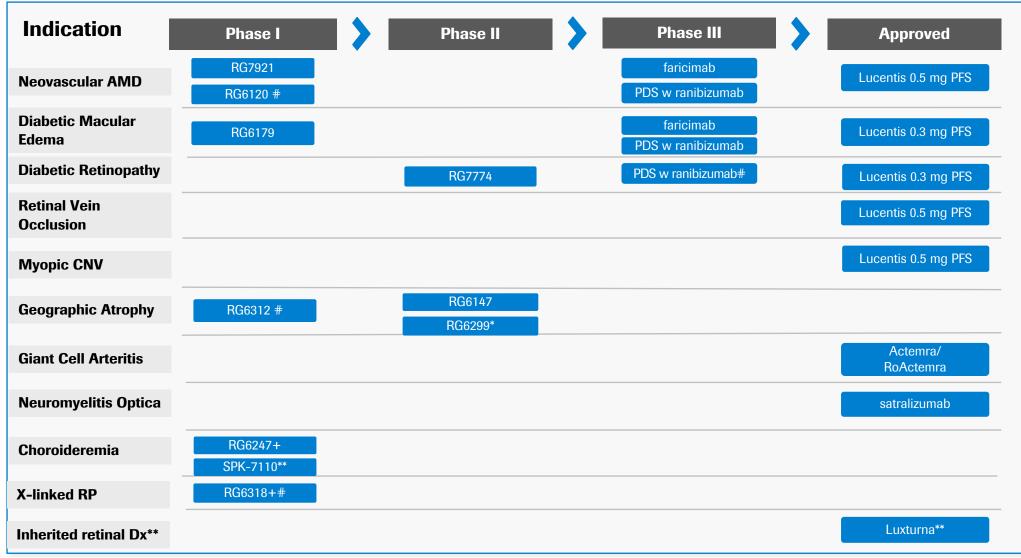
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Roche Ophthalmology strategy has four strategic levers



Roche Ophthalmology pipeline

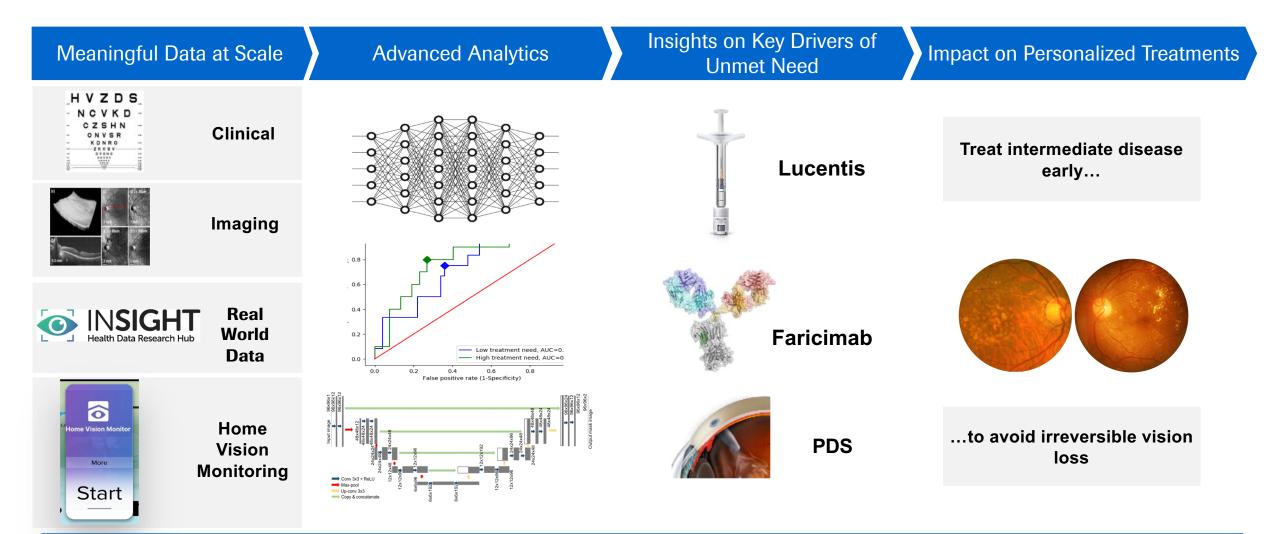
Focus on retinal disorders: nAMD, DME/DR and GA



Status as of July 2020. PFS, Prefilled Syringe; Lucentis PFS is marketed by Novartis outside the U.S.; RP= retinitis pigmentosa; * Study conducted by lonis, Roche has option to in-license; * Study conducted by 4DMT, Roche has option to in-license; #Studies planned to start in 2020 subject to the COVID situation; **with Spark Therapeutics, approved for patients with biallelic *RPE65* mutation-associated retinal dystrophy

Preservation of vision with Personalized Healthcare (PHC) *Remote monitoring & advanced analytics to help treat vision loss early*

Koch



Ultimate Goal to TREAT VISION LOSS and PRESERVE VISION

Roche Ophthalmology strategy execution is on track *Pivotal readouts in 2020*



- Faricimab DME and nAMD data anticipated Dec 2020 / Jan 2021
- PDS nAMD Ph3 study met primary endpoint Non-inferior and equivalent to monthly Lucentis

Late stage

Pipeline

- PDS DME study underway, DR study planned
 - 3 NMEs in Ph2 clinical development
 - 7 Ph1 programs underway including gene therapies
 - Positive PDS Ph3 has enabled acceleration of Dutafab platform and early pipeline
 - Partnering Extensive partnering effort focused on strategic indications and platforms
- Ophthalmology PHC
- Demonstrated PoC utilizing internal algorithms in disease detection, prediction of progression and response to treatment
- Focus on Remote Monitoring, Digital Vision tools & Algorithm Validation
- Home Vision Monitoring pilot with Moorfields to support patients during COVID-19



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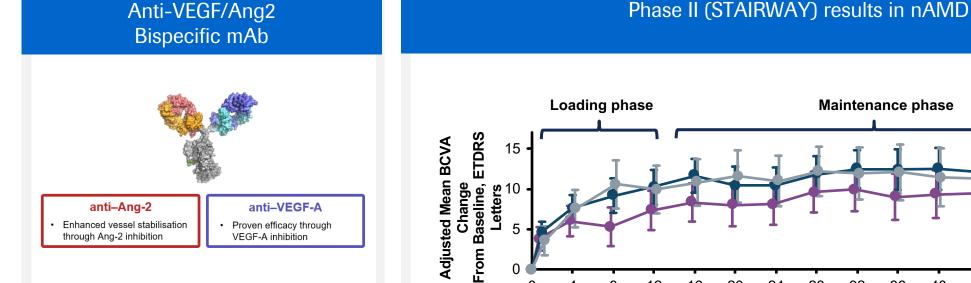
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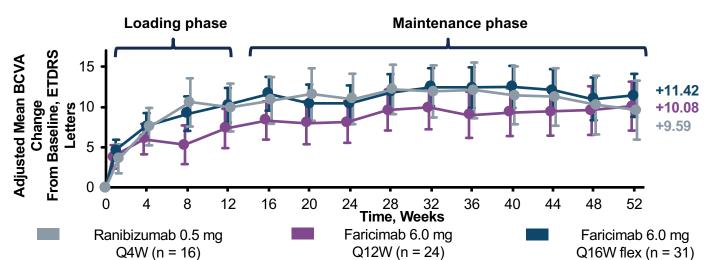
Faricimab in nAMD



Potential to stabilize retinal vasculature and improve treatment durability



- First bispecific antibody in ophthalmology binding simultaneously to VEGF and Angiopoietin2 (Ang2)
- Ang2 inhibition could improve vascular stability and reduce retinal inflammation

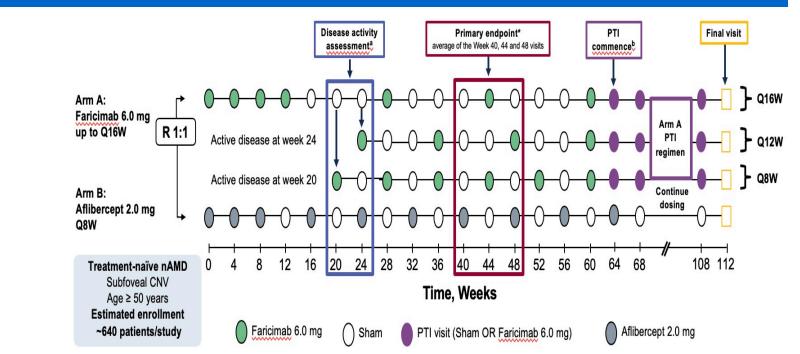


- BCVA Gains With Faricimab Q16W Flex and Q12W Comparable With Ranibizumab Q4W
- 12 Weeks After Last Faricimab Loading Dose, 65% of Patients Had No Disease Activity, and Could Potentially Benefit From Q16W Dosing
- Phase III nAMD data expected Jan 2021

Phase 3 faricimab development program in nAMD *Robust global studies to assess efficacy, safety and durability*

TENAYA and **LUCERNE**

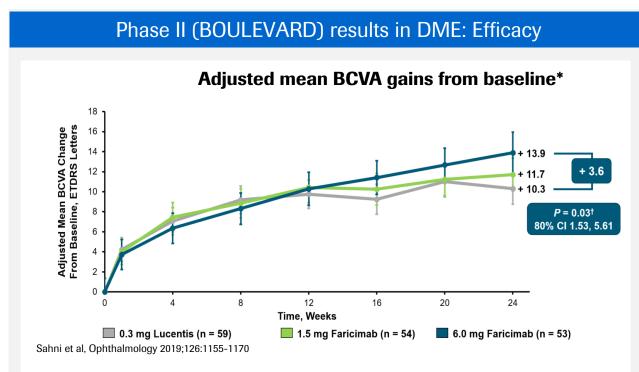
- 2 randomized, global, multicenter, phase 3 trials
- N = 640 per study
- **Primary Study Objective:** Mean BCVA change from baseline at Week 48 as an average of Weeks 40, 44 and 48
- **Key Secondary Objective:** Proportion of patients on a Q8W, Q12W, or Q16W treatment interval
- Personalized treatment arm to assess durability of response



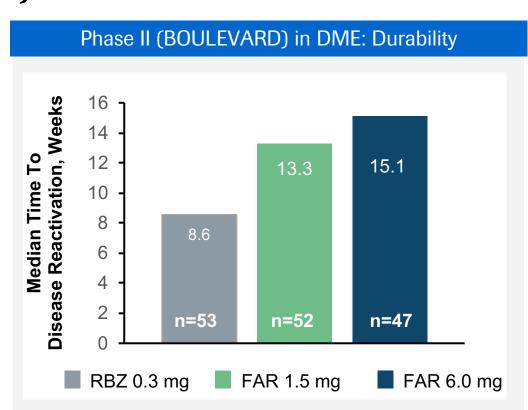
^{*}Change from baseline in BCVA, as measured on the ETDRS chart at a starting distance of 4 meters, based on an average of the Week 40, 44, and 48 visits. ^a Protocol-defined assessment of disease activity at week 20 and 24. Patients with anatomic or functional signs of disease activity at these timepoints will receive Q8W or Q12W, respectively. ^b PTI: IxRS-guided flexible dosing in faricimab arms starting at Week 60. From Week 60 onward, patients in Arm A will be treated according to a PTI dosing regimen between Q8W and Q16W. ClinicalTrials.gov. TENAYA study information. https://clinicaltrials.gov/ct2/show/NCT03823287 [last accessed Feb 2020]; ClinicalTrials.gov. LUCERNE study information. https://clinicaltrials.gov/ct2/show/NCT03823287 [last accessed Feb 2020]; ClinicalTrials.gov. LUCERNE study information. https://clinicaltrials.gov/ct2/show/NCT03823287 [last accessed Feb 2020]; ClinicalTrials.gov. LUCERNE study information. https://clinicaltrials.gov/ct2/show/NCT03823287 [last accessed Feb 2020]; ClinicalTrials.gov. LUCERNE study information. https://clinicaltrials.gov/ct2/show/NCT03823287 [last accessed Feb 2020]; ClinicalTrials.gov. LUCERNE study information. https://clinicaltrials.gov/ct2/show/NCT03823300 [last accessed Feb 2020].

BCVA, best-corrected visual acuity; CNV, choroidal neovascularization; nAMD, neovascular age-related macular degeneration; PTI, personalized treatment interval as specified in study protocol; Q4W, every 4 weeks; Q12W, every 12 weeks; Q16W, every 16 weeks; R, randomized.

Faricimab in DME *Potential to improve efficacy and durability*



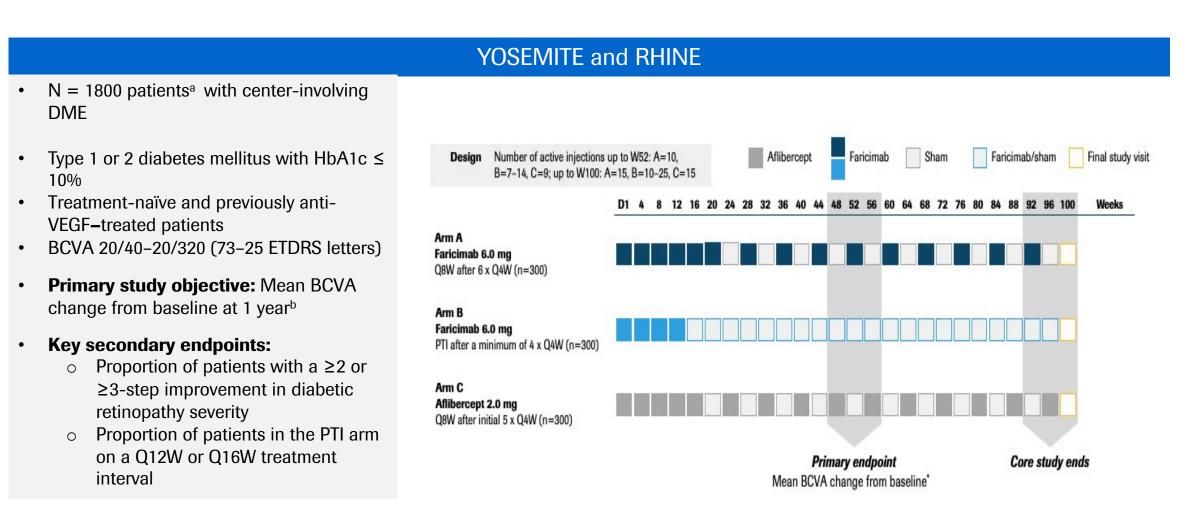
- Robust BCVA gains with a mean of +13.9 letters gained from baseline
- In addition, a statistically significant gain of +3.6 letters over Lucentis
- Phase III DME data expected Dec 2020



- Durability shown with median time to disease reactivation 15.1 weeks for faricimab vs 8.6 weeks for Lucentis after treatment cessation
- RVO program initiating Q2 2021

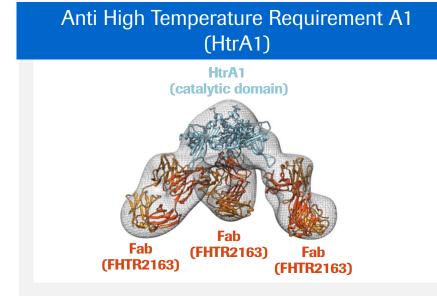


Phase 3 faricimab development program in DME *Robust global studies to assess efficacy, safety and durability*

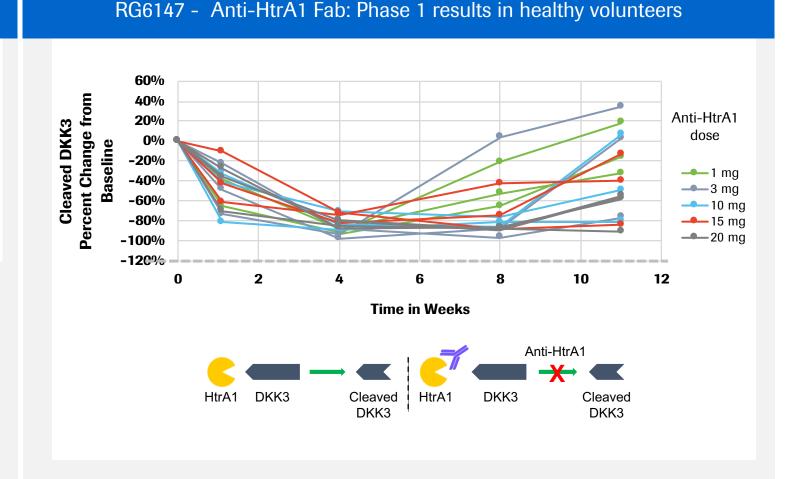


^a Patients will be randomized 1:1:1 into 3 arms. ^b BCVA at 1 year will be measured on the ETDRS chart at a starting distance of 4 meters. Optical coherence tomography image of baseline DME from BOULEVARD clinical trial (NCT02699450). YOSEMITE clinical trial (NCT03622580); RHINE clinical trial (NCT03622593). BCVA, best-corrected visual acuity; DME, diabetic macular edema; ETDRS, Early Treatment Diabetic Retinopathy Study; HbA1c, glycated hemoglobin; Q8W, every 8 weeks; R, randomized; VEGF, vascular endothelial growth factor. PTI=Personalized Treatment Interval

Continuing to Study Treatments for GA Secondary to AMD *Phase 2 anti-HtrA1 study currently enrolling*

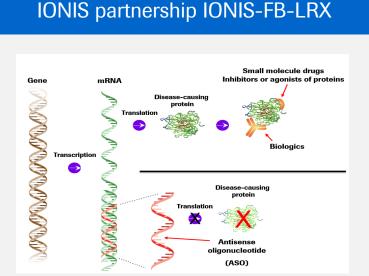


- ARMS2-HtrA1 is the top genetic locus for AMD risk
- HtrA1, a serine protease, breaks down extracellular matrix protein, resulting in retinal atrophy
- Well tolerated in Phase 1 GA study supporting Q4W and Q8W dosing in Phase 2



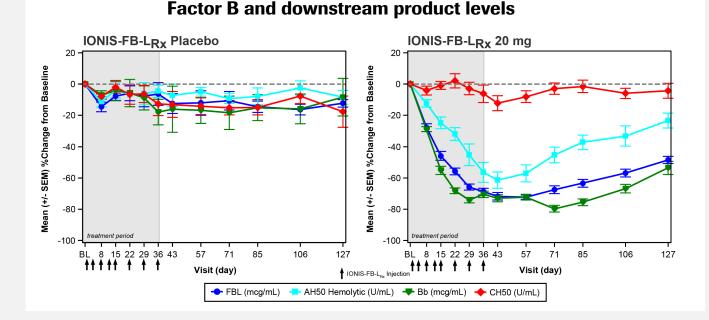
AH50, complement alternative pathway; AMD, age-related macular degeneration; Bb, carboxyl-terminal of factor B after cleavage; CH50, total haemolytic complement; FBL, factor B levels; GA, geographic atrophy; Q4W, every 4 weeks; RPE, retinal pigment epithelium; SEM, standard error of the mean

Continuing to Study Treatments for GA Secondary to AMD *Partnering to evaluate novel treatments*



- Antisense oligonucleotide inhibiting complement factor B in the liver (source of complement factor B)
- Modulates complement in RPE, Bruch's membrane, and choriocapillaris
- Q4W SC injection to treat both eyes

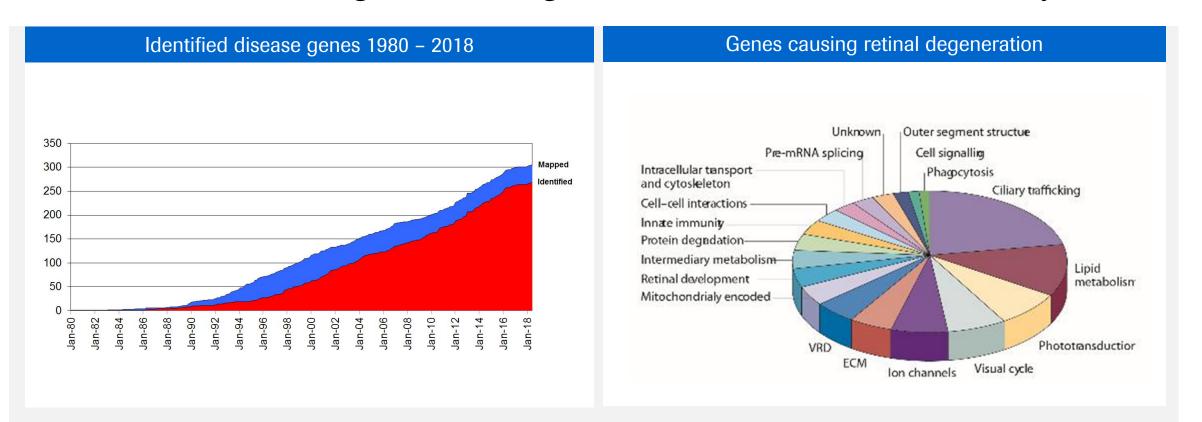




AH50, complement alternative pathway; AMD, age-related macular degeneration; Bb, carboxyl-terminal of factor B after cleavage; CH50, total haemolytic complement; FBL, factor B levels; GA, geographic atrophy; Q4W, every 4 weeks; RPE, retinal pigment epithelium; SEM, standard error of the mean



Potential for gene therapy in ophthalmology *To date more than 270 genes causing retinal disease have been identified*



- To date, there over 270 identified genes that cause retinal disease
- Over 95% of the identified gene mutations initially result in death of rod photoreceptors

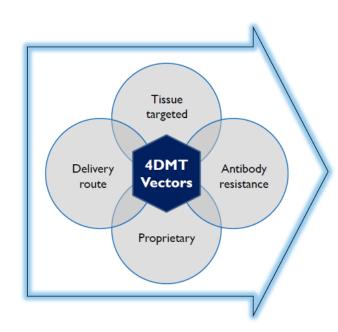


Next generation Retinal Gene Therapy Safe procedure for transducing across the entire retina

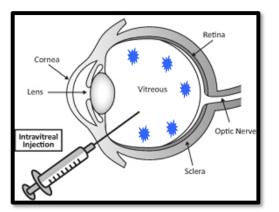
Cornea Lens Subretinal Injection Cornea Vitreous Optic Nerve Sclera

First-Gen Gene Therapy

- Subretinal injection
- Challenging procedure
- Complications include retinal detachment and scarring
- · Limited area of transduction



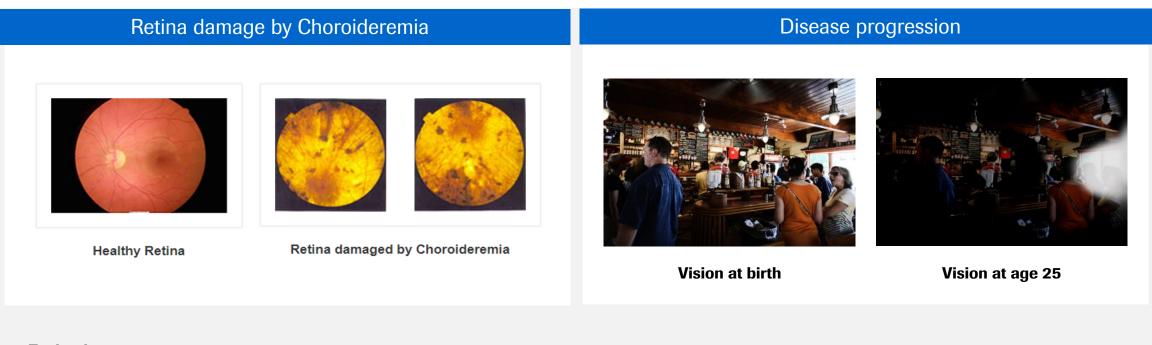
Next-Gen Gene Therapy



- Intravitreal injection is standard for retinal specialists
- Safe procedure
- Transduction across entire retina
- Potential to treat early stage patients

Gene therapy (4D-110) in partnership with 4DMT *Choroideremia - A rare inherited disorder leading to blindness*





Technology

4DMT technology optimized AAV vectors for retinal transfection after intravitreal injection

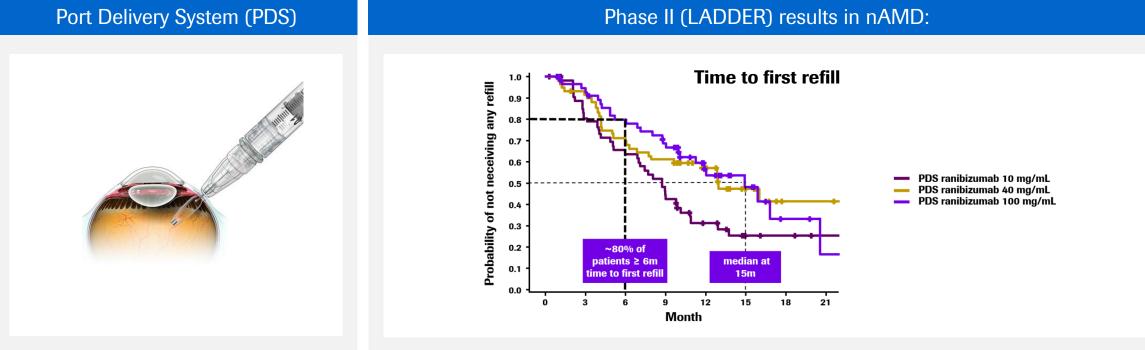
Disease - Choroideremia

- X-linked recessive disease (incidence rate: 1:50,000 males)
- Loss of function mutation in CHM gene which encodes REP1 involved in lipid modification of Rab GTPases
- Cell death & gradual deterioration of retinal pigment epithelium, photoreceptors and choroid leads to loss of peripheral vison then central vision

Clinical development 4D-110

- Ph1 study to be initiated in 2020
- Additional monogenetic diseases targeted

Port Delivery System (PDS) with ranibizumab *Reduces treatment burden, addresses key unmet need in nAMD*



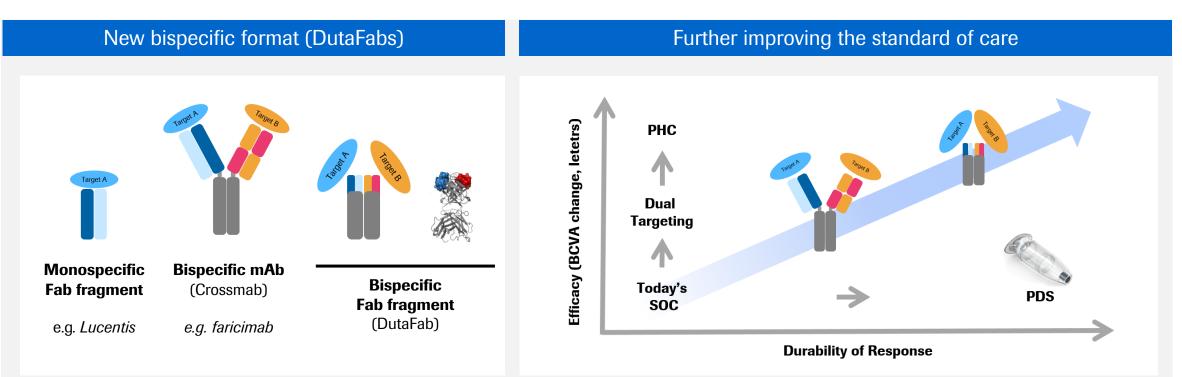
- Refillable intraocular implant using proprietary needle assembly
- In-office refills
- Customized formulation of ranibizumab

- Median Time to First Refill at 15months, 80% patients ≥ 6m time to first refill
- Ph III (Archway) in nAMD at fixed Q6M dosing presented at ASRS 2020
- Ex-US rights to PDS with ranibizumab acquired from Novartis
- New indications, new MOAs in PDS planned to leverage platform technology
- Phase III (Pagoda) in DME is currently on-going

Port Delivery System with DutaFabs



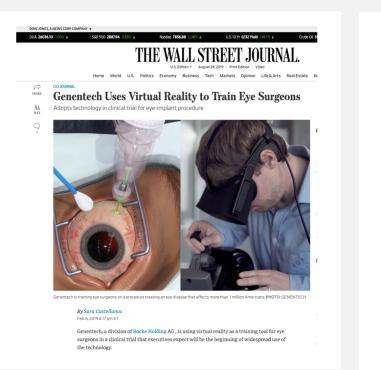
Next generation bispecifics designed for increased efficacy & durability



- DutaFabs are a noval bispecific Fab format significantly smaller than bispecific antibodies
- DutaFabs are compatible with the Port Delivery System enabling increased durability beyond Q6M
- 3 DutaFabs are in pre-clinical development targeting different MOAs



Port Delivery System *Virtual reality training of the surgeons*







- PDS University enables procedural standardization to ensure consistency in outcomes and enhance patient experience
- Virtual reality (VR) technology enables preoperative training of surgeons on PDS procedures (implant insertion and refill)
- Ph III trial (ARCHWAY) represents the first use of VR surgical training in an ophthalmic clinical trial
- Field-based Surgical Device Liaisons (SDLs) support training on site, and facilitate peer to peer discussion and education



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Primary Analysis Results of the Phase 3 Archway Trial of the Port Delivery System With Ranibizumab for Patients With Neovascular AMD

Originally presented at the 38th Annual Scientific Meeting of the American Society of Retina Specialists – July 26, 2020

Peter Campochiaro, MD¹; Natasha Singh, PharmD²; David Kardatzke, PhD²; Steven Blotner, PhD²; Shienal Patel, BSc²; and Giulio Barteselli, MD²

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Disclosures



Financial Disclosures

- PC: Advisory Board: Advisory Board, Honoraria: Aerpio, Allegro, Applied Genetic Technologies Corporation, Exonate, Genentech, Inc., Merck; Consultant, Honoraria: Alimera, Allergan, Applied Genetic Technologies Corporation, AsclepiX, Astellas, Exonate, Genentech, Inc., Graybug Vision, Merck, Novartis, Perfuse, Wave Life Sciences; Stockholder, Stock: Allegro, Graybug Vision; Investigator, Grants: Aerpio, Alimera, Allegro, Allergan, AsclepiX, Genentech, Inc., Graybug Vision, Oxford Biomedica, Regeneron, Regenxbio, Sanofi Genzyme
- DP: Research Funding: Allegro, Appelis, Gemini, Genentech, , Kodiac, Novartis, Adverum, Regeneron, Regenx Bio, Stealth, Ionis, California Retina Research Foundation, Greybug, Astellas; Consultant: Genentech, Regeneron, Adverum, Gemini, Novartis, Allegro, Kodiac, Regenx, Adverum
- NS, DK, SB, SP, GB: Employee, Equity: Genentech, Inc.

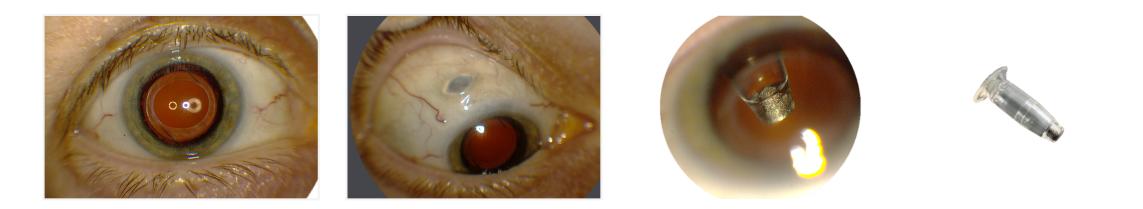
Study Disclosures

- This study includes research conducted on human subjects
- Institutional Review Board approval was obtained prior to study initiation
- Funding was provided by Genentech, Inc., a member of the Roche Group, for the study and third-party writing assistance, which was provided by Betsy C. Taylor, PhD, CMPP, of Envision Pharma Group



The Port Delivery System With Ranibizumab (PDS)

Continuous intravitreal delivery of a customized formulation of ranibizumab



Innovative, investigational drug delivery system

- Permanent, refillable intraocular implant
- A novel, customized formulation of ranibizumab
- Implant surgically placed at the pars plana
- In-office refill-exchange procedures

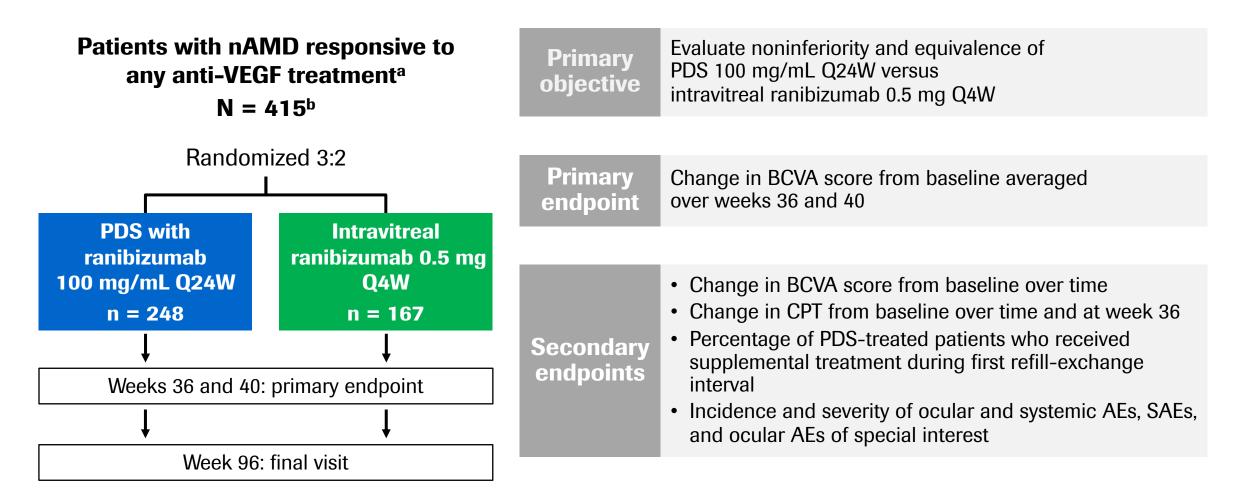
Ladder phase 2 trial of the PDS for nAMD

- PDS 100 mg/mL vision and anatomic outcomes comparable with monthly ranibizumab 0.5 mg
- PDS was generally well tolerated
- Supported evaluation in Archway phase 3 trial



Archway

Archway: Designed to Evaluate the Efficacy and Safety of the PDS for the Treatment of nAMD

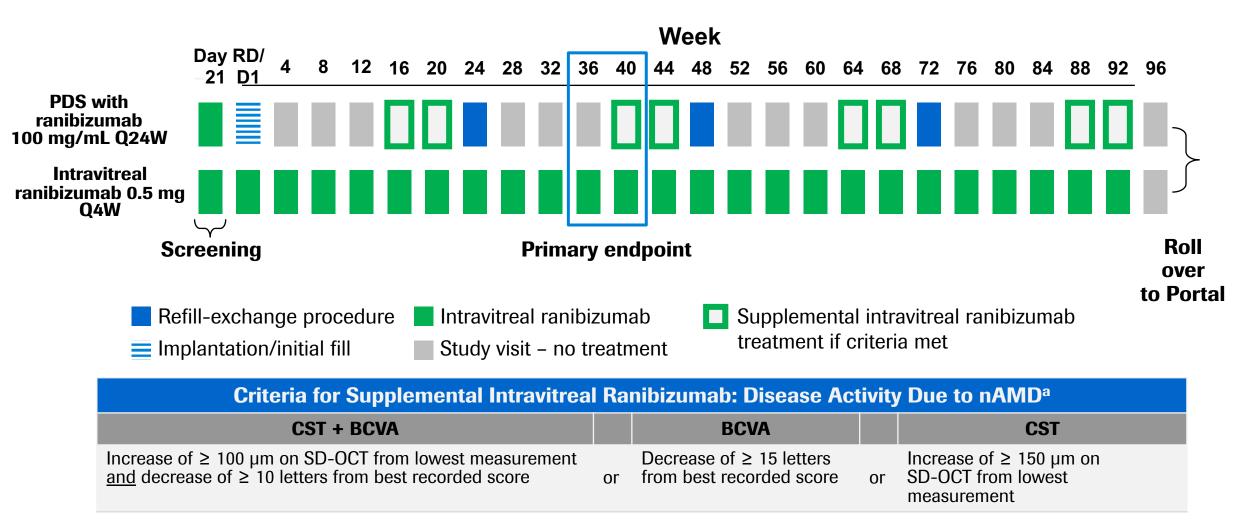


^a nAMD in study eye diagnosed within 9 months of screening; ≥ 3 intravitreal injections of any anti-VEGF agent within previous 6 months. ^b Efficacy- and safety-evaluable population. 418 total patients were enrolled, with 251 and 167 patients randomized to the PDS 100 mg/mL Q24W and intravitreal ranibizumab 0.5 mg Q4W arms, respectively; 3 patients in the PDS arm did not receive study treatment and were excluded from the efficacy- and safety-evaluable population. Archway, NCT03677934. AE, adverse event; BCVA, best-corrected visual acuity; CPT, center point thickness; nAMD, neovascular age-related macular degeneration; PDS, Port Delivery System with ranibizumab; Q4W, every 4 weeks; Q24W, every 24 weeks; SAE, serious adverse event; VEGF, vascular endothelial growth factor.

Archway Treatment Regimen: PDS With Fixed 24-Week Refill-Exchanges



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^a Eligible for supplemental intravitreal ranibizumab treatment with open-label intravitreal ranibizumab at weeks 16 and 20 (after implant insertion) and at weeks 40, 44, 64, 68, 88, and 92 if any of the 3 criteria were met. BCVA, best-corrected visual acuity; CST, central subfield thickness; D, day; nAMD, neovascular age-related macular degeneration; PDS, Port Delivery System with ranibizumab; Q4W, every 4 weeks; Q24W, every 24 weeks; Archway RD, randomization; SD-OCT, spectral domain optical coherence tomography.

Baseline Demographics and Ocular Characteristics Were Well Balanced Across Treatment Arms

Characteristic	PDS With Ranibizumab 100 mg/mL Q24W (n = 248)	Intravitreal Ranibizumab 0.5 mg Q4W (n = 167)
Age, years		
Mean (SD)	75.2 (8.1)	74.8 (7.6)
Range	51–96	54-89
Sex, n (%)		
Male	41.5	40.1
Baseline BCVA, ETDRS letter score		
Mean (SD)	74.4 (10.5)	75.5 (10.3)
Snellen equivalent	20/32	20/32
Baseline CPT, µm		
Mean (SD)	176.9 (54.8)	177.2 (49.1)
Time since nAMD diagnosis, months		
Mean (SD)	5.9 (9.5)	5.3 (2.0)
Number of prior anti-VEGF injections		
Mean (SD)	5.0 (2.1)	5.0 (1.5)

- Baseline BCVA in Archway was assessed after a mean of 5 anti-VEGF injections •
- 98% study retention through week 40; no impact due to COVID-19 •

BCVA, best-corrected visual acuity; CPT, center point thickness; ETDRS, Early Treatment Diabetic Retinopathy Study; nAMD, neovascular age-related macular degeneration; PDS, Port Delivery System with ranibizumab; Q4W, every 4 weeks; Q24W, every 24 weeks; VEGF, vascular endothelial growth factor.



Archway



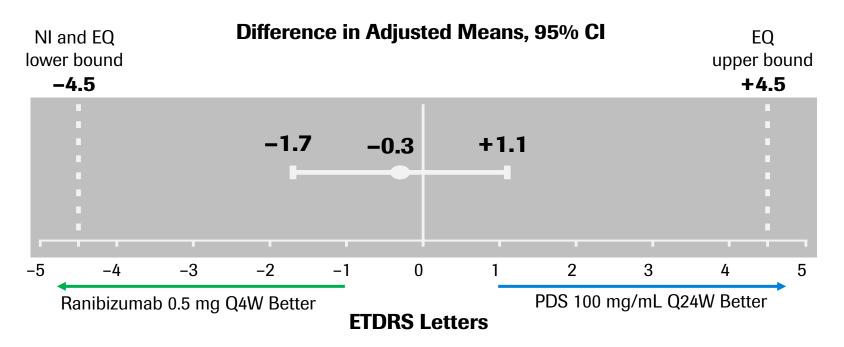
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^{*;} CPT measured from inner limiting membrane to the inner third of the retinal pigment epithelium.

Primary Endpoint: PDS Q24W Was Noninferior and Equivalent to Monthly Ranibizumab



Change in BCVA From Baseline Averaged Over Weeks 36 and 40, ETDRS Letters	PDS With Ranibizumab 100 mg/mL Q24W (n = 248)	Intravitreal Ranibizumab 0.5 mg Q4W (n = 167)	Difference in Adjusted Means
Adjusted mean (95% CI)	+0.2 (-0.7, +1.1)	+0.5 (-0.6, +1.6)	-0.3 (-1.7, +1.1)

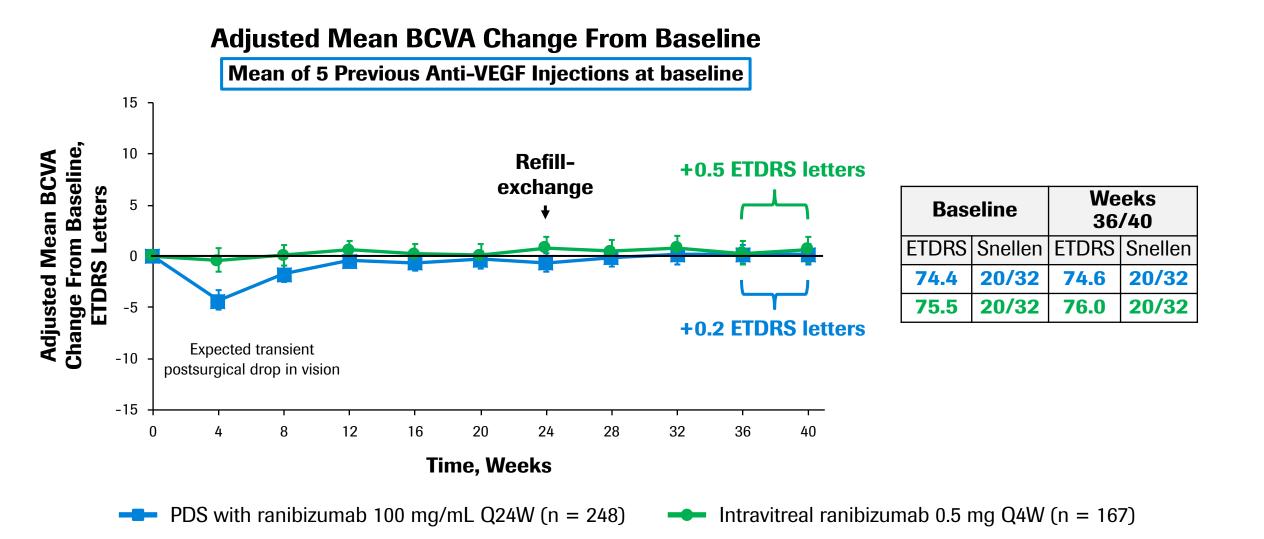


Patients received a mean of 5.0 anti-vascular endothelial growth factor injections before baseline. 95% Cl is a rounding of 95.03% Cl; the type 1 error was adjusted for interim safety monitoring. Adjusted means estimated using a mixed-effect model for repeated measures with adjustment for change from baseline in BCVA as the response and included terms for treatment group, visit, treatment-by-visit interaction, and baseline BCVA (< 74 ETDRS letters vs ≥ 74 ETDRS letters). The protocol-specified noninferiority lower bound margin was 4.5 letters and the equivalence margin was ± 4.5 letters. BCVA, best-corrected visual acuity; EQ, equivalence; ETDRS, Early Treatment Diabetic Retinopathy Study; NI, noninferiority; PDS, Port Delivery System with ranibizumab; Q4W, every 4 weeks; Q24W, every 24 weeks.



PDS Q24W Maintained Vision Over 40 Weeks



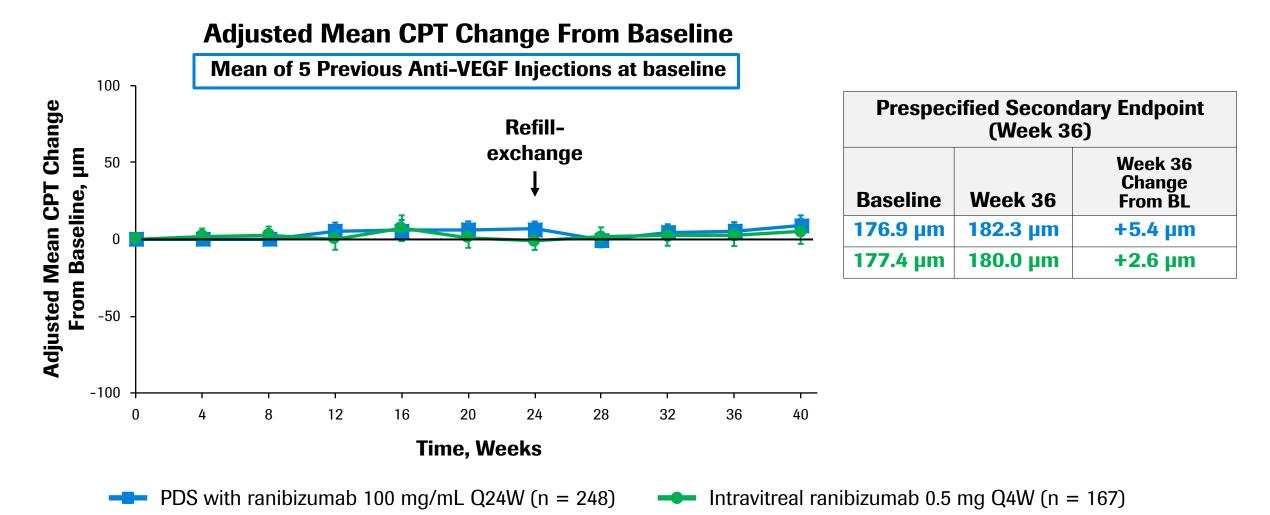


Adjusted means from a mixed-effect model for repeated measures (MMRM) analysis and vertical bars represent 95% CI. 95% CI is a rounding of 95.03% CI; the type 1 error was adjusted for interim safety monitoring. Adjusted means estimated using a MMRM with adjustment for change from baseline in BCVA as the response and included terms for treatment group, visit, treatment-by-visit interaction, and baseline BCVA (< 74 ETDRS letters vs ≥ 74 ETDRS letters). BCVA, best-corrected visual acuity; ETDRS, Early Treatment Diabetic Retinopathy Study; PDS, Port Delivery System with ranibizumab; Q4W, every 4 weeks; Q24W, every 24 weeks; VEGF, vascular endothelial growth factor.



PDS Controlled Retinal Thickness Through Week 40 Similar to Monthly Ranibizumab





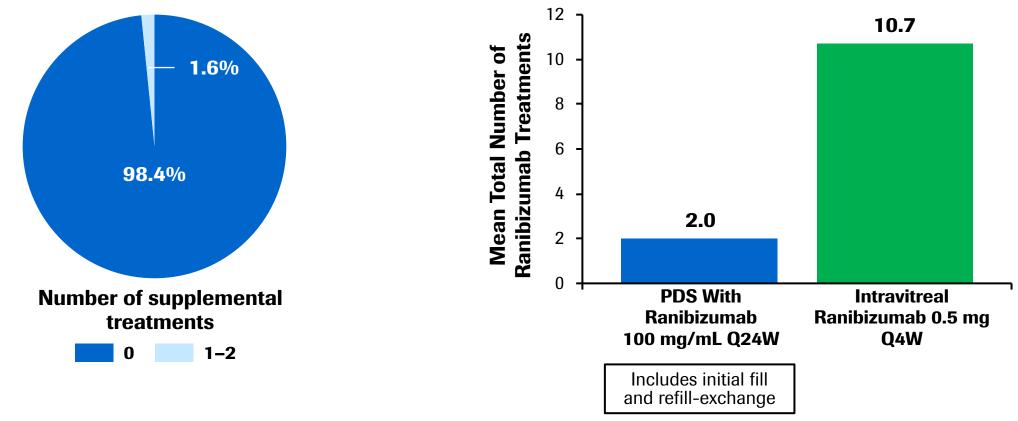
CPT defined as retinal thickness in the center of the fovea measured between the inner limiting membrane and the inner third of the retinal pigment epithelium layer. Adjusted means were estimated using a mixed-effect model for repeated measures with adjustment for change from baseline in CPT score as the response and included terms for treatment group, visit, treatment-by-visit interaction, and baseline best-corrected visual acuity (< 74 Early Treatment Diabetic Retinopathy Study [ETDRS] letters vs ≥ 74 ETDRS letters).

BL, baseline; CPT, center point thickness; PDS, Port Delivery System with ranibizumab; Q4W, every 4 weeks; Q24W, every 24 weeks; VEGF, vascular endothelial growth factor.



~98% of PDS-Treated Patients Did Not Receive Supplemental Treatment During First Refill-Exchange Interval

Percentage of PDS Patients Who Received Supplemental Treatment Before First Refill-Exchange at Week 24 Total Number of Ranibizumab Treatments Through Week 40^{a,b}



^a Total number of ranibizumab treatments includes initial fill, refill-exchanges, and supplemental intravitreal ranibizumab 0.5 mg injections in PDS-treated patients and all intravitreal ranibizumab 0.5 mg injections in patients in the intravitreal ranibizumab 0.5 mg Q4W arm. ^b Includes PDS patients who received supplemental treatment at weeks 16 and 20 (first refill-exchange interval) and week 40 (second refill-exchange interval). Patients could also receive supplemental treatment at week 44 for the second refill-exchange interval; week 44 data not included in this analysis. PDS, Port Delivery System with ranibizumab; Q4W, every 4 weeks; Q24W, every 24 weeks.



Ocular Adverse Events of Special Interest^a



Archway

PDS insertion and refill-exchange procedures were generally well tolerated

	PDS With Ranibizumab 100 mg/mL Q24W (n = 248)			Intravitreal Ranibizumab 0.5 mg Q4W (n = 167)
	Time From Surgery			
MedDRA Preferred Term, n (%) ^b	≤ 1 Month	> 1 Month	Total ^c	Totalc
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 ^d	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 resolved sp 1 of 248 PDS-treated patients had irreversibl <i>faecalis</i> endophthalmitis) 1 PDS patient experienced device dislocation procedure; following removal, the patient's v 3/4 endophthalmitis patients had vision return treatment 	e vision loss due to an adverse n into the eye during a refill-exc ision returned to baseline	 event (E. Conjunctival b non-serious 9 cases of cor coverage of in 	bleb was predominantly conjun	achment repaired with vitrectomy ctival thickening; all cases classified as are addressed with flap revisions or ness cornea ases of traumatic cataract

^a Protocol-defined ocular adverse events of special interest potentially related to the PDS implant or implant procedure. ^b Frequency counts by preferred term. Multiple occurrences of the same adverse event in in an individual are counted only once for each column. ^c All data through week 40. ^d Includes the following terms: cataract, cataract nuclear, cataract cortical, cataract subcapsular. Observed data, all treated patients who received \geq 1 dose of study drug according to the actual treatment. Month 1 visit includes data up to 37 days (monthly study visit + 7 days).

MedDRA, Medical Dictionary for Regulatory Activities; PDS, Port Delivery System with ranibizumab; Q4W, every 4 weeks; Q24W, every 24 weeks.

Serious Nonocular AEs Through Week 40



Systemic safety of PDS Q24W was generally comparable with monthly ranibizumab

MedDRA Preferred Term, n (%)	PDS With Ranibizumab 100 mg/mL Q24W (n = 248)	Intravitreal Ranibizumab 0.5 mg Q4W (n = 167)
Total number of patients with \geq 1 AE	28 (11.3%)	16 (9.6%)
Overall total number of AEs	36	24
Pneumonia ^a	3 (1.2%)	0
Urinary tract infection	2 (0.8%)	1 (0.6%)
Cerebrovascular accident	3 (1.2%)	1 (0.6%)
Syncope	0	2 (1.2%)
Pancreatitis	2 (0.8%)	0
Chest pain	0	2 (1.2%)
Acute respiratory failure	2 (0.8%)	0

None of the serious nonocular AEs were suspected to be related to study treatment



The PDS Patient Preference Questionnaire (PPPQ)

Roche

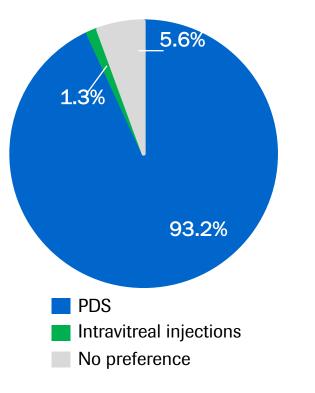
- The PPPQ was administered to all patients in the PDS arm at week 40
- The PPPQ is a 3-item questionnaire that captures a **patient's preference** for treatment, the **strength of their preference**, and the **reasons for their preference**

 Which method of administration did you prefer? Intravitreal injections. Port Delivery System No preference
2) If you have a preference for one of the administration routes, how strong is this preference?
Very strong
 3) If you have a preference for one of the administration routes, what are the main reasons for your preference? Please choose all that apply: Less worry or nervousness Requires less time for treatment Less discomfort Fewer treatments Other reason

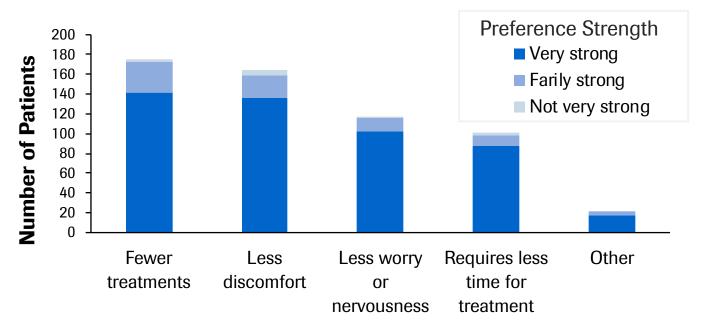
93% of PDS Patients Preferred PDS over Intravitreal Injections

Responses to the PPPQ at Week 40^a

Preference Among Patients (PDS Arm, n = 234)^b



Preference Reasons Among Patients Who Preferred PDS^c



3 patients preferred intravitreal injections

- Fairly strongly: Requires less time for treatment (n = 1)
- Fairly strongly: Other reason (n = 1)
- Not very strongly: Other reason (n = 1)

^a For patients with missing Week 40 values the last post-baseline observation was imputed. ^b Percentages are based on total number of patients who completed the measure. ^c Patients could select multiple reasons for their preference.

PDS, Port Delivery System with ranibizumab; PPPQ, PDS patient preference questionnaire.

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Archway Met Primary Endpoint: PDS Q24W Equivalent to Monthly Ranibizumab



Equivalent Vision, Controlled Retinal Thickness

- PDS noninferior and equivalent for BCVA change at weeks 36/40
- PDS controlled retinal thickness as well as monthly ranibizumab through week 40

Treatment Durability, Reduced Treatment Burden

- 98% of PDS patients did not receive supplemental treatment before first refill-exchange
- ~5x fewer treatments through week 40 for PDS patients
- 93% of PDS patients preferred PDS over intravitreal injections

Favorable Benefit-Risk Profile

PDS surgery-device-drug combination was generally well tolerated

PDS maintained vision while reducing treatment burden through continuous delivery of ranibizumab



Welcome Karl Mahler, Head of Investor Relations and Group Planning

Ophthalmology Strategy Atul Dandekar, Vice President and Global Franchise Head of Ophthalmology

Ophthalmology Pipeline Update

Chris Brittain, Vice President and Global Head of Ophthalmology Product Development

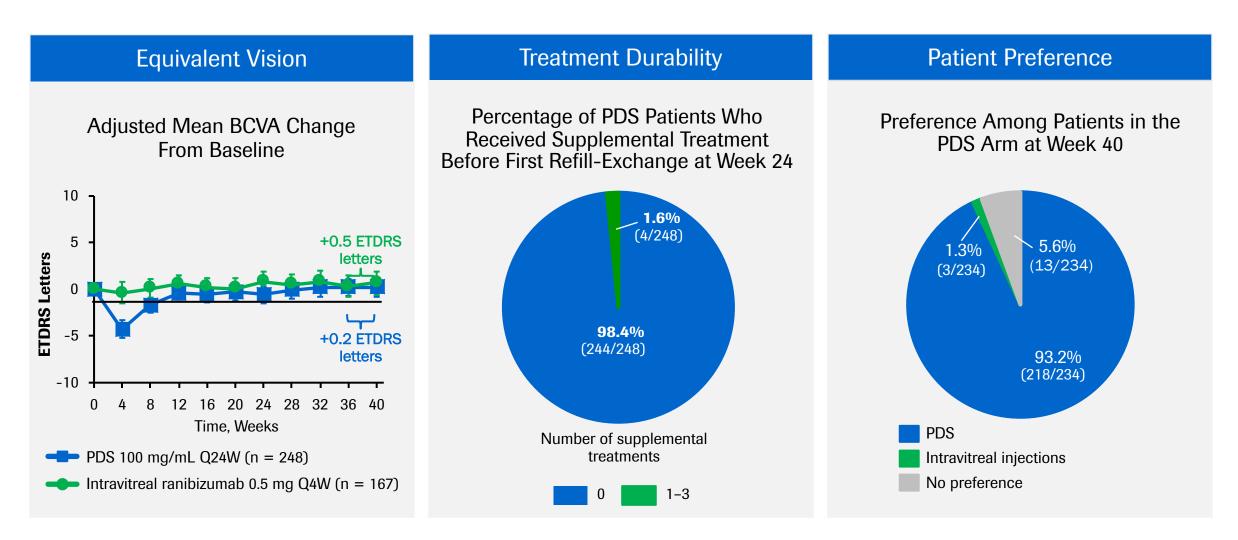
PDS: Archway – Phase III topline results

Dante Pieramici, M.D., Retina Specialist and PDS Clinical Investigator

Q&A

Karl Mahler, Head of Investor Relations and Group Planning

PDS demonstrated Equivalent BCVA, >98% 6-month Durability, and >93% Patient Preference





Doing now what patients need next