

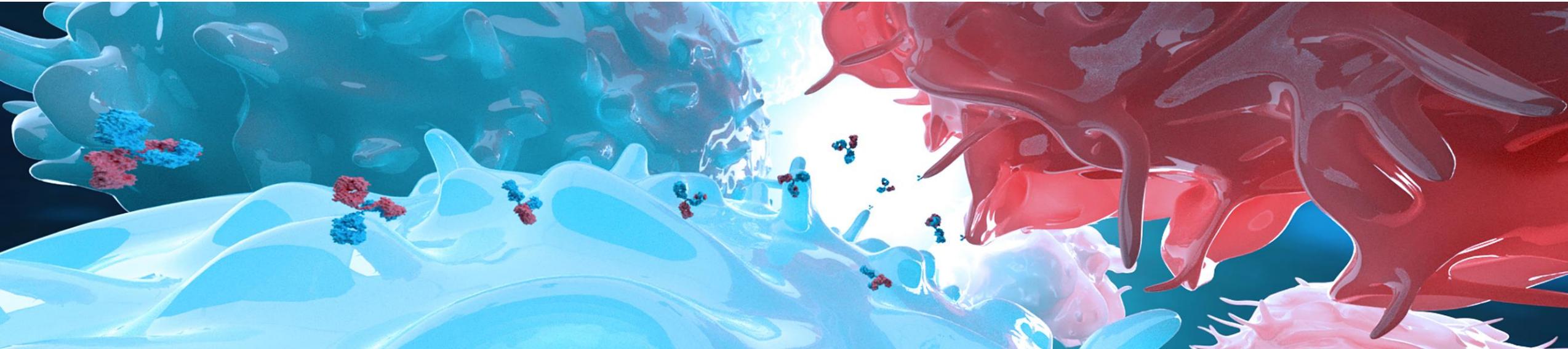
# Roche Late Stage Pipeline Event 2021

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## *Late Stage Pipeline Ophthalmology*

**Nilesh Mehta |**

Lifecycle Leader, faricimab



# Ophthalmology

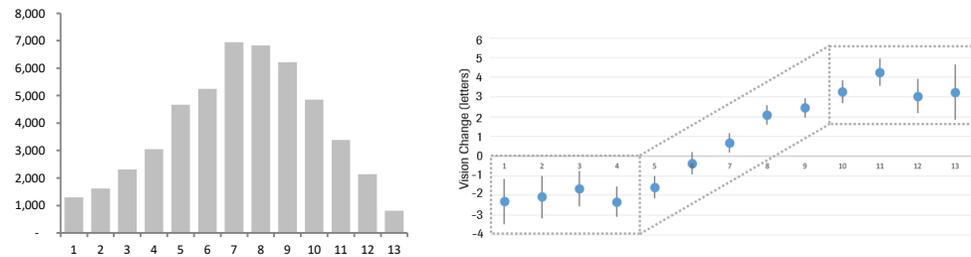
1. Ophthalmology landscape
2. Faricimab
3. Port Delivery System
4. Ophthalmology pipeline / PHC



# Reduction in treatment burden is a key unmet medical need

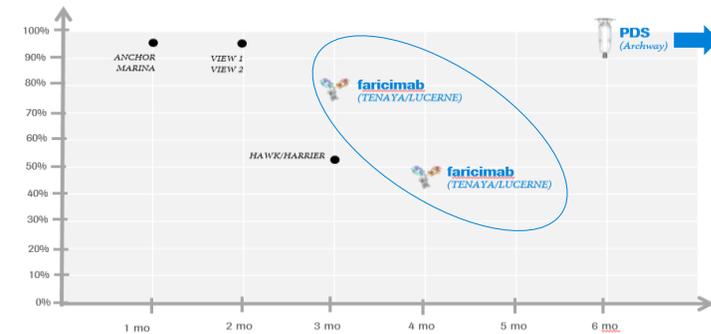
## *Real world vision outcomes are suboptimal*

**Adherence to IVT therapies is low and infrequent dosing in the real world correlates with vision loss**



*Only 50% of patients can be extended to Q3M dosing with current IVT therapies*

**Improved durability will help improve real world outcomes**



*faricimab and PDS are potential new standards of care*

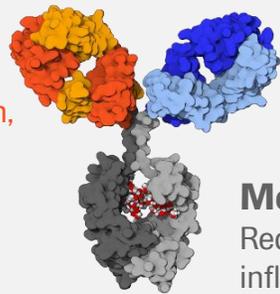
# Faricimab

*Filed in US and EU with approvals expected in 2022*

*Faricimab improves vascular stability via neutralization of both Ang-2 and VEGF-A*

### Anti-Ang-2 Fab

Ang-2 binding leads to pericyte loss, inflammation, cell membrane instability, and increased VEGF sensitivity



### Anti-VEGF-A Fab

VEGF-A promotes leakage, abnormal vessel sprouting

### Modified Fc

Reduces systemic exposure and inflammatory potential

## Positive results over four studies in nAMD/DME

Indication	Ph1	Ph2	Ph3	
DME	YOSEMITE/RHINE			✓
nAMD	TENAYA/LUCERNE			✓
RVO	BALATON/COMINO			

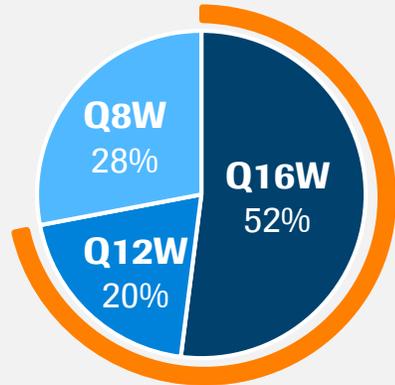
- Joint filing in nAMD/DME in US, EU, and Japan
- Two Ph 3 studies initiated in RVO
- Long-term extension studies initiated in DME and nAMD

# Faricimab: positive data in DME and nAMD

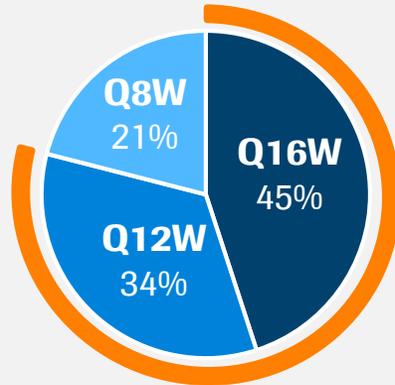
## *Demonstrating advantages in durability (up to Q16W) and anatomy*

**75-80% of patients maintained on  $\geq$ Q12W dosing,  
~50% of patients maintained on  $\geq$ Q16W dosing**

YOSEMITE/RHINE  
(DME)



TENAYA/LUCERNE  
(nAMD)



### BCVA

- BCVA gains with faricimab Q8W or up to Q16W non-inferior to aflibercept Q8W

### Disease control

- DME: better anatomic outcomes vs. aflibercept:
  - Change in CST favoring faricimab
  - More patients showing absence of DME
  - More patients showing absence of IRF
- nAMD: Meaningful reductions in CST

### Safety

- Faricimab was well tolerated
- IOI event rates were low
- No cases of vasculitis or occlusive retinitis reported

### Long-term data

- Year 2 data and long-term studies (RHONE-X, AVONELLE-X) are ongoing in DME, nAMD

# Port Delivery System (PDS)

*Filed in US and EU in Q2 2021, with FDA approval expected this year*

*With PDS, nearly all patients can be maintained on 6m dosing, improving patient compliance and real world outcomes*



- **PDS implant:** permanent, refillable intraocular implant. One-time ~30 min outpatient surgical procedure.



- **Refill exchange:** twice yearly in-office refill of the device using proprietary needle assembly. Can only be refilled with proprietary formulation (not other molecules or biosimilars)

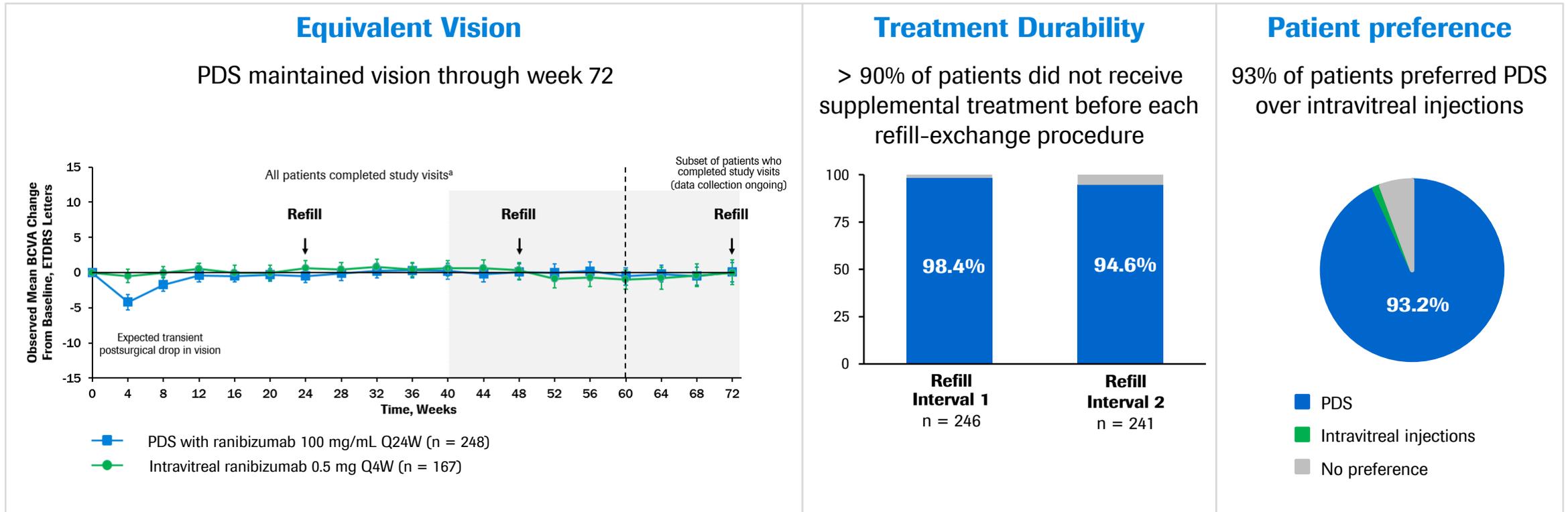
## Positive Ph 3 results in nAMD with additional trials ongoing in DME, DR

Indication	Ph1	Ph2	Ph3
nAMD			Archway ✓
DME			Pagoda
DR			Pavilion

- Ph 3b Velodrome study investigating 9m dosing initiated
- Ph 2/3 long-term extension study (Portal) in nAMD initiated
- Ph 3 Pagoda fully recruited; data expected in 2022

# PDS: nearly all patients able to be maintained on 6m dosing

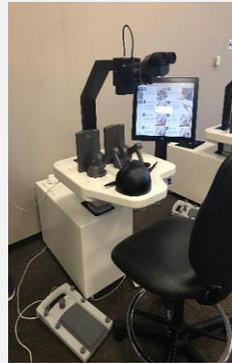
## *Strong patient preference for PDS*



# Preparing for a global launch in nAMD

## *US launch planned for 2021, ex-US for 2022*

### Virtual reality training



- Virtual reality (VR) technology enables preoperative training of surgeons on PDS procedures (implant insertion and refill)
- >200 US surgeons trained in Ph III across ~100 sites; ex-US VELODROME trial ongoing in 15+ countries

### Field-based support



- Surgical Device Specialists (SDS) support training on site, and facilitate peer to peer discussion and education
- Focus on ensuring consistency in outcomes and enhancing the patient experience

### Payer discussions ongoing



- Currently engaging with payers
- Considerations for reimbursement: PDS device, implant procedure, drug, refill procedure

# Industry leading ophthalmology pipeline

## *Eight NMEs in early stage development (Ph 1/2)*

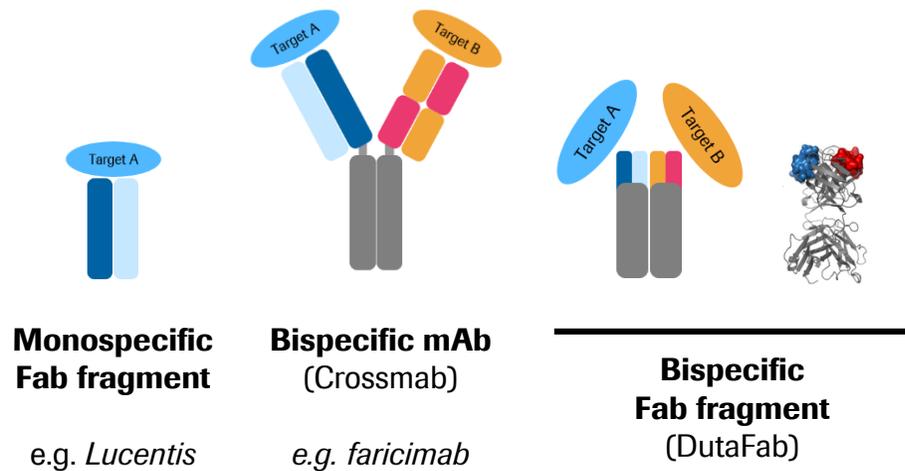
<i>Indication</i>	Phase I	Phase II	Phase III
<b>Neovascular AMD</b>	RG7921		faricimab <sup>1</sup>
	RG6120		PDS w ranibizumab <sup>1</sup>
<b>Diabetic Macular Edema</b>	RG6179		faricimab <sup>1</sup>
			PDS w ranibizumab
<b>Diabetic Retinopathy</b>		RG7774	PDS w ranibizumab
<b>Retinal Vein Occlusion</b>			faricimab
<b>Geographic Atrophy</b>	RG6312	RG6147	
		RG6299*	
<b>Choroideremia</b>	SPK-7001**		



PDS=Port Delivery System; NME=new molecular entity; Lucentis PFS is marketed by Novartis outside the U.S.; \* Study conducted by Ionis, Roche option to in-license; Roche option to in-license; \*\*with Spark Therapeutics, approved for patients with biallelic *RPE65* mutation-associated retinal dystrophy; <sup>1</sup> regulatory submissions initiated

# Port Delivery System is a platform technology

*DutaFabs\* are next generation bispecifics designed for increased efficacy & durability*



## Positive PDS Ph3 has enabled acceleration of DutaFabs in PDS platform

- DutaFabs are a novel bispecific Fab format significantly smaller than bispecific antibodies
- DutaFabs are compatible with the Port Delivery System enabling increased durability beyond Q6M
- Two DutaFabs are in clinical development with distinct targets, including Ang2/VEGF

\* Nature Communications, volume 12, Article number: 708 (2021); PDS = Port Delivery System

# Ophthalmology Personalized Healthcare

*Remote monitoring & advanced analytics to help treat vision loss early*

## Remote vision monitoring



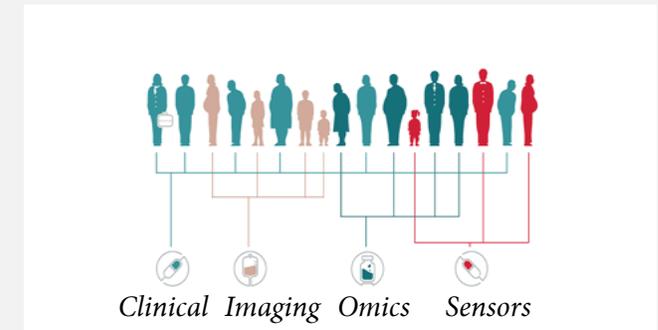
- App-based designed test to detect changes in vision in-between office visits
- Vision alerts sent to doctor
- Ongoing Home Vision Monitoring pilot to support patients during COVID-19

## Retinal imaging and algorithms



- Demonstrated PoC utilizing internal algorithms in disease detection, prediction of progression and response to treatment

## Data portfolio



- RWD and data sharing partnerships:



*Doing now what patients need next*