#### **POYANG**

A PHASE III, MULTICENTER,
RANDOMIZED, DOUBLE-MASKED,
ACTIVE COMPARATOR-CONTROLLED
STUDY TO EVALUATE THE EFFICACY
AND SAFETY OF FARICIMAB IN
PATIENTS WITH CHOROIDAL
NEOVASCULARIZATION SECONDARY
TO PATHOLOGIC MYOPIA



Version 1.0 22-Dec-23



# **Myopia Epidemic**

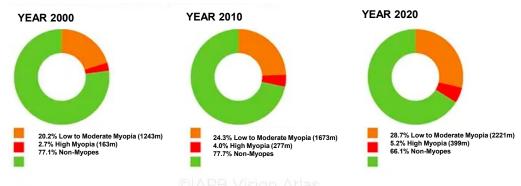
The myopia epidemic has become a very important global health issue.

In 2010, 28% of the world's population was affected.

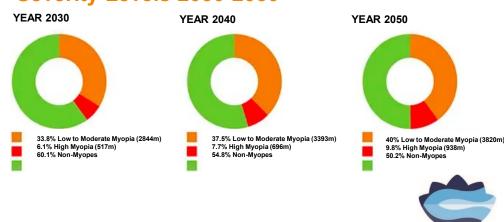
By 2050, the proportion could reach 50%.

The burden has been felt most strongly in APAC, where rates can be as high as 90%

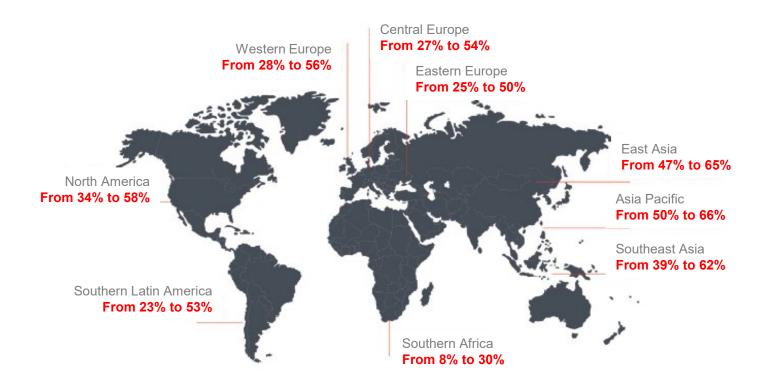
#### **Severity Levels 2000-2020**



#### Severity Levels 2030-2050



# **Current and Projected by 2050 Myopia Prevalence**





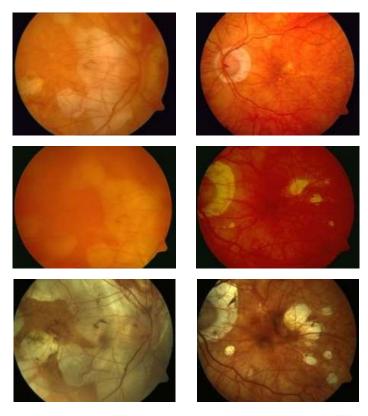
Holden BA, Fricke TR, Wilson DA, et al. Global prevalence of myopia and high myopia and temporal trends from 2000 through 2050. Ophthalmology. 2016;123(5):1036-1042.

## **Pathological Myopia**

High myopia is defined as refractive error of at least
 -6.0D spherical equivalence or an axial length of
 26.0mm or more

 Pathologic myopia (high myopia with degenerative changes of the sclera, choroid and retina) represents a subgroup of myopia and affects up to 3% of the world population

 Vision loss related to pathologic myopia is of great clinical significance as it can be progressive, irreversible and affects individuals during their most productive years.





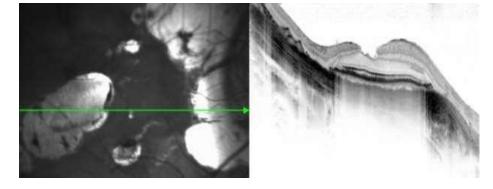


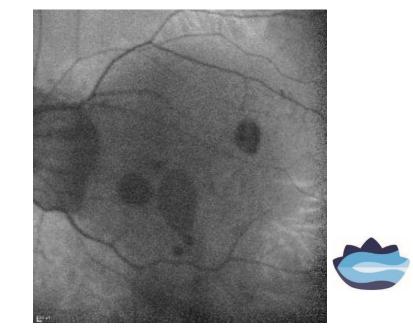
# **Classic Features**



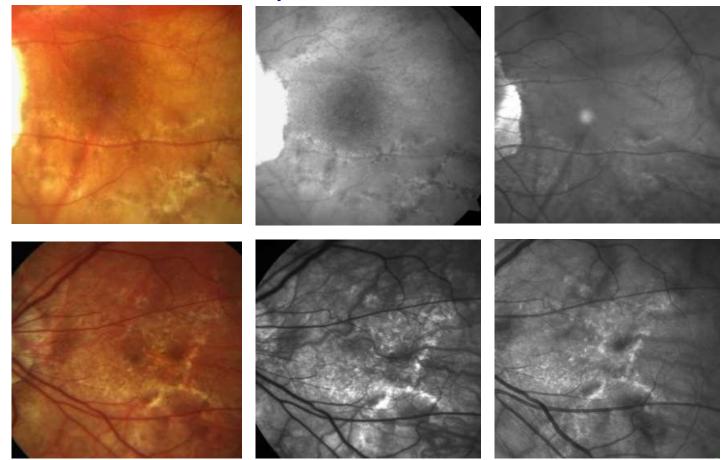
# Patchy atrophy





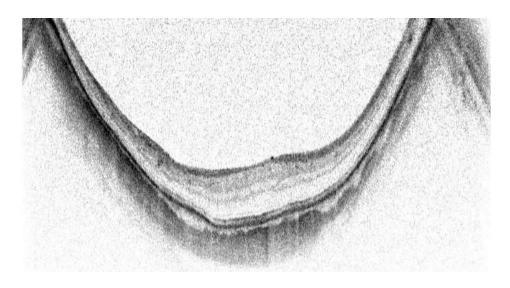


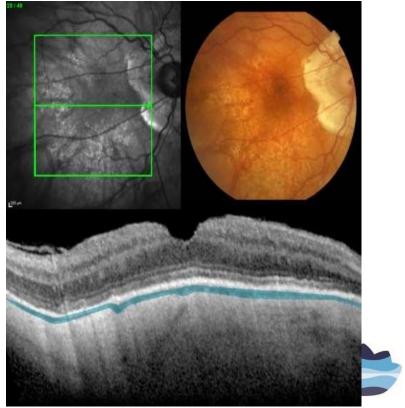
# Lacquer cracks





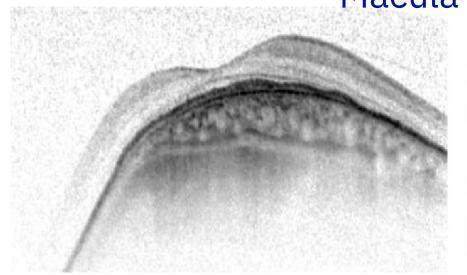
# Choroidal thinning

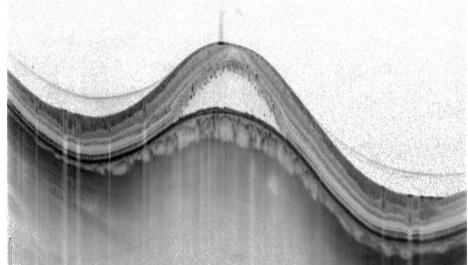




# Dome-shaped

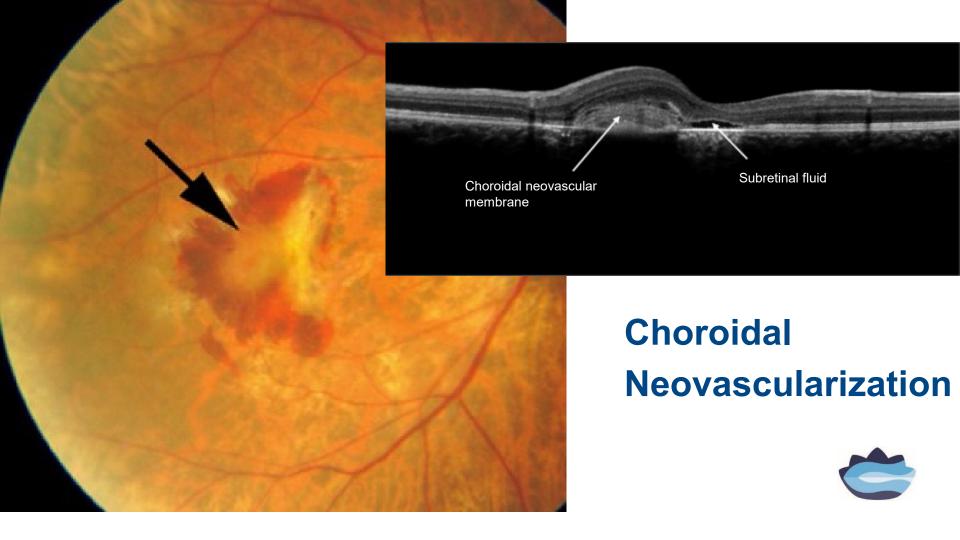
Macula



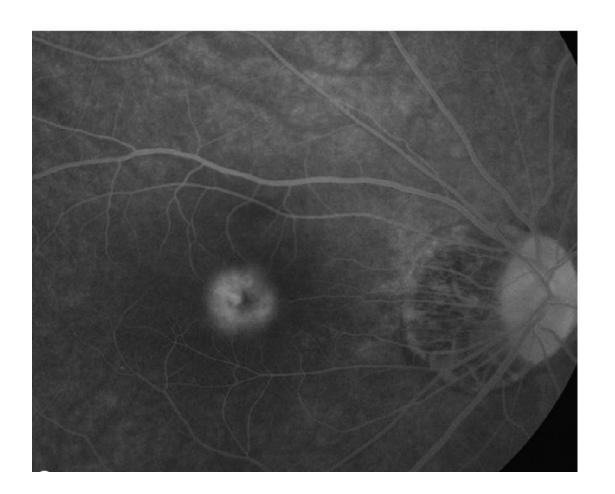


(Prevalence 10-18%)





# **Choroidal Neovascularization**



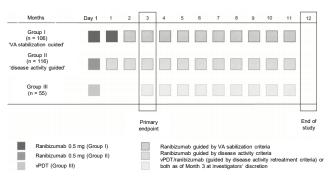
# **Myopic CNV**

- Serious complication of high and pathological myopia is myopic choroidal neovascularization (mCNV)
  - 5% 11% of individuals with PM will develop mCNV
- mCNV reported as the most common cause of CNV in the under 50 year age group





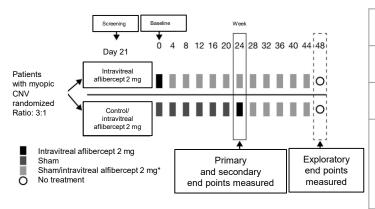
## **Previous RCT studies for myopic CNV**



VA, visual acuity, vPDT, verteporfin photodynamic therapy.

\*Identical study BRILLIANCE conducted to get mCNV indication in China (China, Hong Kong, India, South Korea, Philippines, Thailand)

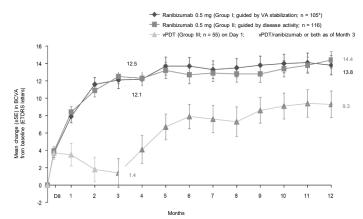
Comparator	Verteporfin PDT (superiority study)	
Study Length	12 months (PEP @ 3 months)	
PEP	BCVA change from baseline to average of month 1 to 3	
Retreatment criteria	VA stabilisation guided arm: defined as no change in VA based on PI judgment Disease activity arm: visual impairment attributable to SRF, IRF, or active leakage secondary to mCNV in PI judgement	



Comparator	Sham (superiority study)
Study Length	12 months (PEP @ 6 months)
PEP	BCVA change from baseline to month 6
Retreatment criteria	(1) > 5 letter BCVA reduction from the previous exam; (2) > 50 micron increase in CST, new or persistent cystic retinal changes, SRF or PED and new or persistent CNV or bleeding; or (3) deemed necessary by the investigator

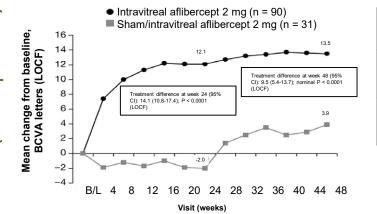
# MYRROR (afliberceptin mCNV)

# **Previous RCT outcomes for myopic CNV**



*Identical study BRILLIANCE conducted to get mCNV indication in China
(China, Hong Kong, India, South Korea, Philippines, Thailand)

Arm	3m VA gain	12m VA gain	No. of injections 12m
RBZ (VA-guided tx)	12.1	13.8	4.6
RBZ (anatomical-guided tx)	12.5	14.4	3.5
PDT	1.4	9.3	2.4



Arm	6m VA gain	12m VA gain	No. of injections 12m
AFL	12.1	13.5	4.2
Sham	-2.0	3.9	3.0

# **Current Options**

Ranibizumab licensed indications (RADIANCE/BRILLIANCE Study - ranibizumab vs. PDT)

- US = mCNV
- EU/ROW = visual impairment due to CNV

Aflibercept licensed indications (MYRROR Study - aflibercept vs. sham)

- US = not approved
- China = not approved
- EU/ROW = mCNV

Studies show a clear benefit of anti-VEGF therapy in treating myopic CNV, with 3-4 injections in the first year to improve and maintain BCVA



# Unmet need with current mCNV treatment options...



Approximately 10 to 20% CNV recurrence rate necessitating treatment

Up to 12.5% of patients with significant (10+ letter) vision loss over time

Initial visual acuity benefits may not persist with longer (5+ year) followup

Myopic macular neovascularization eyes lose vision mainly because of multiple recurrences (median time to recurrence ~ 14 months)



#### **Faricimab:**

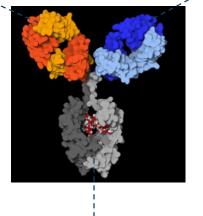
# 1 Molecule Targeting 2 Signaling Pathways via Ang-2 and VEGF-A to Improve Vascular Stability for Durable Efficacy

#### Anti-Ang-2 Fab

Stabilizes vessels
Reduces vascular leakage
Reduces inflammation

#### Anti-VEGF-A Fab

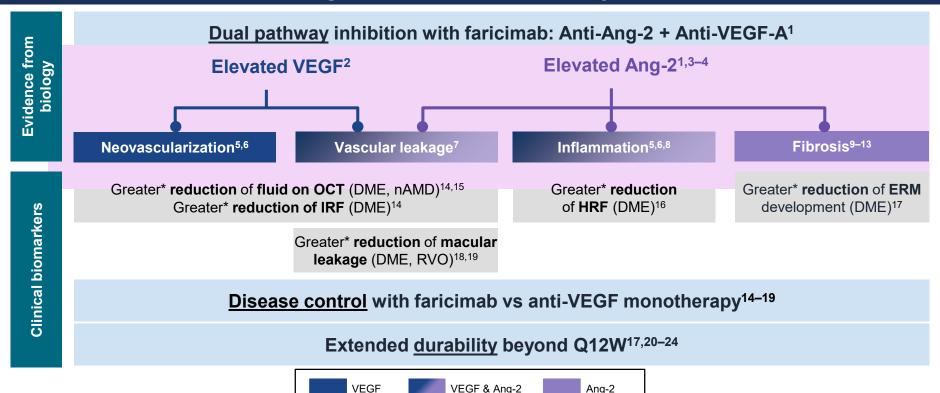
Reduces vascular leakage Inhibits neovascularization



Modified Fc
Reduces systemic exposure
Reduces inflammatory potential

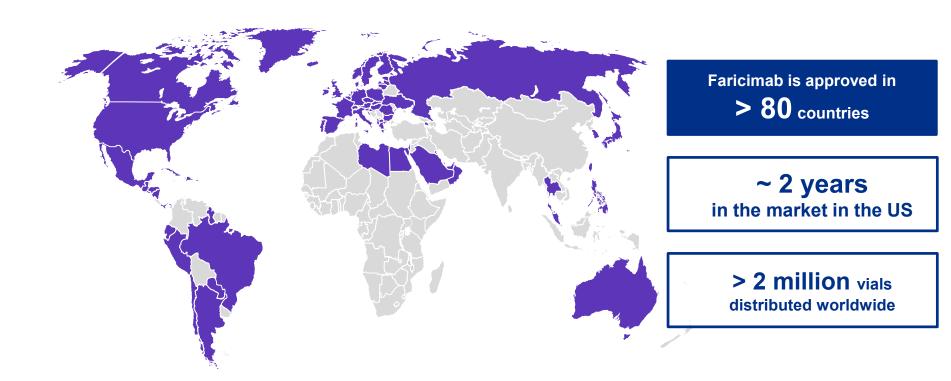


### **Clinical Biomarker Targets for Dual Pathway Inhibition**





# As of October 2023, > 2 million vials have been distributed



# **POYANG Study Objectives**

#### To investigate ...



Efficacy of faricimab on visual acuity in patients with CNV secondary to pathologic myopia



Benefits of faricimab on anatomical endpoints



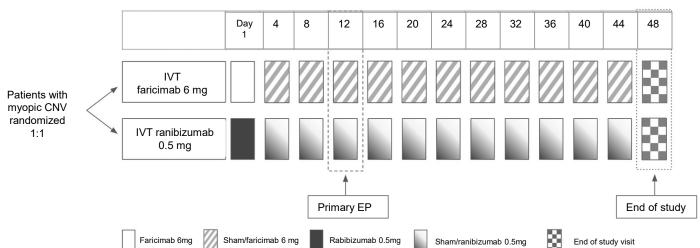
Safety of faricimab



# **Study Design**

- Non-inferiority study of 280 treatment-naive myopic CNV patients
- Faricimab 6.0mg vs. ranibizumab 0.5mg
- Active dosing at Day 1 followed by PRN based on Retreatment Criteria
- Non-dosing End of Study visit at Week 48
- Total Duration: Screening Period + 48 weeks
- Monthly assessments with BCVA and OCT at every visit

#### Study Week





# **Study Population (Key Study Eye Ocular Criteria)**

Inclusion	Exclusion	
<ul> <li>Diagnosis of active CNV secondary to pathologic myopia (reading center confirmed)</li> </ul>	History of previous pan-retinal or focal/grid laser photocoagulation with involvement of the macular area in the study eye at any time	
<ul> <li>BCVA ≥24 and ≤78 letters (20/320-20/32 Snellen equivalent)</li> </ul>	<ul> <li>History of intraocular treatment with corticosteroids, or treatment with anti-VEGF or vPDT at any time in the study eye</li> </ul>	
<ul> <li>anti-VEGF treatment-naive adults</li> <li>Sufficiently clear ocular media and adequate pupillary dilatation to allow acquisition of good quality retinal images to confirm diagnosis</li> </ul>	Presence of CNV secondary to any cause other than pathologic myopia	
	<ul> <li>Myopic tractional maculopathy/schisis</li> <li>Epiretinal membrane</li> <li>History of uveitis</li> </ul>	

# **Study Population (General Criteria)**



#### Inclusion

0

#### **Exclusion**

- Adult patients (≥18 years)
  - o ≥19 in Korea
- For women of childbearing potential: agreement to remain abstinent (refrain from heterosexual intercourse) or use acceptable contraceptive measures, as defined in protocol

- Any major illness or major surgical procedure within 1 month before screening
- Recent history of stroke or myocardial infarction (within 6 months)
- Systemic treatment for suspected or active systemic infection
- Uncontrolled Blood Pressure (>180/100)
- Pregnancy or breastfeeding
- Active cancer in past 12 months (except for appropriately treated carcinoma in situ of the cervix, non-melanoma skin carcinoma, and prostate cancer)

# **Summary**

- The prevalence of high myopia and pathologic myopia are increasing rapidly globally over time
- Anti-VEGF agents are the standard of care treatment for mCNV, though there are opportunities to improve outcomes in these younger patients
- Faricimab, a dual-pathway inhibitor of VEGF-A and Ang-2, may serve as an exciting new option to help these patients



# If you have patients who would be good candidates for this study, please contact:

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