

# SPECTRUM: Early clinical outcomes in the first global real-world study of aflibercept 8 mg in patients with previously treated diabetic macular edema

Varun Chaudhary, Marion R. Munk, 4-4 Clemens Lange, 5,6 Clare Bailey, Hassiba Oubraham, Tobias Machewitz, Helmut Allmeier, Open Peter Morgan-Warren, On behalf of the SPECTRUM study investigators

<sup>1</sup>Department of Surgery, McMaster University, Hamilton, ON, Canada; <sup>2</sup>Augenarzt Praxis gemeins chaft Gutblick AG, Pfä ffikon, Switzerland; <sup>3</sup>Department of Ophthalmology, University Hospital Bern, Bern, Switzerland; <sup>4</sup>Northwestern University, Feinberg School of Medicine, Chicago, IL, USA; <sup>5</sup>Eye Center, Faculty of Medicine, Albert-Ludwig University Freiburg, Freiburg, Germany; <sup>6</sup>Department of Ophthalmology, St Franziskus Hospital, Münster, Germany; <sup>7</sup>Department of Ophthalmology, University Hospitals Bristol and Weston NHS Foundation Trust, Bristol, UK; <sup>8</sup>Centre OPHTA-45, Montargis, France; <sup>9</sup>Bayer AG, Berlin, Germany; <sup>10</sup>Bayer Consumer Care AG, Basel, Switzerland



## Disclosures

- Varun Chaudhary: Receives grants from Bayer, Novartis, and Roche; consultancy fees from EyePoint Pharmaceuticals, Inc.; and serves on advisory boards for EyePoint Pharmaceuticals Inc., Appellis, Bayer, Boehringer Ingelheim, Novartis, and Roche
- MRM: Consulting fees for AbbVie, Alcon, Alimera, Allergan, Amgen, Apellis Pharmaceuticals, Astellas, Aviceda Therapeutics, Bayer, Boehringer Ingelheim, Dandelione, Eyegnos Consulting, EyePoint Pharmaceuticals, Evolve Medical Education, GenSight Biologics, Isarna Therapeutics, Iveric Bio, Kubota, LumiThera, Novartis, Oculis, OD-OS, ONL Therapeutics, OcuTerra Therapeutics, RetinAl, Roche, UBS analytics, and Zeiss. CL: Receives honoraria from Apellis, Bayer, Biogen, and Novartis. CB: Received honoraria from Alimera Sciences, Apellis, Bayer, and Roche, and has served on advisory boards for Apellis, Bayer, Boehringer Ingelheim, Janssen, and Roche. HO: Consultant for AbbVie, Bayer, Novartis, and Roche.
  TM: Employee of Bayer AG. HA and PM-W: Employees of Bayer Consumer Care AG
- The SPECTRUMstudy (NCT06075147) was sponsored by Bayer Consumer Care AG, Basel, Switzerland
- The sponsor participated in the design and conduct of the study, analysis of the data, and preparation of this presentation
- Medical writing support, under the direction of the authors, was provided by ApotheCom and funded by Bayer Consumer Care AG (Basel, Switzerland), in accordance with Good Publication Practice (GPP) guidance (Ann Intern Med. 2022;175:1298–1304)



# SPECTRUM: Global real-world study of aflibercept 8 mg

## A24-month, non-interventional country and global cohort study planned in 18 countries



## 2 indications, 4 patient cohorts

Treatment-naïve DME and previously treated DME Treatment-naïve nAMD and previously treated nAMD



## Primary endpoint: Change in VA from BL to Month 12

Patient enrollment to date:

642/775 in the PTDME cohort and 3463 overall

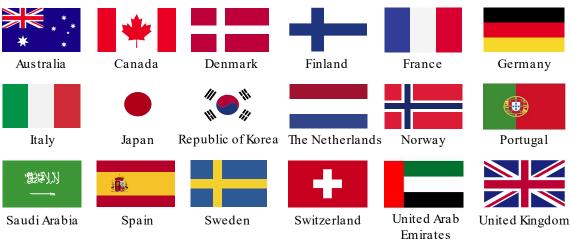
Secondary endpoints include:



Change in VA and CRT from BL to Month 6



Number of injections, visits, and safety from BL to Month 6

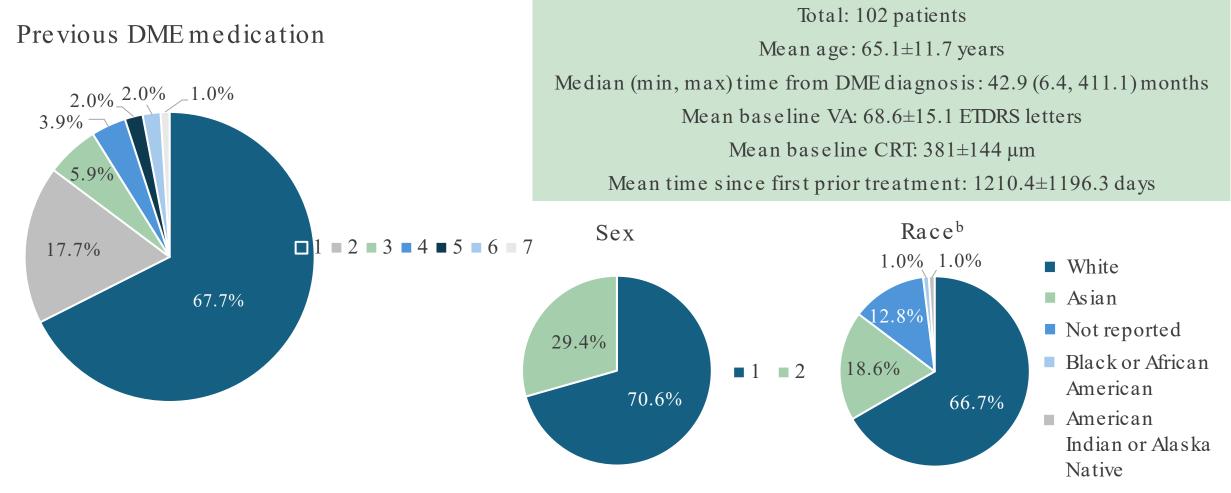






# R Baseline characteristics: Previously treated DME

## Analysis of patients with a VA assessment at Week 4a



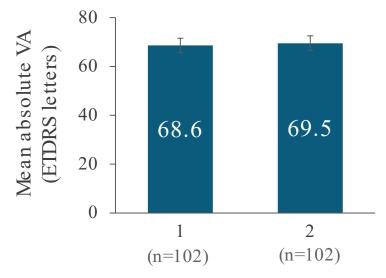
FAS. Percentages may not add up to 100 due to rounding.



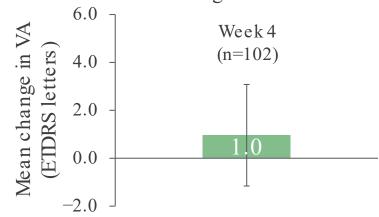


# CRTthrough Week 4

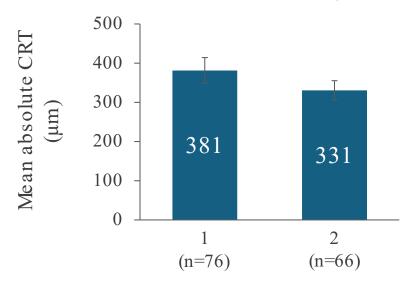
#### Mean absolute VAthrough Week 4



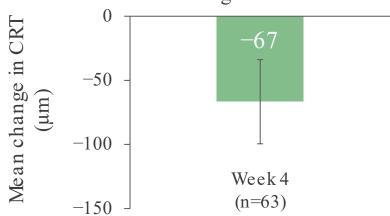
### Mean change in VA from BL



### Mean absolute CRTthrough Week 4



#### Mean change in CRT from BL



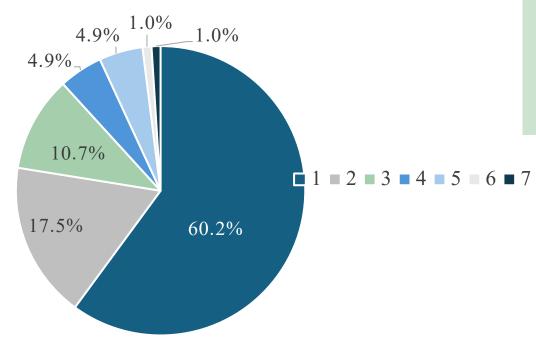




## R Baseline characteristics: Previously treated DME

## Analysis of patients with a VA assessment at Week 8<sup>a</sup>





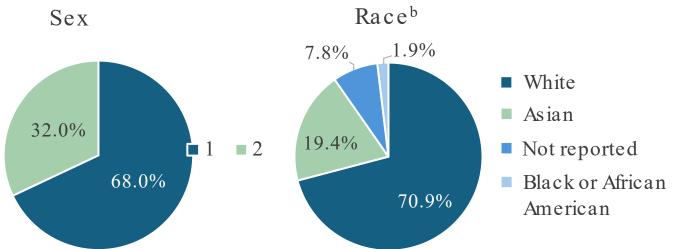
Total: 103 patients Mean age:  $65.5\pm11.3$  years

Median (min, max) time from DME diagnosis: 47.8 (3.3, 411.1) months

Mean baseline VA: 70.2±13.5 ETDRS letters

Mean baseline CRT: 361±141 µm

Mean time since first prior treatment: 1291.0±1235.9 days



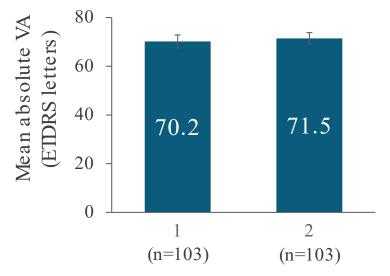




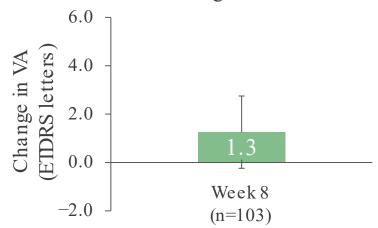
## VAthrough Week 8

# CRTthrough Week 8

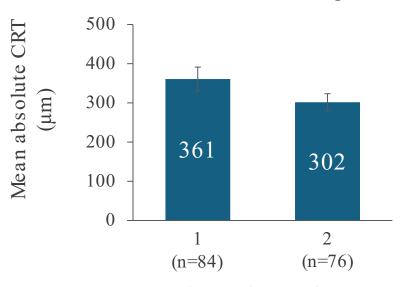
#### Mean absolute VAthrough Week 8



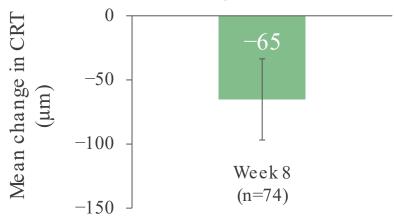
Mean change in VA from BL



### Mean absolute CRTthrough Week 8



## Mean change in CRT from BL



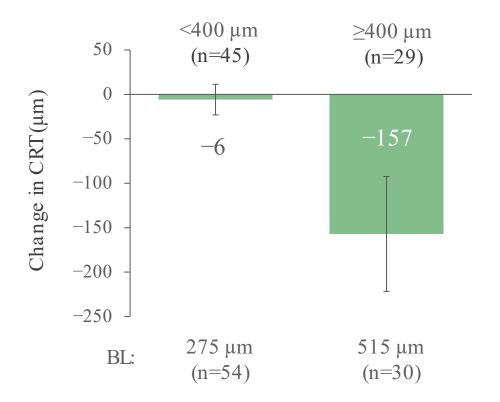
FAS, OC. Values have been rounded to the nearest decimal point. Error bars are 95% CI. In 51 patients with a VAassessment at Week 4, the mean (95% CI) change in VAat Week 4 was +1.9 (-0.2 to 4.0) letters from a BLof 71.8 letters (n=51). In 31 patients with a CRT assessment at Week 4, the mean (95% CI) change in CRT at Week 4 was -63 (-116 to -10) μm from a BLof 382 μm (n=31).



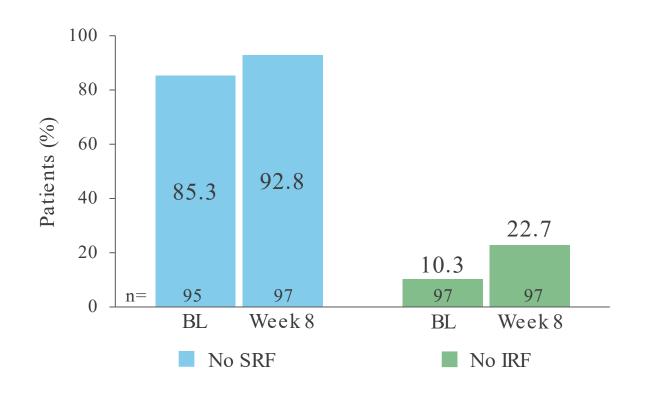
## CRTthrough Week 8



## Mean change in CRT grouped by baseline CRT



#### Patients without SRF or IRFa





	Week 4 Total (N=102)	Week 8 Total (N=103)
Ocular TEAEs in the study eye, n (%) <sup>a</sup>	4 (3.9)	6 (5.8)
Serious ocular TEAEs, n (%)	1 (1.0)	2 (1.9)
Non-ocular TEAEs, n (%)	3 (2.9)	5 (4.9)
Serious non-ocular TEAEs, n (%)	1 (1.0)	1 (1.0)



No cases of intraocular inflammation or retinal vasculitis were reported



# Early findings from SPECTRUM support the real-world effectiveness and safety of aflibercept 8 mg in patients with previously treated DME



More than 3400 patients enrolled in SPECTRUM across 18 countries to date



More than 600 patients enrolled in the previously treated DME cohort across 9 countries to date



Early clinical outcomes at Week 4/Week 8

• Stable VA and improved CRT following switch to a flibercept 8 mg



Safety outcomes at Week 4/Week 8

- No cases of intraocular inflammation or retinal vasculitis were reported
  - No new safety signals identified

As the first global real-world study of aflibercept 8 mg, early findings from SPECTRUM will help to inform clinical management of previously treated DME with aflibercept 8 mg

Presentation of Month 6 data is planned for later in 2025, with Month 12 and Month 24 analyses on track