



SPECTRUM, 6-month data from a global real-world study of aflibercept 8 mg in neovascular age-related macular degeneration

Marion R. Munk,^{1,2,3} Clare Bailey,⁴ Clemens Lange,^{5,6} Varun Chaudhary,⁷ Paolo Lanzetta,^{8,9} Hassiba Oubraham,¹⁰ Martin Kirchner,¹¹ Tobias Machewitz,¹² Helmut Allmeier,¹³ Xin Zhang,¹³ Zoran Hasanbasic,¹³ on behalf of the SPECTRUM study investigators

¹Augenarzt Praxisgemeinschaft Gutblick AG, Pfäffikon, Switzerland; ²Department of Ophthalmology, University Hospital Bern, Bern, Switzerland; ³Northwestern University, Feinberg School of Medicine, Chicago, IL, USA; ⁴Department of Ophthalmology, University Hospitals Bristol and Weston NHS Foundation Trust, Bristol, UK; ⁵Eye Center, Faculty of Medicine, Albert-Ludwig University Freiburg, Freiburg, Germany; ⁶Department of Ophthalmology, St Franziskus Hospital, Münster, Germany; ⁷Department of Surgery, McMaster University, Hamilton, ON, Canada; ⁸Department of Medicine – Ophthalmology, University of Udine, Udine, Italy; ⁹Istituto Europeo di Microchirurgia Oculare (IEMO), Udine, Italy; ¹⁰Centre OPHTA-45, Montargis, France; ¹¹Bayer AG, Leverkusen, Germany; ¹²Bayer AG, Berlin, Germany; ¹³Bayer Consumer Care AG, Basel, Switzerland



Disclosures

- **Marion R. Munk:** Consulting fees for AbbVie, Alcon, Alimera, Allergan, Amgen, Apellis Pharmaceuticals, Astellas, Aviceda Therapeutics, Bayer, Boehringer Ingelheim, Dandelione, Evolve Medical Education, eye.gnos consulting, EyePoint Pharmaceuticals, GenSight Biologics, Isarna Therapeutics, Iveric Bio, Kubota, LumiThera, Novartis, Ocular Therapeutics, Oculis, OcuTerra Therapeutics, OD-OS, ONL Therapeutics, RetinAI, Roche, Sitalis, UBS analytics, and Zeiss
 - **CB:** Received honoraria from Alimera Sciences, Apellis, Bayer, and Roche; and has served on advisory boards for Alimera Sciences, Apellis, Bayer, Boehringer Ingelheim, Janssen, and Roche. **CL:** Receives honoraria from Apellis, Bayer, Biogen, and Novartis. **VC:** Consulting fees from EyePoint Pharmaceuticals; receives grants from Bayer, Novartis, and Roche; and serves on advisory boards for Apellis, Bayer, Boehringer Ingelheim, EyePoint Pharmaceuticals, Novartis, and Roche. **PL:** Consulting fees from 4DMT, Aerie Pharmaceuticals, Adverum, Allergan, Annexon, Apellis, Bausch + Lomb, Bayer, Biogen, Boehringer Ingelheim, EyePoint Pharmaceuticals, Genentech, I-Care, Novartis, Ocular Therapeutix, Outlook Therapeutics, Roche, and TowardPi. **HO:** Consulting fees from AbbVie, Bayer, Novartis, and Roche. **MK** and **TM:** Employees of Bayer AG. **HA, XZ,** and **ZH:** Employees of Bayer Consumer Care AG
- The SPECTRUM study (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
- The data were originally presented at the 25th European Society of Retina Specialists Congress in Paris, France, September 4–7, 2025
- 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

A 24-month, non-interventional country and global cohort study planned in 18 countries



Two indications, four patient cohorts

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



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

Secondary endpoints include:

Change in **VA** and **CRT** from BL to Week 24

Number of **injections**, **visits**, and **safety** from BL to Week 24

Patient enrollment
is complete:

3739

nAMD + DME

1167

TN nAMD cohort

1124

PT nAMD cohort



Australia



Canada



Denmark



Finland



France



Germany



Italy



Japan



Republic of Korea



The Netherlands



Norway



Portugal



Saudi Arabia



Spain



Sweden



Switzerland



United Arab
Emirates



United Kingdom



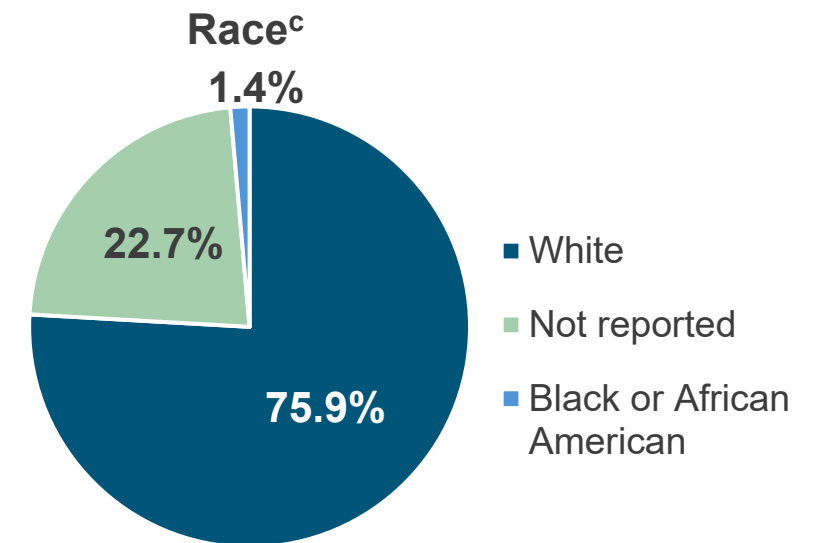
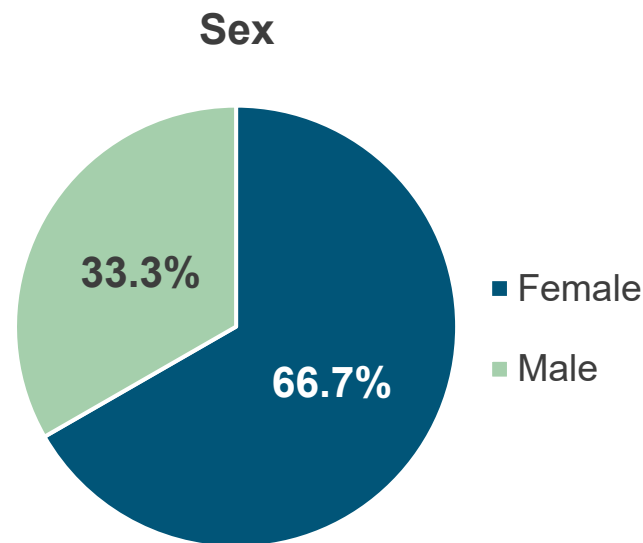
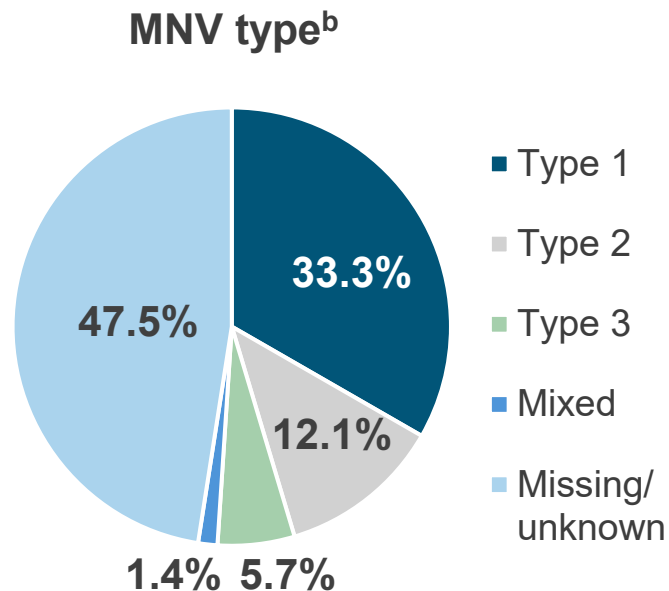
Treatment-naïve nAMD

Week 24 results in the first ~150 patients enrolled

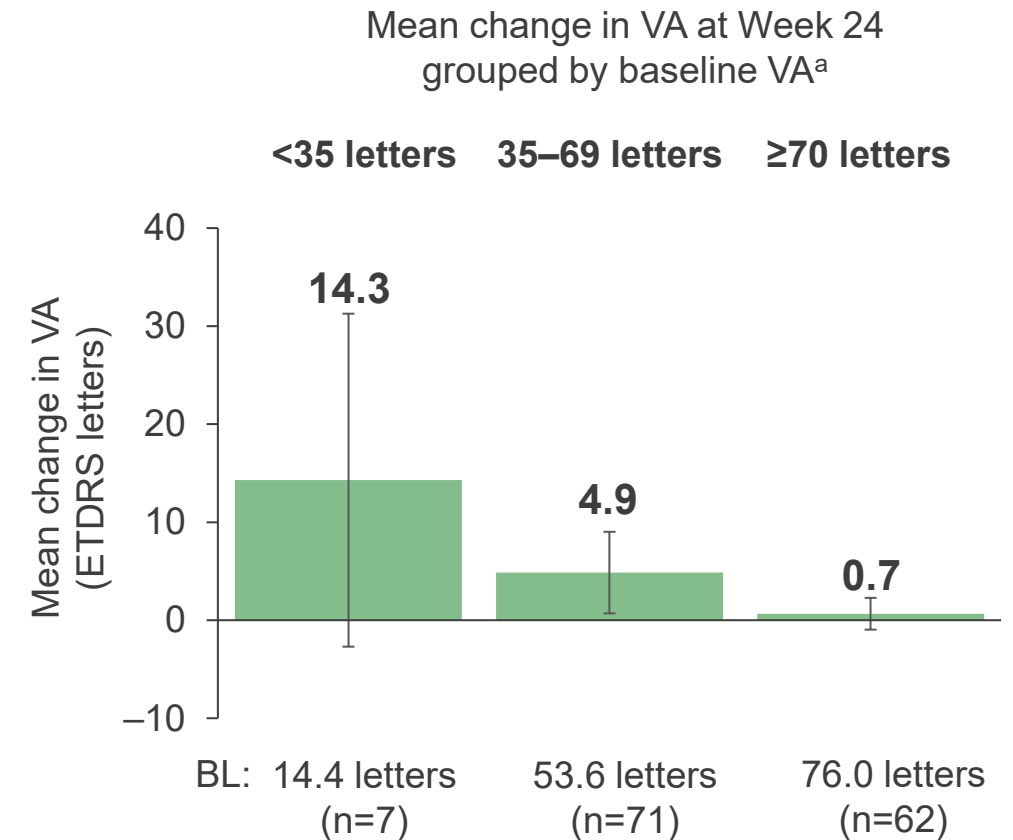
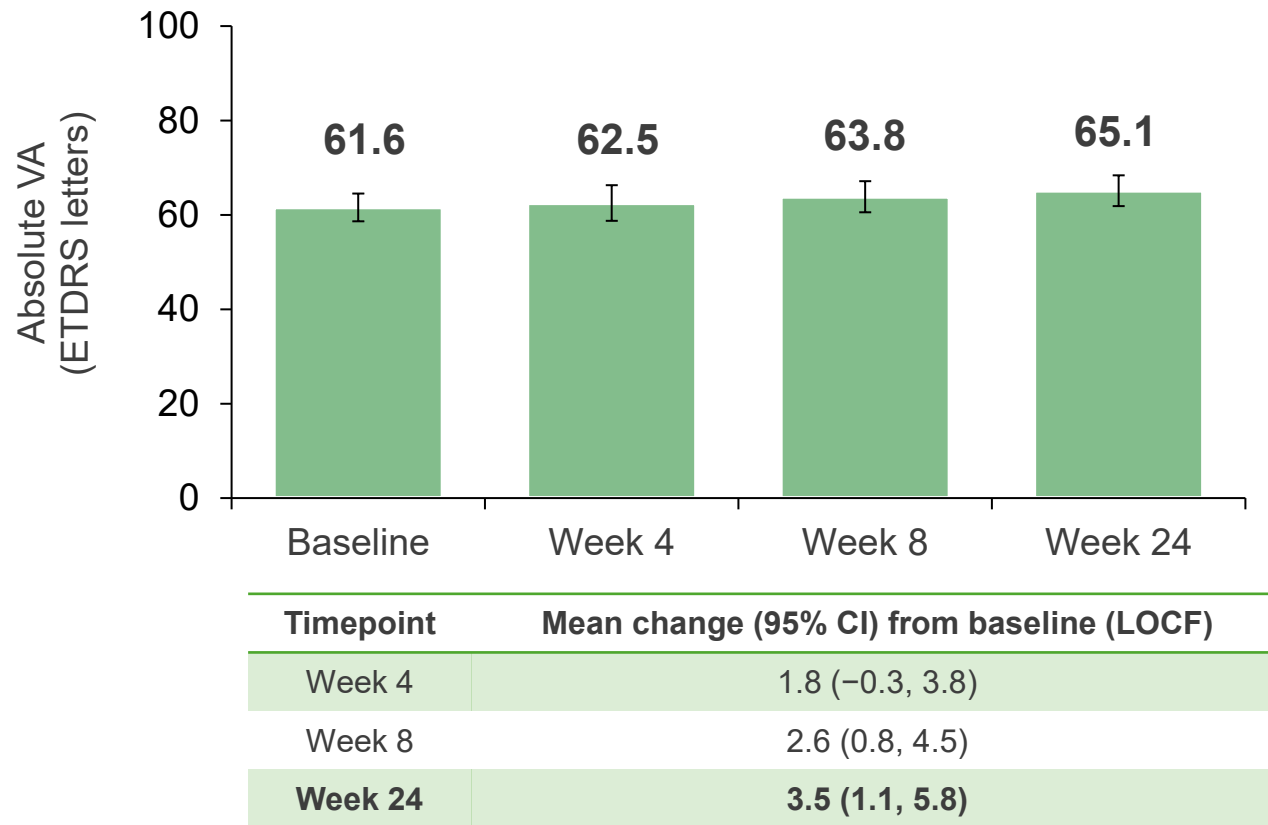
Baseline characteristics: Treatment-naïve nAMD

Week 24 analysis of the first ~150 patients enrolled^a

FAS, n	141
Age, years	80.8±6.9
Median (min, max) time from nAMD diagnosis, months	0.1 (0.0, 21.9)
Baseline VA, ETDRS letters	61.6±17.6
Baseline CRT, µm	365±129

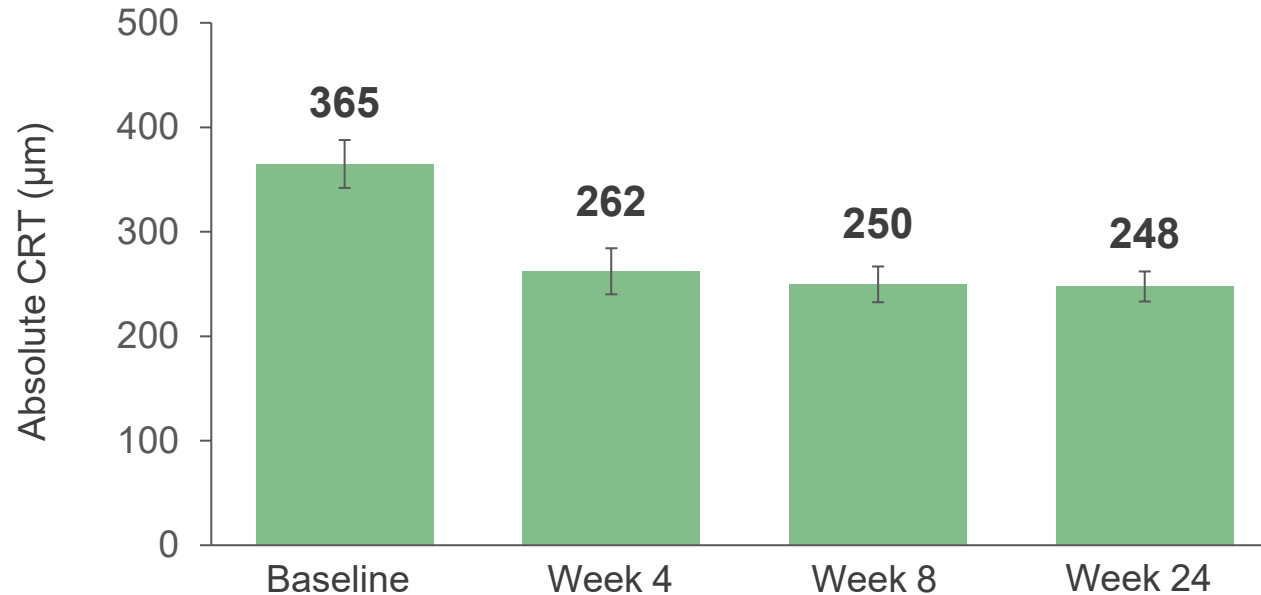


VA through Week 24

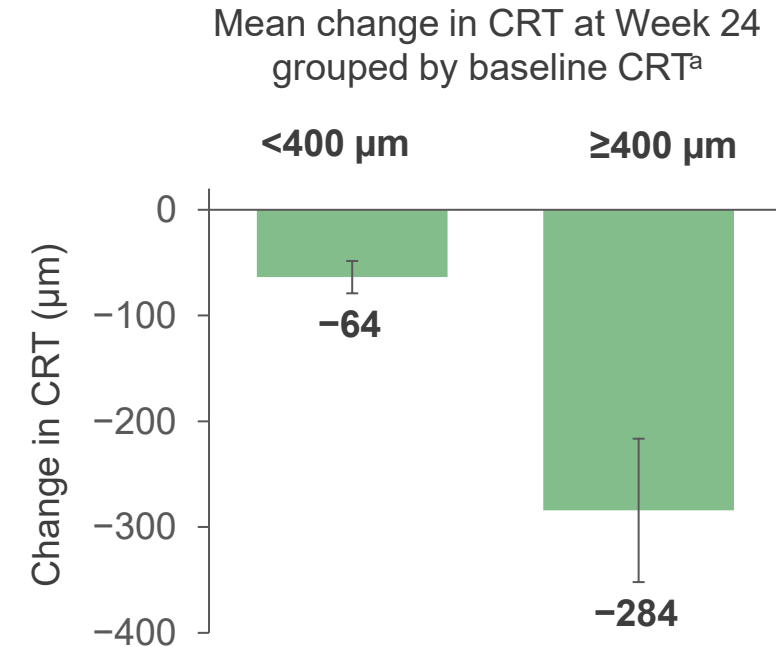


Patients received a mean of **4.7 injections** up to **Day 210** from **baseline**

CRT through Week 24



Timepoint	Mean change (95% CI) from baseline (LOCF)
Week 4	-132 (-166, -98)
Week 8	-133 (-160, -106)
Week 24	-119 (-146, -92)



BL: 305 µm
(n=92)

536 µm
(n=32)



The proportion of **patients without IRF** increased from a **baseline of 44.7% to 68.4% at Week 24**



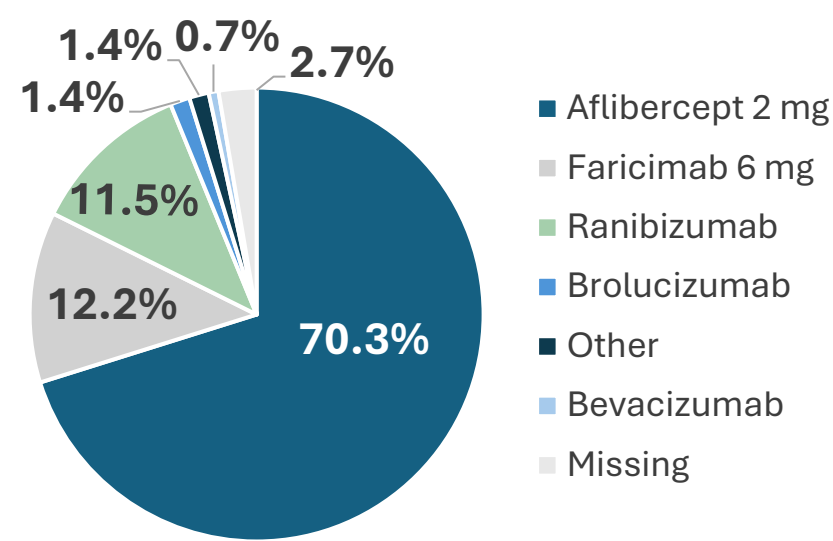
Previously treated nAMD

Week 24 results in the first ~150 patients enrolled

Baseline characteristics: Previously treated nAMD

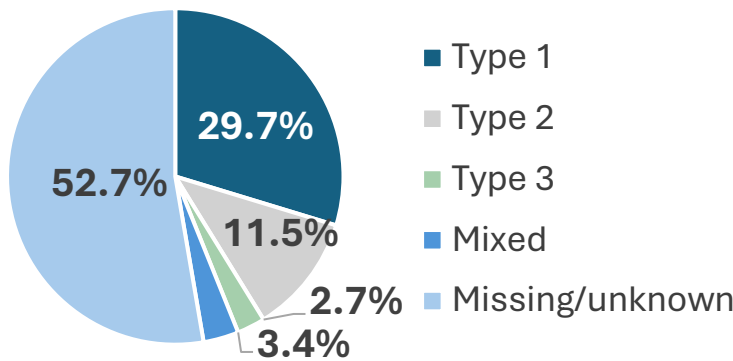
Week 24 analysis of the first ~150 patients enrolled^a

Previous nAMD medication

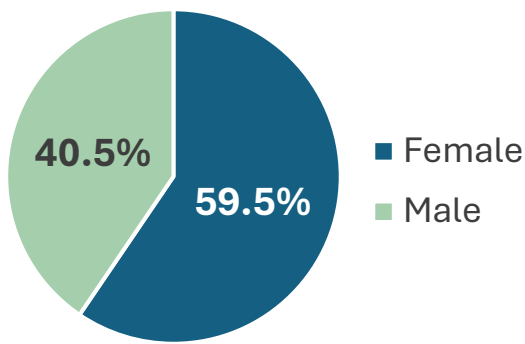


FAS, n	148
Age, years	79.4±8.4
Median (min, max) time from nAMD diagnosis, months	34.2 (1.3, 210.3)
Baseline VA, ETDRS letters	63.0±19.3
Baseline CRT, µm	320±109

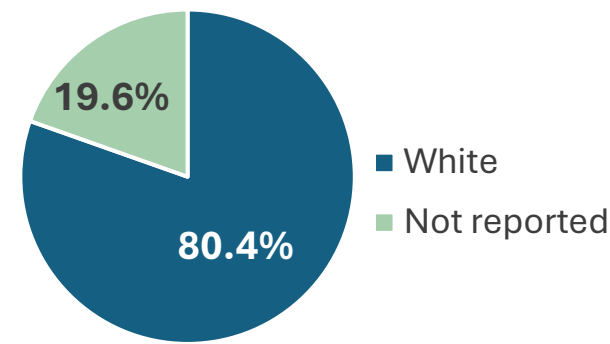
MNV type^b



Sex

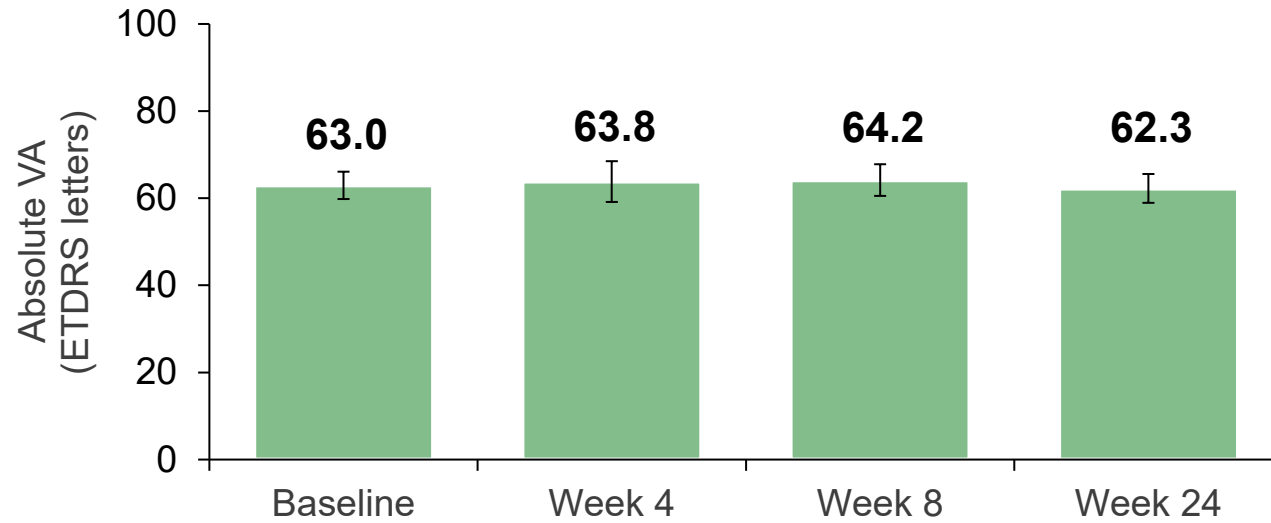


Race^c

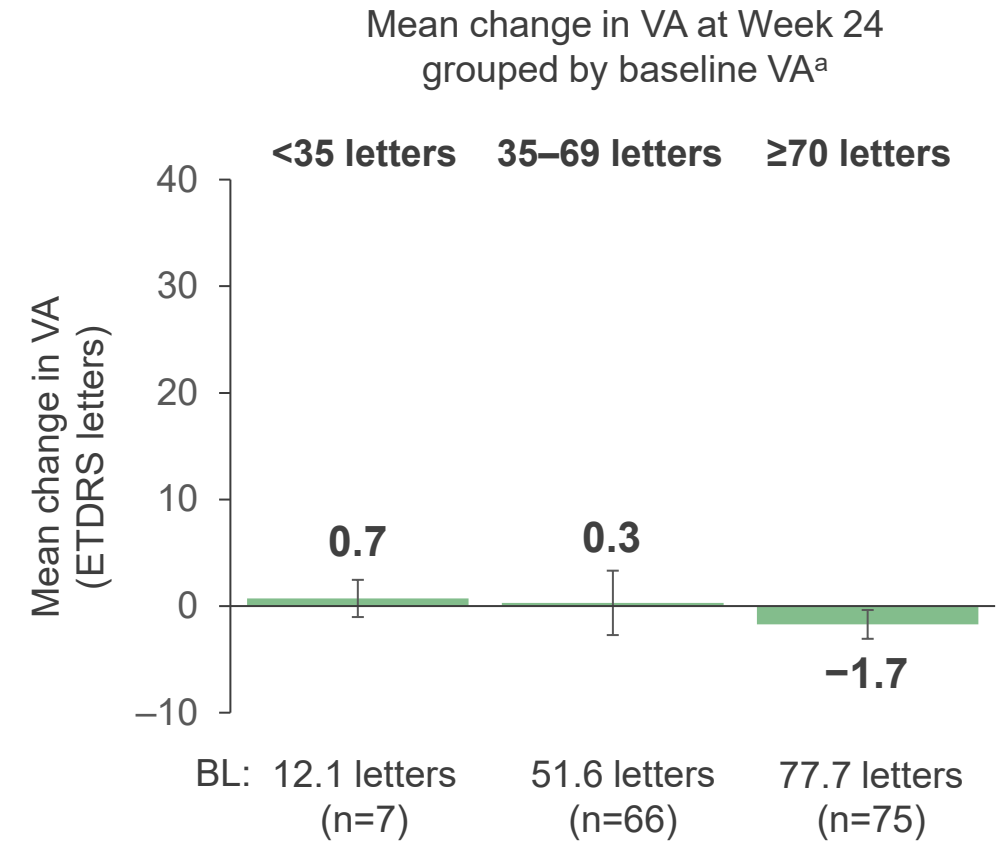


FAS. Percentages may not add up to 100 due to rounding. ^aData are mean±SD unless otherwise indicated. ^bMixed refers to Type 1 and Type 2 MNV combined. ^cData on race were collected for Australia, Canada, Germany, Italy, Japan, Portugal, South Korea, Saudi Arabia, Spain, Switzerland, United Arab Emirates, and the United Kingdom only.

VA through Week 24

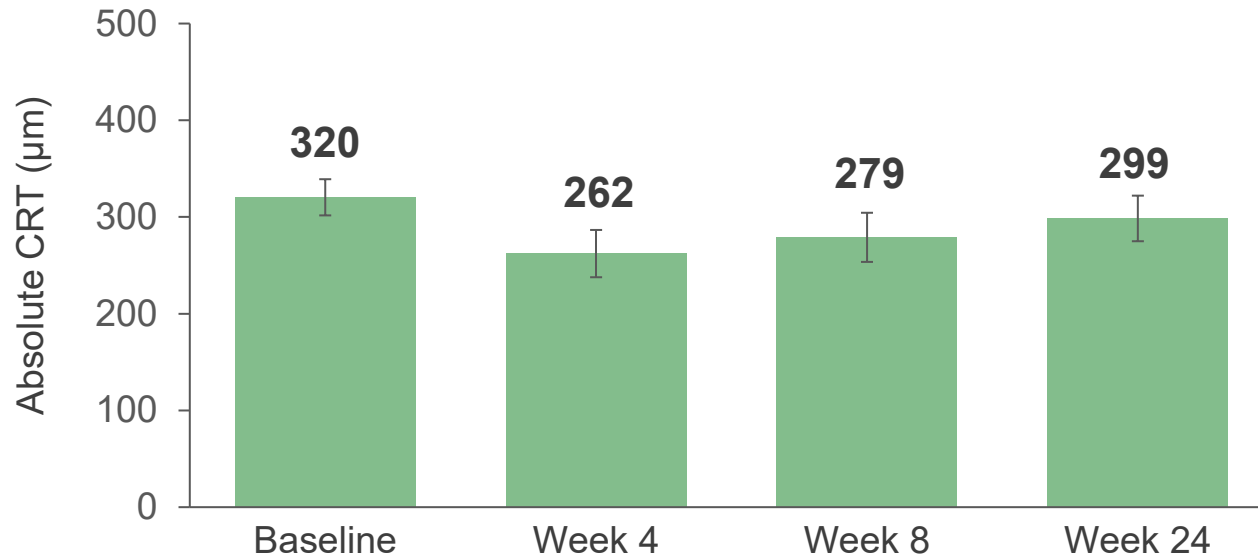


Timepoint	Mean change (95% CI) from baseline (LOCF)
Week 4	1.2 (−0.7, 3.1)
Week 8	0.7 (0.8, 2.1)
Week 24	−0.7 (−2.2, 0.8)

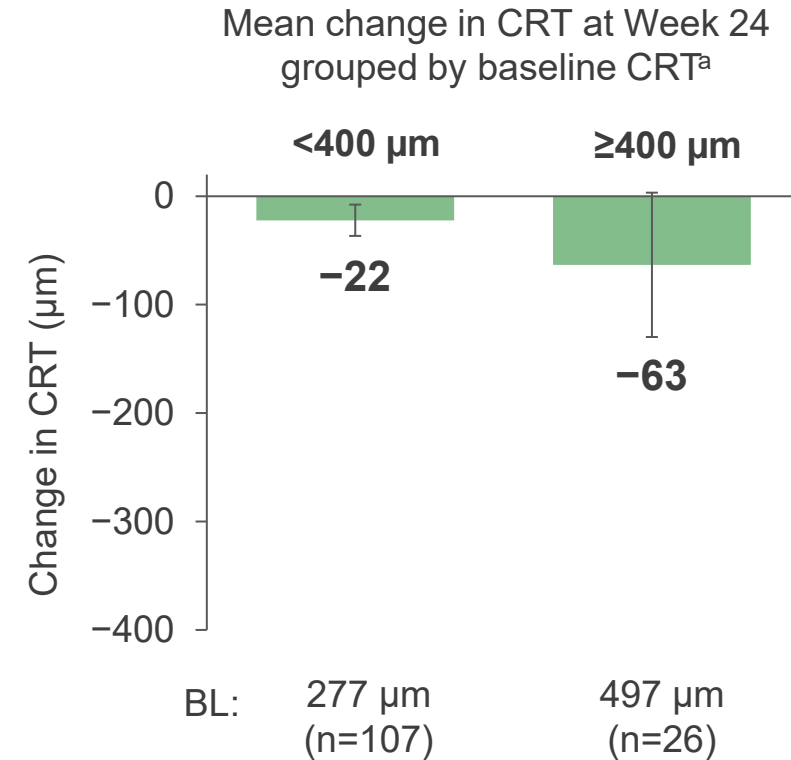


Patients received a mean of **4.4 injections** up to **Day 210** from **baseline**

CRT through Week 24



Timepoint	Mean change (95% CI) from baseline (LOCF)
Week 4	-48 (-77, -20)
Week 8	-41 (-63, -18)
Week 24	-31 (-50, -13)



The proportion of **patients without IRF** increased from a **baseline of 44.5% to 61.3% at Week 24**



Safety overview: Adverse events

Ocular TEAEs, n (%)	TN nAMD (N=150)	PT nAMD (N=150)
Any ocular TEAEs in the study eye ^a	22 (14.7)	21 (14.0)
Any serious ocular TEAEs	3 (2.0)	3 (2.0)
Non-ocular TEAEs, n (%)		
Any non-ocular TEAEs	9 (6.0)	6 (4.0)
Any serious non-ocular TEAEs	3 (2.0)	2 (1.3)



No cases of retinal vasculitis were reported

SAF. ^aThe eye treated with aflibercept 8 mg was considered the study eye; if aflibercept 8 mg treatment was decided simultaneously for both eyes, the study eye was considered the worse eye at the attending physician's discretion.

SAF, safety analysis set; TEAE, treatment-emergent adverse event.



Week 24 results from SPECTRUM support the real-world effectiveness and safety of aflibercept 8 mg in patients with treatment-naïve and previously treated nAMD



More than **3700** patients enrolled in SPECTRUM across **18 countries** and **enrollment is now complete**



More than **1100** patients enrolled in each of the global **treatment-naïve and previously treated nAMD cohorts** across **16 countries**



Clinical and safety outcomes at Week 24 in the global treatment-naïve nAMD cohort

- Improved VA and CRT from baseline
- Reductions in IRF
- Results achieved with a mean of 4.7 injections up to Day 210
- No new safety signals



Clinical and safety outcomes at Week 24 in the global previously treated nAMD cohort

- Stable VA and improved CRT following switch to aflibercept 8 mg
- Reductions in IRF
- Results achieved with a mean of 4.4 injections up to Day 210
- No new safety signals

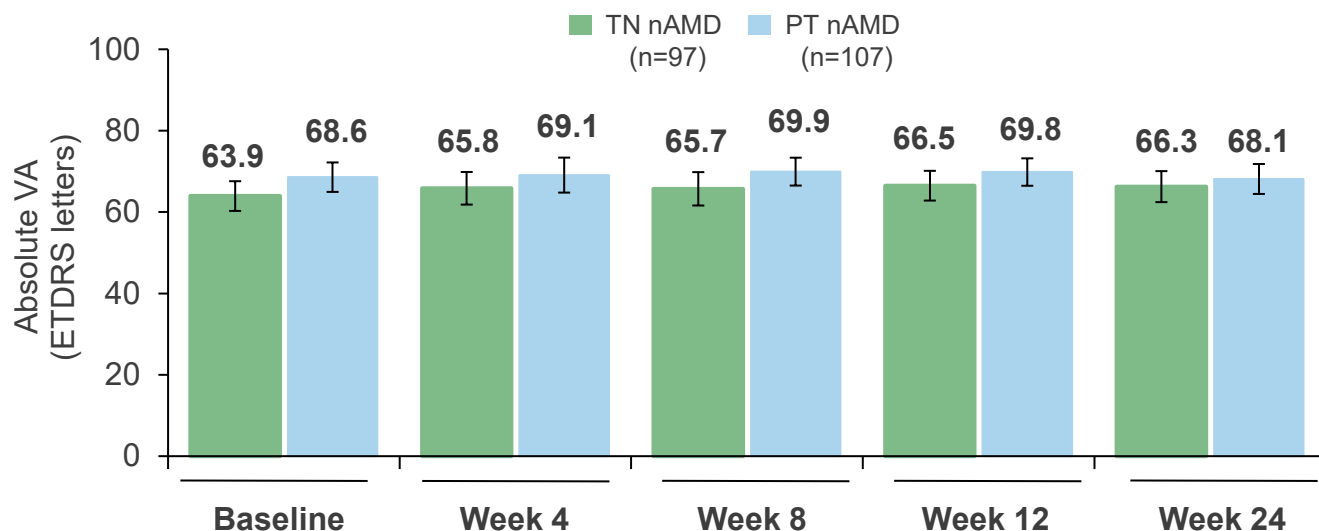


As the **first global real-world study of aflibercept 8 mg**, Week 24 results from SPECTRUM will help to **inform clinical management** of previously treated and treatment-naïve nAMD in patients receiving aflibercept 8 mg

Month 12 and Month 24 analyses are on track



Country cohort analyses from Switzerland support the effectiveness and safety of aflibercept 8 mg in patients with nAMD



Timepoint	Mean (95% CI) change in VA from baseline (LOCF)	
	TN nAMD	PT nAMD
Week 4	2.2 (-0.1, 4.6)	1.0 (-0.8, 2.9)
Week 8	2.3 (0, 4.7)	0.5 (-0.9, 1.8)
Week 12	2.6 (0.4, 4.7)	1.2 (-0.9, 3.4)
Week 24	2.3 (-0.4, 5.0)	-0.4 (-2.4, 1.5)

SPECTRUM Swiss TN nAMD cohort (n=97)



Improved CRT (-112 µm change from BL of 360 µm)



Increase in patients without IRF from 46.8% at BL to 68.8% at W24



Increase in patients without SRF from 17.7% at BL to 72.2% at W24



Results achieved with 4.8 injections^a

SPECTRUM Swiss PT nAMD cohort (n=107)



Improved CRT (-39 µm change from BL of 315 µm) **following switch to aflibercept 8 mg**



Increase in patients without IRF from 50.5% at BL to 67.3% at W24



Increase in patients without SRF from 34.0% at BL to 57.1% at W24

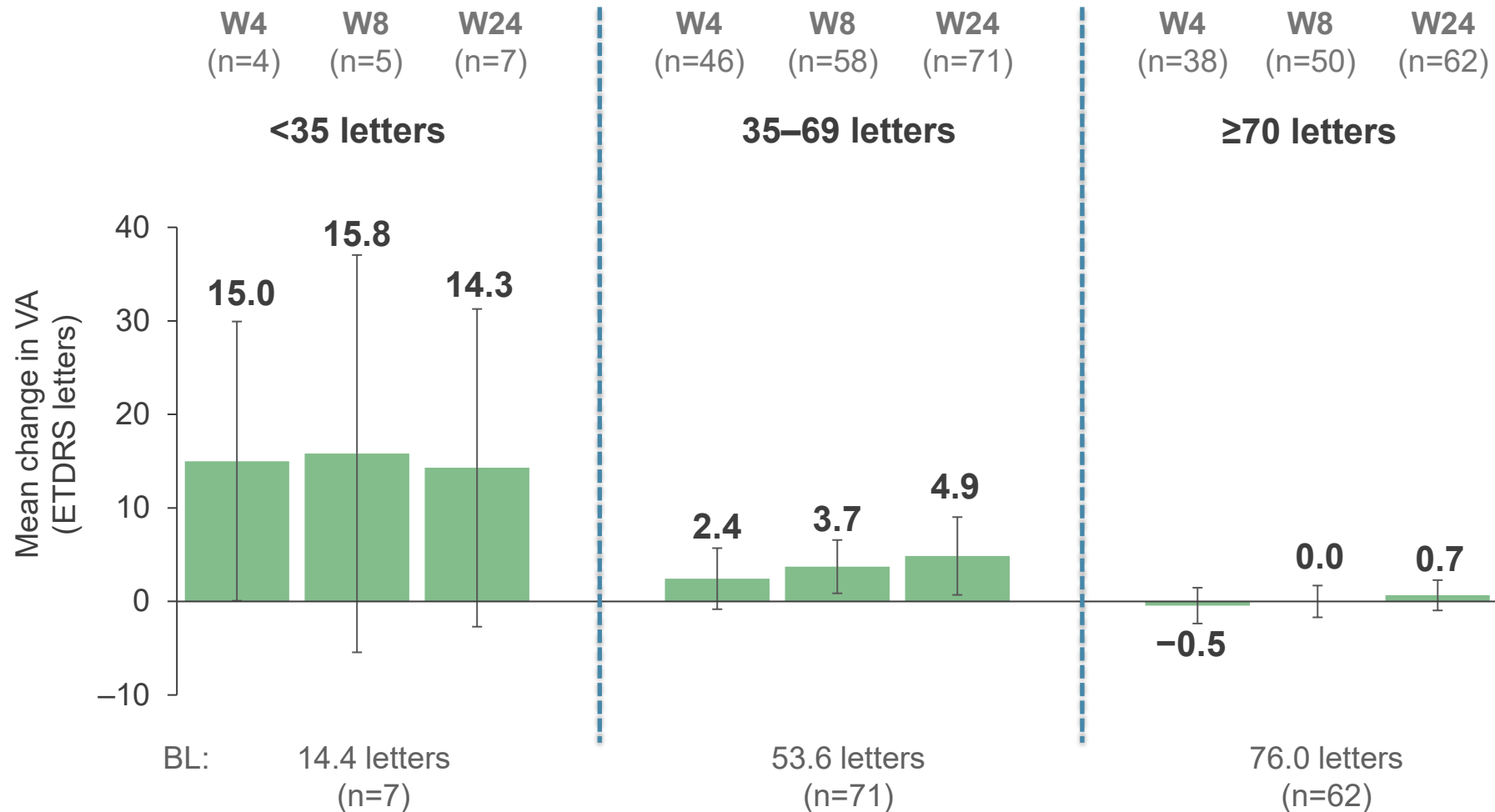


Results achieved with 4.4 injections^a

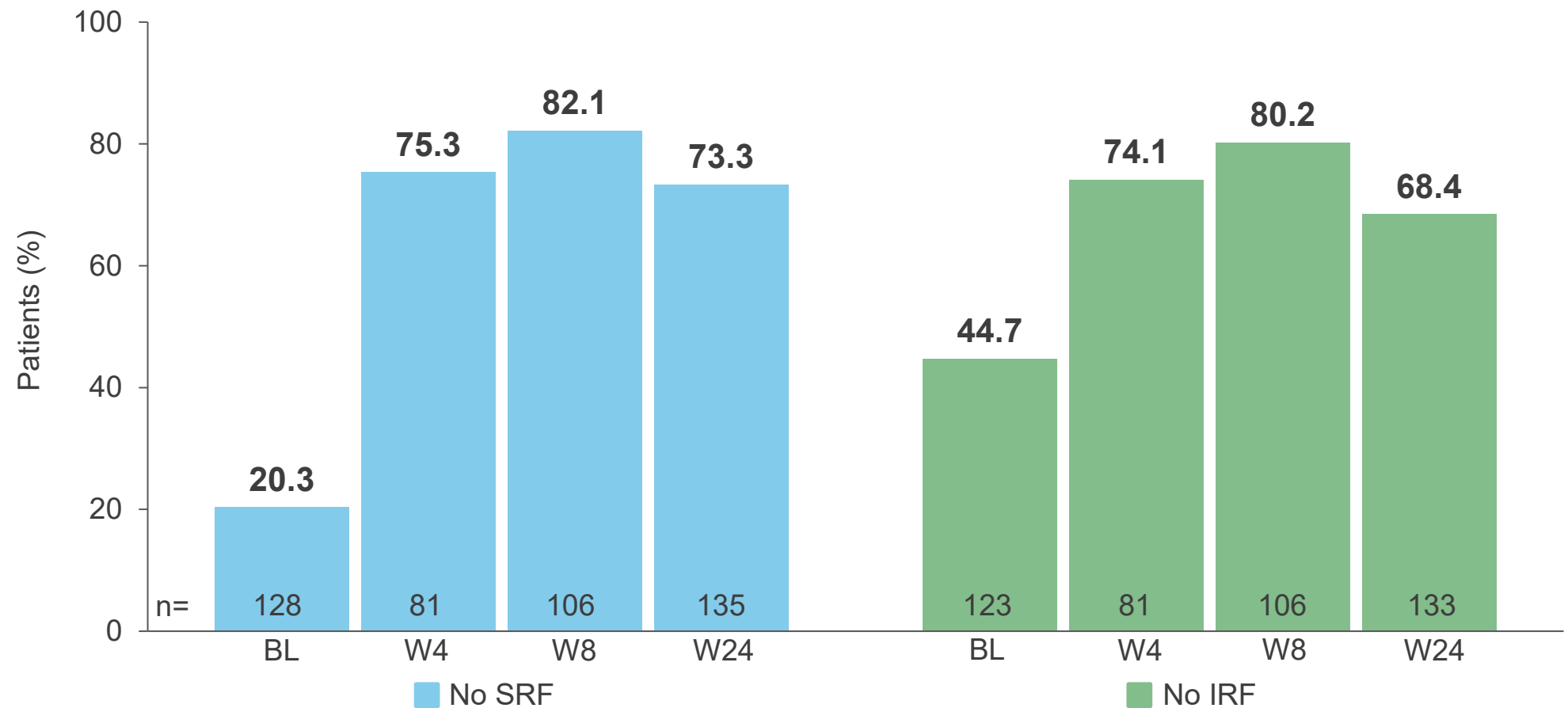


No cases of endophthalmitis or retinal vasculitis

Mean change in VA through Week 24 grouped by baseline VA

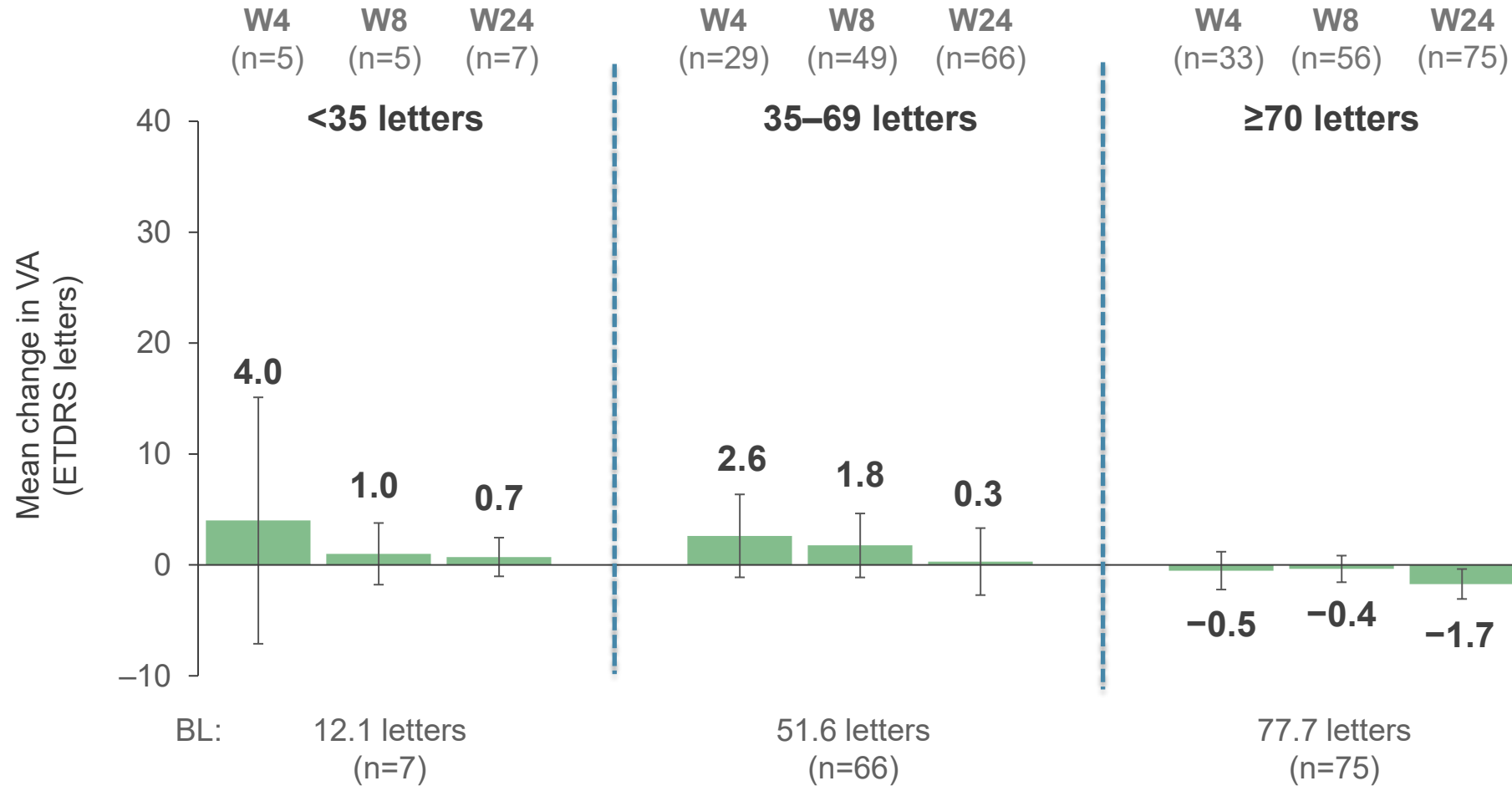


Proportion of patients without SRF or IRF through Week 24^a

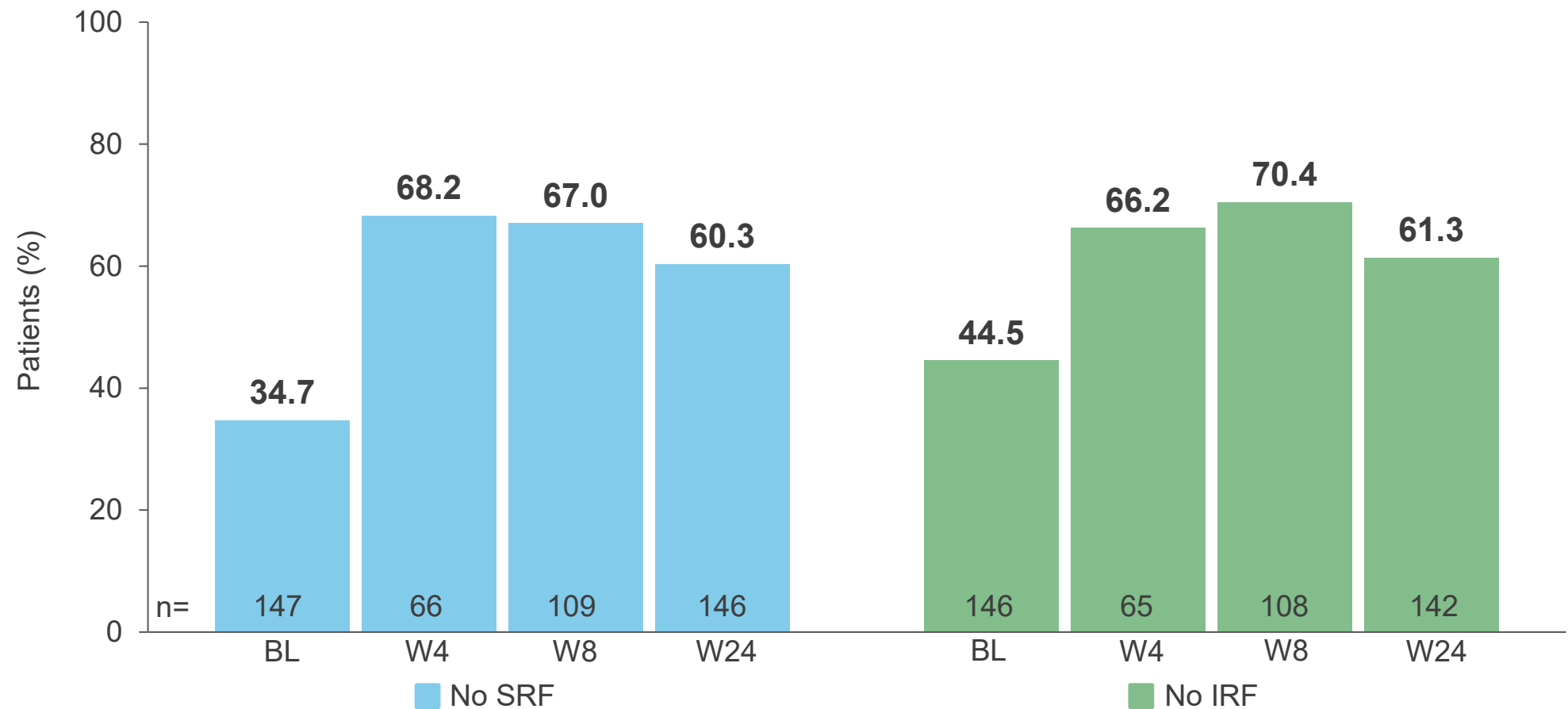


FAS, LOCF. Missing values were imputed using the LOCF approach. Values have been rounded to the nearest decimal point. Based on instructions in the case report form, fluid data were collected during a macular assessment (6 mm) at the investigator's discretion. ^aCalculated based on the number of patients assessed at each timepoint.

Mean change in VA through Week 24 grouped by baseline VA



Proportion of patients without SRF or IRF through Week 24^a



FAS, LOCF. Missing values were using with the LOCF approach. Values have been rounded to the nearest decimal point. Based on instructions in the case report form, fluid data were collected during a macular assessment (6 mm) at the investigator's discretion. ^aCalculated based on the number of patients assessed at each timepoint.