

Preliminary Results of the OPERA I and OPERA II Open-Label Extension Study

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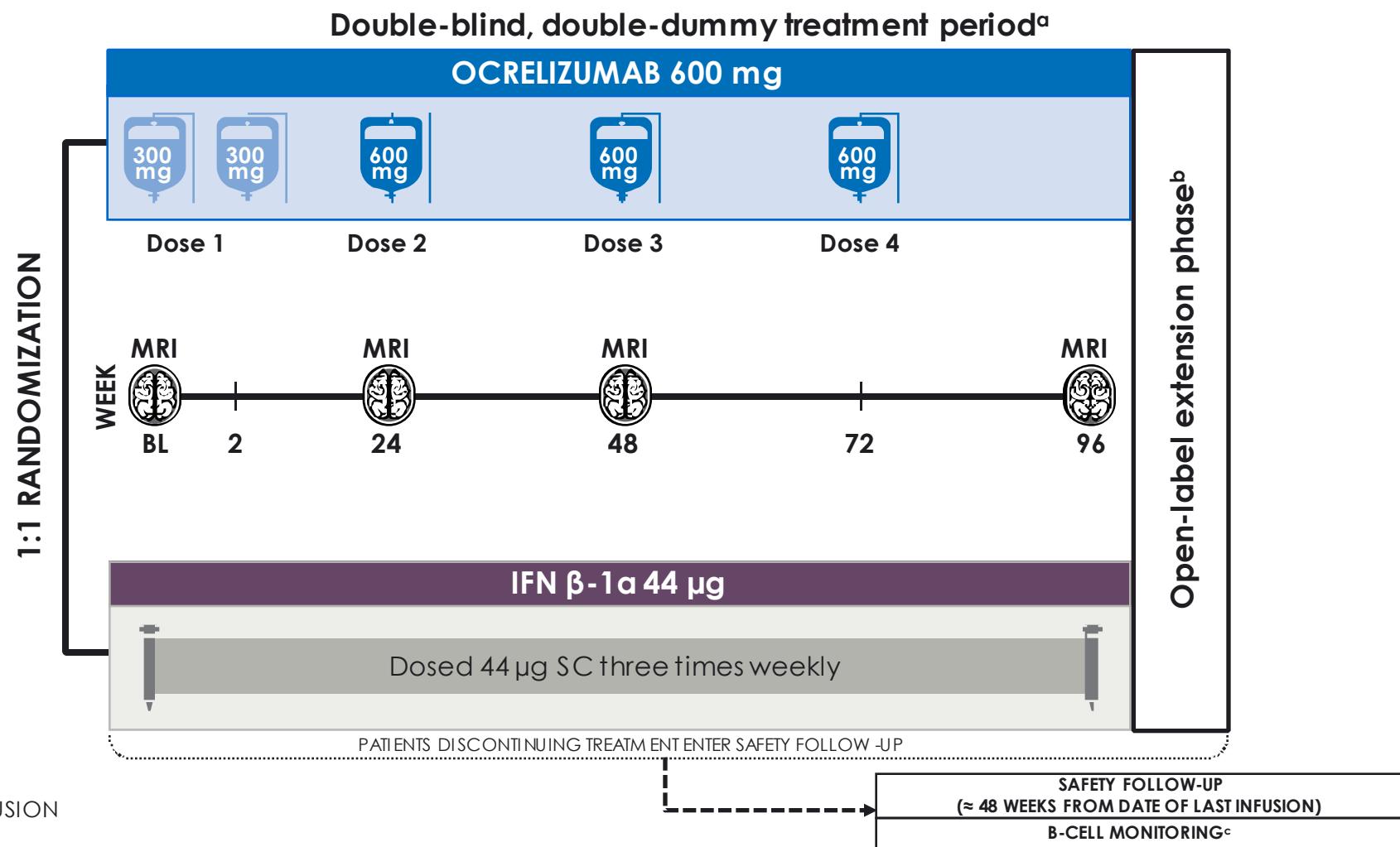
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Objective

- To provide a preliminary update on the clinical and MRI metrics of disease activity, including ARR, T1 Gd-enhancing lesions, and new/enlarging T2 lesions from the first year of the open-label extension (OLE) phase of the OPERA studies

OPERA I and OPERA II trials

Study design¹



^aPatients in the ocrelizumab group received placebo injections three times weekly, while patients in the IFN β -1 α group received placebo infusions at Days 1 and 15 and Weeks 24, 48 and 72; ^bOLE to provide ongoing safety, tolerability and efficacy data; ^cOLE phase was not mandatory; ^cContinued monitoring occurs if B cells are not repleted.

BL, baseline; EDSS, Expanded Disability Status Scale; IFN, interferon; IV, intravenous; OLE, open-label extension; RMS, relapsing multiple sclerosis; SC, subcutaneous.
1. Hauser SH, et al. *N Engl J Med* 2017;376:221–234.

Pooled OPERA I and OPERA II Baseline demographics and disease characteristics

| | Double-blind treatment period | |
|--|--|--------------------------|
| | IFN β -1a 44 μ g (n=829) | OCR 600 mg (n=827) |
| Age, yrs, mean (SD) | 37.2 (9.2) | 37.1 (9.2) |
| Female, n (%) | 552 (66.6) | 541 (65.4) |
| Time since MS symptom onset, yrs, mean (SD) | 6.5 (6.1) | 6.7 (6.2) |
| Time since MS diagnosis, yrs, mean (SD) | 3.9 (4.9) | 4.0 (4.9) |
| Relapses in previous 12 months, mean (SD) | 1.3 (0.7) | 1.3 (0.7) |
| Previously untreated, n (%) ^a | 605 (73.0) | 604 (73.0) |
| EDSS, mean (SD) | 2.8 (1.3) | 2.8 (1.3) |
| Number of T1 Gd-enhancing lesions, mean (SD) | 1.9 (5.0) | 1.8 (4.6) |
| Number of T2 lesions, mean (SD) | 51.0 (37.8) | 50.1 (38.8) |

/IT

^aUntreated with disease-modifying therapy in 2 years prior to study entry.

EDSS, Expanded Disability Status Scale; Gd, gadolinium; IFN, interferon; ITT, intention to treat; MS, multiple sclerosis; N/E, new or enlarging; OCR, ocrelizumab.

Ocrelizumab was more effective than interferon β -1a in the Phase III OPERA I and OPERA II trials in relapsing MS

Pooled OPERA studies: results from the 96-week double-blind treatment period^a

| | IFN β -1a 44 μ g (n=829) | OCR 600 mg (n=827) |
|--|--|--------------------------|
| ARR at Week 96 (95%CI) | 0.29 (0.25–0.34) | 0.16 (0.13–0.19) |
| Relative reduction (p-value) | | 47% (<0.001) |
| Mean no. of T1 Gd-enhancing lesions per MRI scan by Week 96 (95%CI) | 0.36 (0.28–0.45) | 0.02 (0.01–0.03) |
| Relative reduction (p-value) | | 94% (<0.001) |
| Mean no. of new/enlarging T2 hyperintense lesions per MRI scan by Week 96 (95% CI) | 1.68 (1.44–1.97) | 0.33 (0.28–0.39) |
| Relative reduction (p-value) | | 80% (<0.001) |

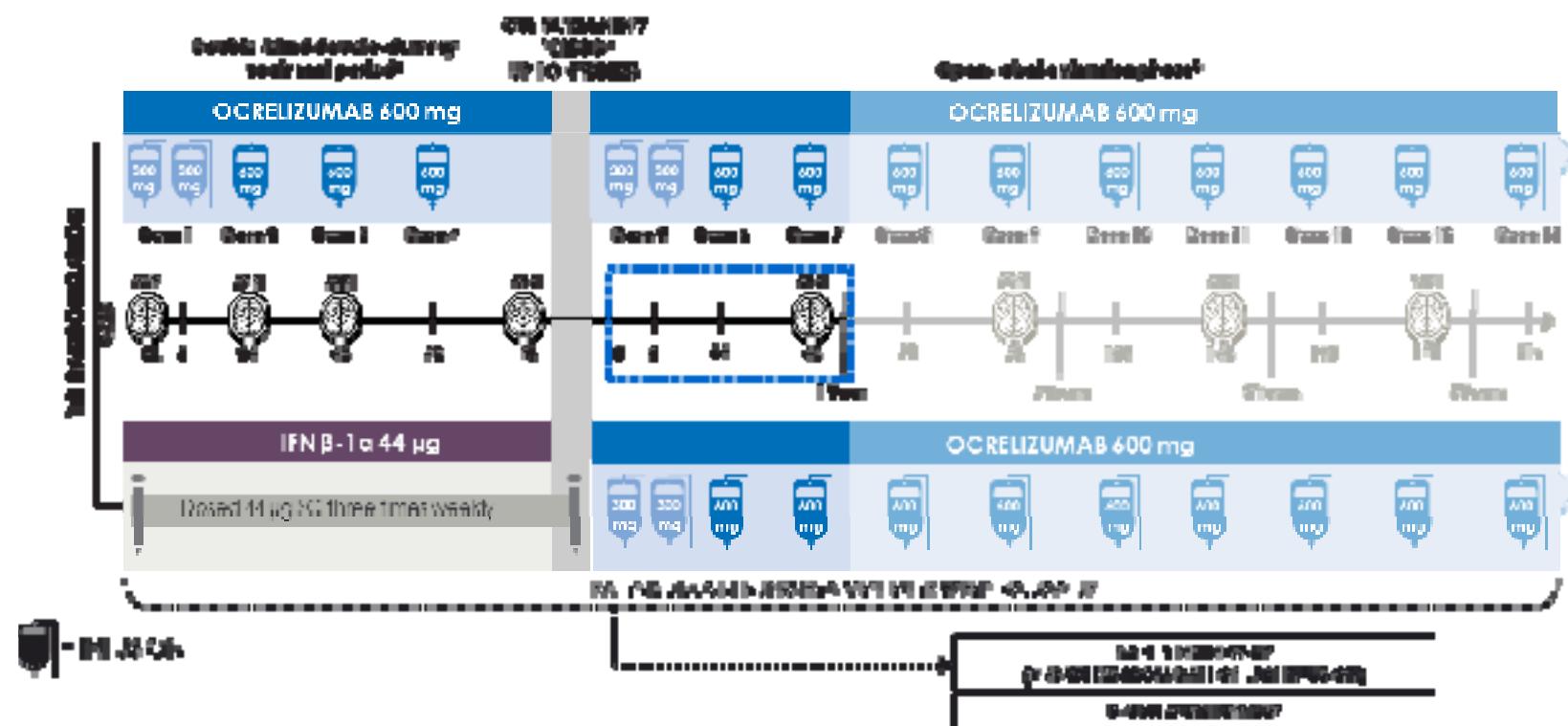
In the pooled OPERA I and OPERA II studies, ocrelizumab was more effective than IFN β -1a on clinical and imaging metrics of disease activity in patients with relapsing MS¹

^aThe pooled OPERA outcomes shown here pertain to the analyses in this presentation and are not ordered per the hierarchical statistical analysis plan.

ARR, annualized relapse rate; Gd, gadolinium; IFN, interferon; MS, multiple sclerosis.

1. Hauser SL, et al. AAN 2016; Platform presentation S49.003.

OPERA I and OPERA II open-label extension phase Study design



- In the open-label extension phase, the first 600-mg dose of ocrelizumab was administered as two 300-mg infusions given two weeks apart
 - Patients received methylprednisolone prior to each infusion
 - Optional prophylactic treatment with an analgesic/antipyretic and IV or oral antihistaminic 30 to 60 minutes before an infusion was offered to all patients

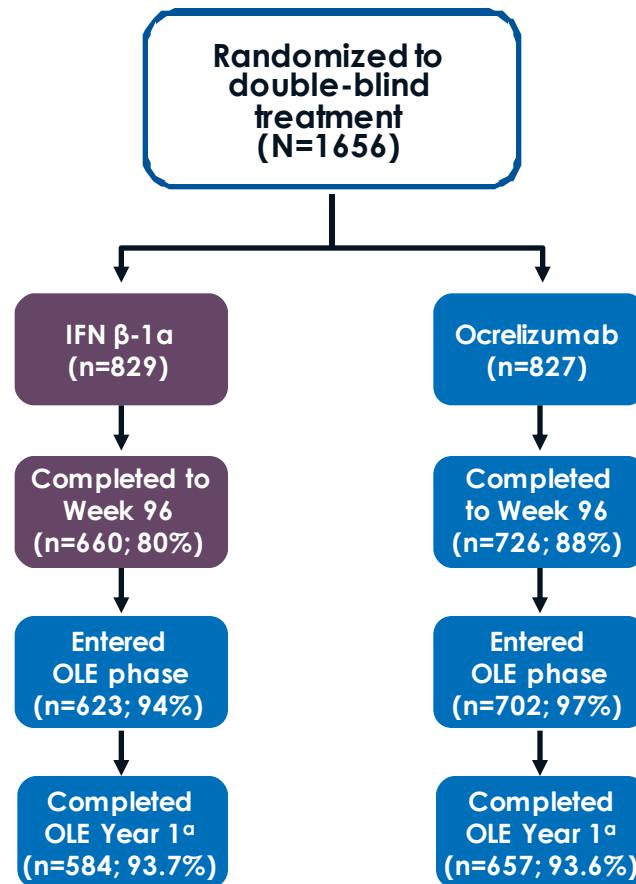
^aPatients in the ocrelizumab group received placebo injections three times weekly, while patients in the IFN β -1a group received placebo infusions at Days 1 and 15 and Weeks 24, 48 and 72; ^bOLE was not mandatory. Patients who declined to participate in the OLE entered safety follow-up; ^cContinued monitoring occurs if B cells are not repleted.

IFN, interferon; IV, intravenous; OLE, open-label extension; SC, subcutaneous.

Adapted from Kuhelj R, et al. EAN 2016;Poster P11192.

OPERA I and OPERA II open-label extension phase Patient disposition

Pooled OPERA I and OPERA II



^aClinical cut off date, January 20, 2016.

IFN, interferon; OLE, open-label extension.

Pooled OPERA I and OPERA II open-label extension phase Patient demographics and disease characteristics

Pooled OPERA studies: results from the 96-week double-blind treatment period^a

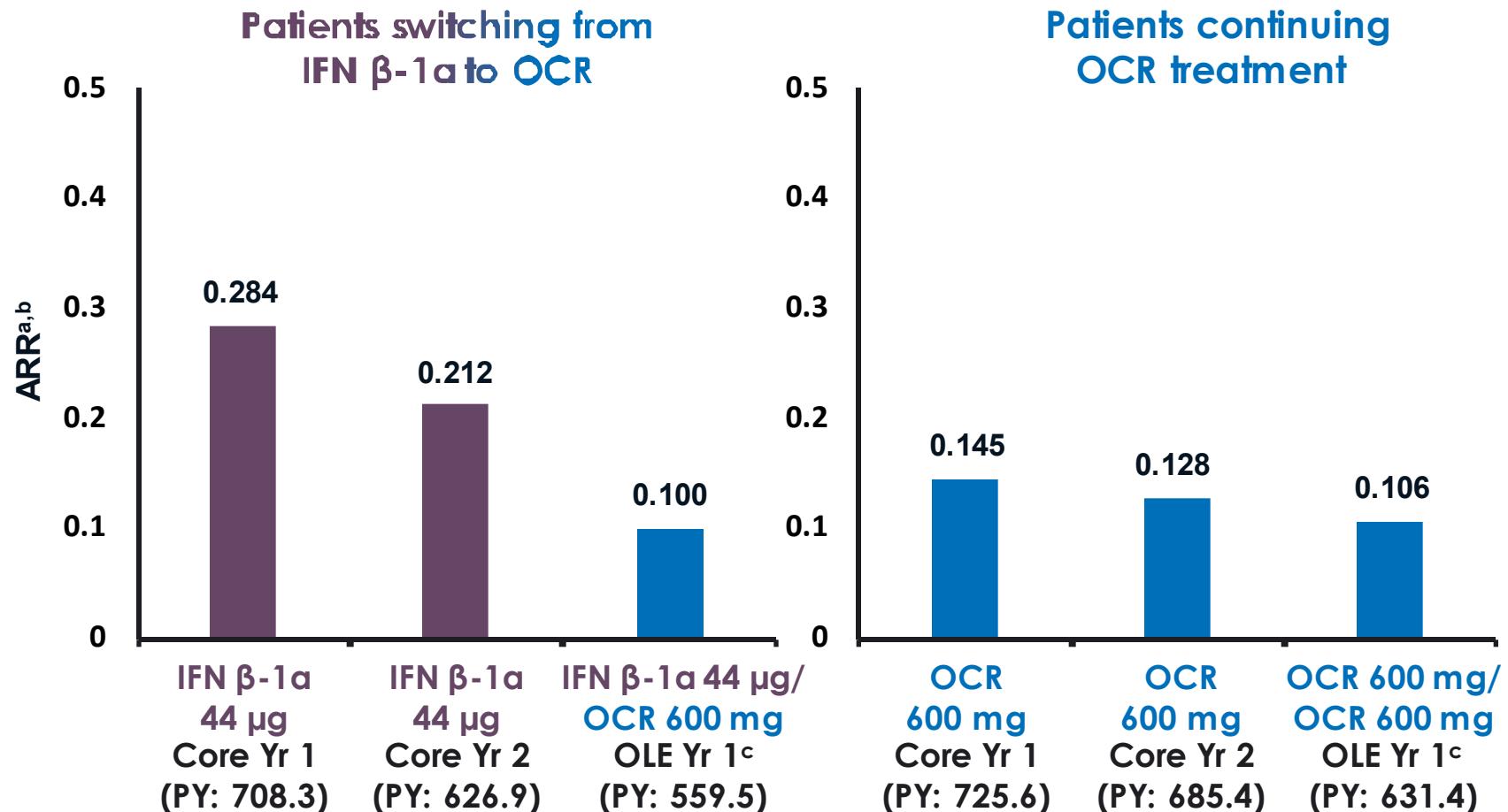
| | IFN β-1a 44 µg/ OCR 600 mg (n=623) | OCR 600 mg/ OCR 600 mg (n=702) |
|---|--|--------------------------------------|
| Age, yrs, mean (SD) | 39.3 (9.2) | 39.2 (9.1) |
| Female, n (%) | 408 (65.5) | 454 (64.7) |
| Time since MS symptom onset, yrs, mean (SD) | 8.3 (6.1) | 8.5 (6.1) |
| Time since MS diagnosis, yrs, mean (SD) | 5.7 (4.8) | 5.8 (4.9) |
| EDSS, mean (SD) | 2.7 (1.5) | 2.6 (1.3) |

The demographics and disease characteristics of the patients who entered the open-label extension phase of the OPERA studies were well balanced

^aDemographics and disease characteristics at Week 96 of the double-blind treatment period are considered baseline for the OLE phase.
EDSS, Expanded Disability Status Scale; IFN, interferon; MS, multiple sclerosis; OCR, ocrelizumab; OLE, open-label extension.

Pooled OPERA I and OPERA II

Preliminary data: ARR in core study Years 1 and 2 and OLE Year 1

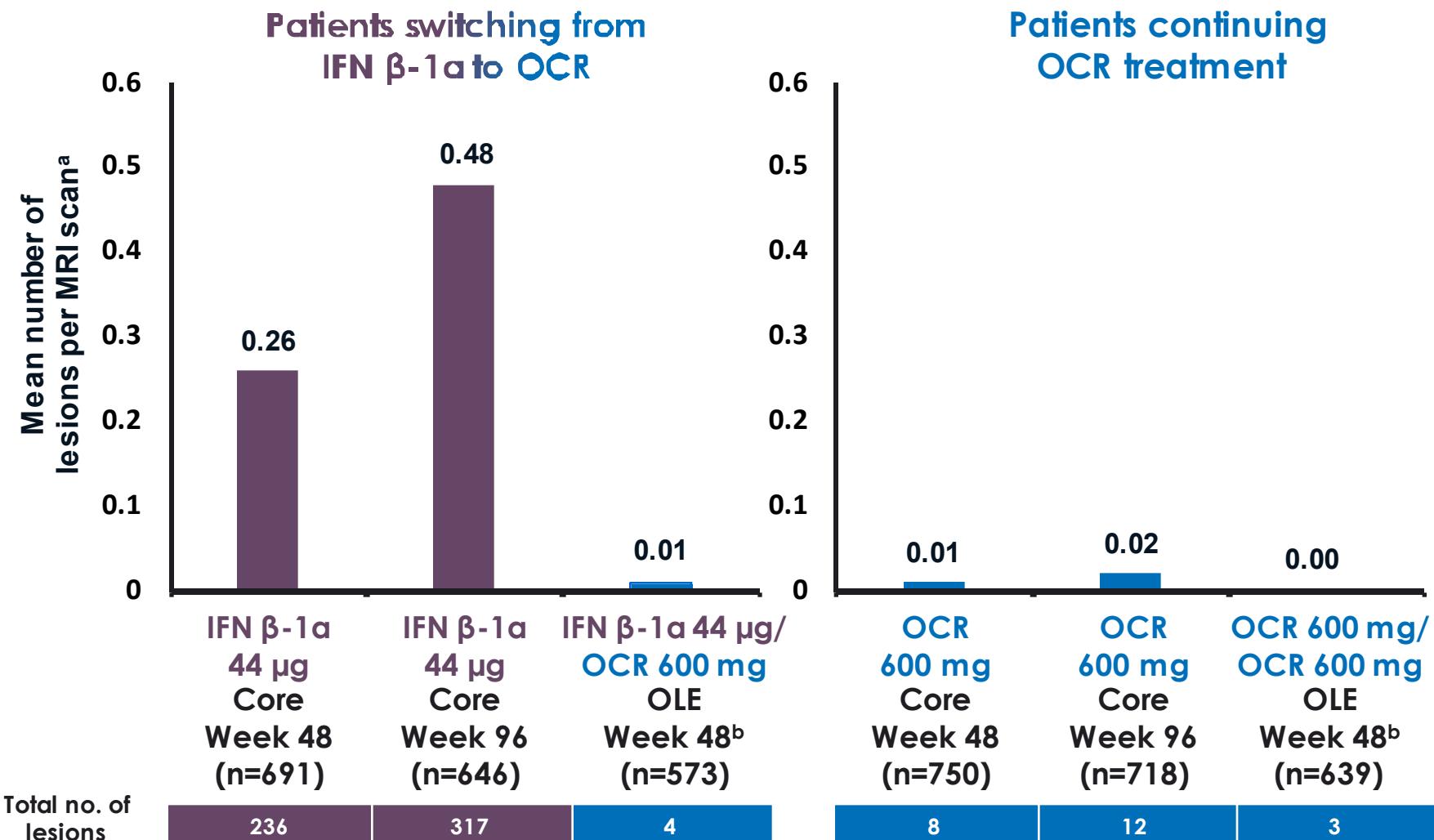


^aThe total number of relapses for all patients in the treatment group divided by the total patient-years of exposure to that treatment; ^bCore Yr 1 and Core Yr 2 data include the ITT population and show the adjusted ARR calculated by negative binomial regression and adjusted for baseline EDSS score (<4.0 vs ≥4.0), and geographic region (US vs ROW). OLE Yr 1 data include the OLE ITT population and show the unadjusted ARR; ^cClinical cut off date, January 20, 2016.

ARR, annualized relapse rate; EDSS, Expanded Disability Status Scale; IFN, interferon; ITT, intention to treat; OCR, ocrelizumab; OLE, open-label extension; PY: patient years; ROW, rest of the world.

Pooled OPERA I and OPERA II

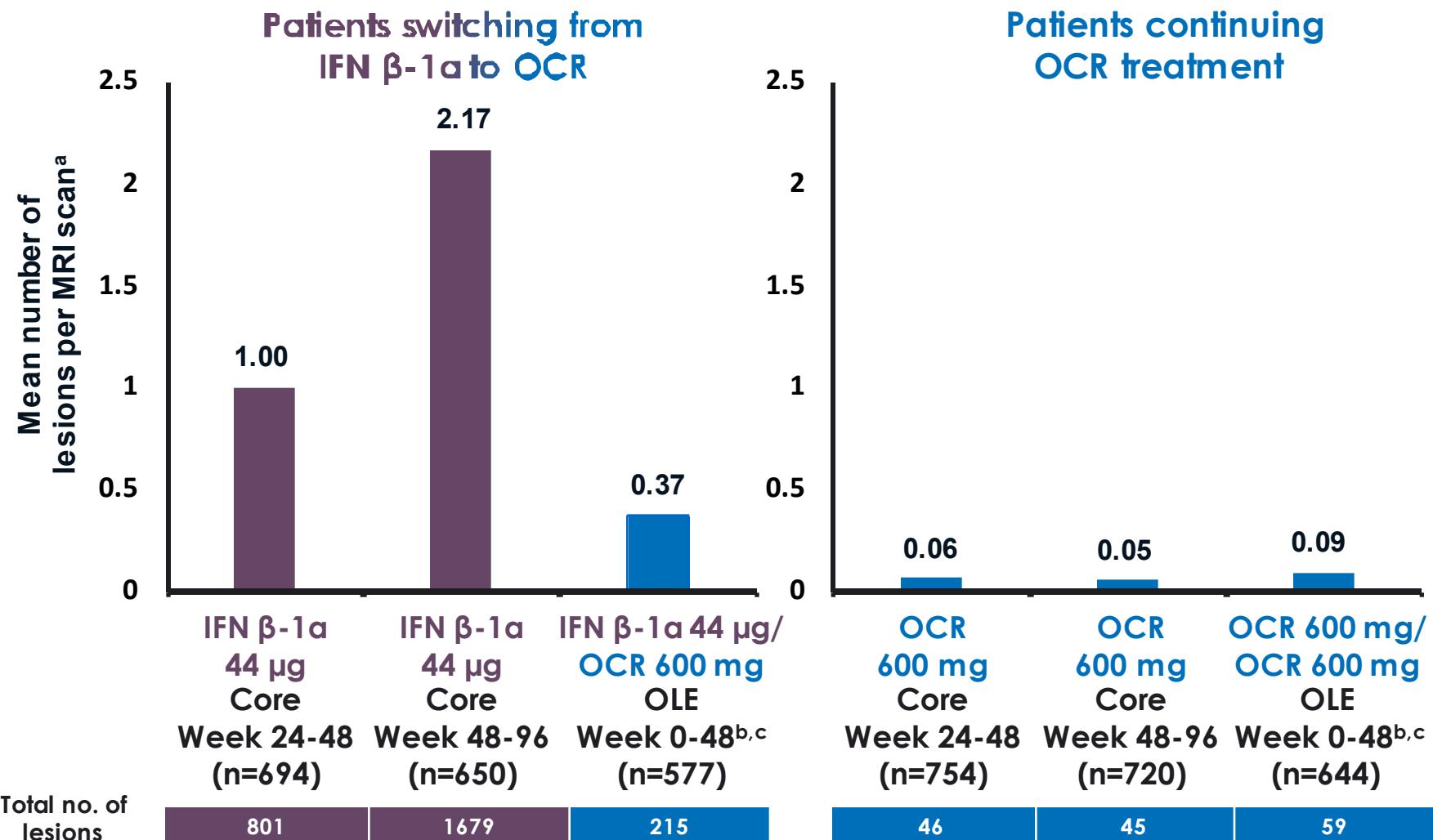
Preliminary data: number of T1 Gd-enhancing lesions in core study at Weeks 48 and 96 and OLE Week 48



^aCore Week 48 and Core Week 96 data include the ITT population; OLE Week 48 data include the OLE ITT population; ^bClinical cut off date, January 20, 2016.
Gd, gadolinium; IFN, interferon; ITT, intention to treat; OCR, ocrelizumab; OLE, open-label extension.

Pooled OPERA I and OPERA II

Preliminary data: number of N/E T2 lesions in core study at Weeks 24-48 and 48-96 and OLE Weeks 0-48



^aCore Week 24-48 and Core Week 48-96 data include the ITT population; OLE Week 0-48 data include the OLE ITT population; ^bDue to lack of Week 24 assessment, OLE Week 0-48 data include initial residual T2 accumulation; ^cClinical cutoff date, January 20, 2016.

IFN, interferon; ITT, intention to treat; N/E, new or enlarging; OCR, ocrelizumab; OLE, open-label extension.

Conclusions

- More than 94% of patients who completed the double-blind treatment period of the OPERA studies entered the OLE phase and reached the 48-week OLE milestone
- Patients who switched from interferon beta-1a to ocrelizumab in the OLE phase experienced reductions in ARR, T1 Gd-enhancing lesions and new/enlarging T2 lesions
 - These outcomes are consistent with patients who received ocrelizumab in the double-blind treatment period of the OPERA studies
- The beneficial effects of ocrelizumab during the double-blind treatment period persisted in patients who continued on ocrelizumab during the OLE phase, demonstrating the sustained benefit of ocrelizumab treatment
- Additional data from the OPERA I and OPERA II OLE phase are forthcoming, including metrics of disease progression

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MMA of Ministry of Defense of Russia named after S.M. Kirov
Regional Multiple Sclerosis Centre b/o CC ECM (Neftyanik)
SHI Sverdlovsk Regional Clinical Hospital #1
Central Clinical Hospital #2 named after N.A. Semashko
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