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# Efficacy and Safety of Fenebrutinib vs Teriflunomide in Relapsing Multiple Sclerosis: Results of the FENhance 1 and 2 Studies

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FENhance 1 (NCT04586010) and FENhance 2 (NCT04586023)

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# Disclosures

- **J. Oh** has received compensation for consulting/speaking from Biogen, BMS, Eli Lilly, EMD Serono, F. Hoffmann-La Roche Ltd, Novartis and Sanofi Genzyme and research funding from Biogen and F. Hoffmann-La Roche Ltd
- **A. Bar-Or** has received fees for consulting and/or advisory board participation from: AstraZeneca, Biogen, Bristol Myers Squibb, Cabaletta, Capstan, EMD Serono, F. Hoffmann-La Roche Ltd/Genentech, Inc., Gilead, GlaxoSmithKline, Immunic, Moderna, Neuron23, Novartis, Oculis, Sanofi, Sudo and Zenas and grant support to the University of Pennsylvania from Biogen Idec, F. Hoffmann-La Roche Ltd/Genentech, Inc., Merck/EMD Serono and Novartis
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- **Y. Choi, M. Decker-Palmer, A. Loukicheva, N. Hu, J.N. Ratchford, J. Napieralski** and **A. Goodyear** are employees of Genentech, Inc., and shareholders of F. Hoffmann-La Roche Ltd
- **L. Kappos** received no personal compensation; his institutions (University Hospital Basel/Stiftung Neuroimmunology and Neuroscience Basel) have received payments for steering committee, advisory and data safety monitoring board participation, consultancy services and educational activities from Bayer, Biogen, Bristol Myers Squibb, Celltrion Inc, Clene Nanomedicine Inc., Eli Lilly, EMD Serono Research & Development Institute, F. Hoffmann-La Roche Ltd, Galapagos NV, Genentech, Inc., Immunic AG, Janssen, Kiniksa Pharmaceuticals, Merck, Minoryx Therapeutics S.L., MSD Merck Sharp & Dohme AG, Neurostatus UHB AG, Novartis, Sanofi, Shionogi BV, Wellmera AG and Zai Lab and research support from Innosuisse
- **S.L. Hauser** has consulted for BD, Gilead, Moderna, NGM Bio, Nurix Therapeutics, Pheno Therapeutics; previously served on the Board of Directors of Neurona; and currently serves as an advisor to Neurona. Dr Hauser also has received nonfinancial support (travel reimbursement and writing support for meetings and presentations related to anti-CD20 therapy) from F. Hoffmann-La Roche and Novartis AG; he has received no personal compensation from any entity that sells or tests therapeutics for MS

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## Background

# Fenebrutinib Is a Uniquely Designed, CNS-Penetrant, Noncovalent BTKi

- By targeting BTK signaling that is crucial to B-cell and myeloid cell activation,<sup>1,2</sup> BTKis have the potential to address both relapsing and progressive biologies across the MS disease continuum
- Fenebrutinib is a uniquely designed, CNS-penetrant, noncovalent, highly selective BTKi with an optimized PK/PD profile
- Fenebrutinib demonstrated efficacy in the Phase III FENtrepid PPMS study<sup>3,a</sup> relative to ocrelizumab



## Objective

To evaluate the efficacy and safety of fenebrutinib relative to teriflunomide in RMS in the FENhance 1 and 2 trials<sup>b</sup>

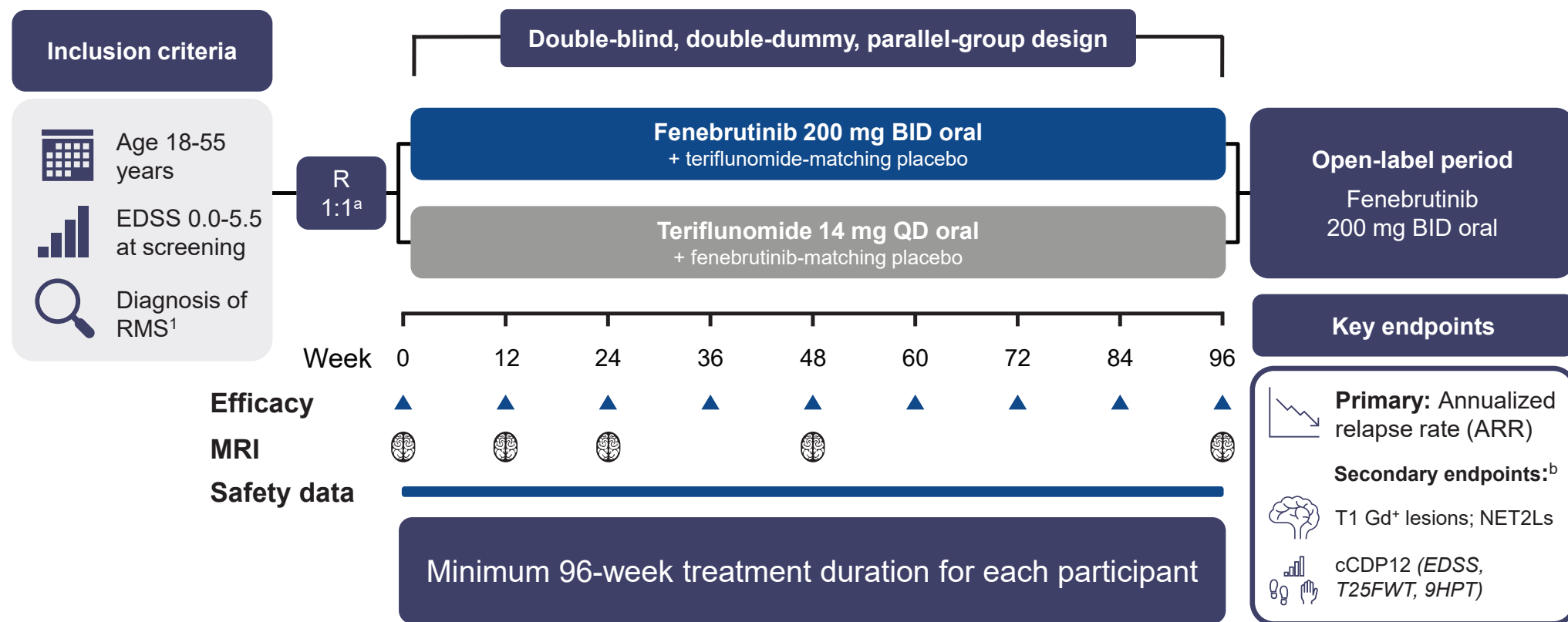
BTK, Bruton's tyrosine kinase; BTKi, Bruton's tyrosine kinase inhibitor; cCDP12, 12-week composite confirmed disability progression; CNS, central nervous system; PK/PD, pharmacokinetic/pharmacodynamic; PPMS, primary progressive multiple sclerosis; RMS, relapsing multiple sclerosis.

<sup>a</sup>NCT05119569. <sup>b</sup>NCT04586010/NCT04586023.

1. Maas A, Hendriks RW. *Dev Immunol* 2001;8:171-181. 2. Whang JA, Chang BY. *Drug Discov Today* 2014;19:1200-1204. 3. Roche. Roche's fenebrutinib is the first investigational medicine in over a decade that reduces disability progression in primary progressive multiple sclerosis (PPMS). News release. Accessed March 2026. <https://www.roche.com/media/releases/med-cor-2026-02-07>

## Study Design

# FENhance 1 and 2 Are Two Largely Identical, Phase III, Multicenter, Randomized Studies



9HPT, 9-Hole Peg Test; ARR, annualized relapse rate; BID, twice daily; cCDP12, 12-week composite confirmed disability progression; EDSS, Expanded Disability Status Scale; Gd<sup>+</sup>, gadolinium enhancing; NET2L, new or enlarging T2 lesion; QD, once daily; R, randomized; RMS, relapsing multiple sclerosis; T25FWT, Timed 25-Foot Walk Test.

<sup>a</sup>Stratification factors: presence of T1 Gd<sup>+</sup> lesions at baseline, baseline EDSS score (<4.0 vs ≥4.0) and region (US vs rest of world). <sup>b</sup>For each study, the statistical testing order was ARR, T1 Gd<sup>+</sup> lesions, NET2Ls and cCDP12. A pre-specified analysis was conducted on pooled cCDP12, a post-hoc analysis was conducted on modified cCDP12. 1. Thompson AJ, et al. *Lancet Neurol* 2018;17:162-173.

## Baseline Demographics and Disease Characteristics

### Baseline Characteristics Were Well Matched Between Treatment Arms and Across Studies

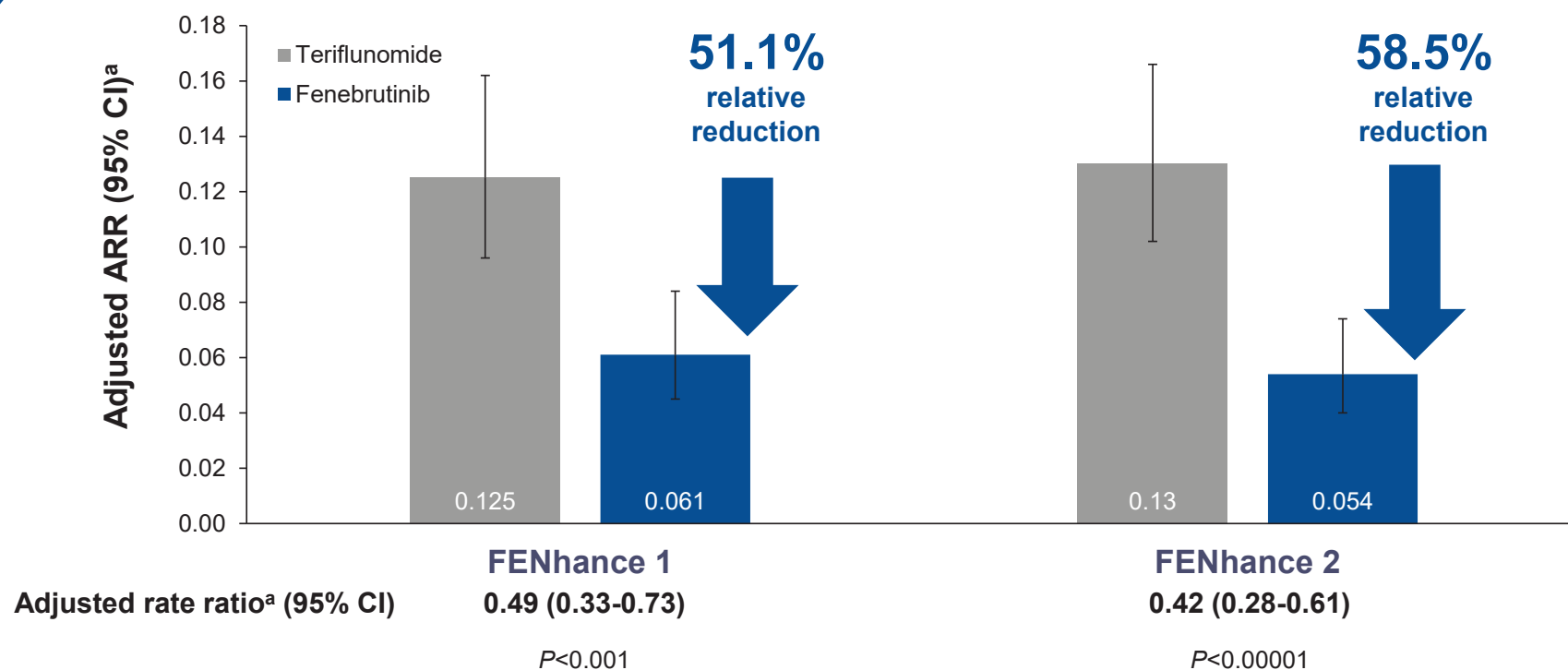
|                                                                 | FENhance 1              |                          | FENhance 2              |                          |
|-----------------------------------------------------------------|-------------------------|--------------------------|-------------------------|--------------------------|
|                                                                 | Fenebrutinib<br>(n=374) | Teriflunomide<br>(n=372) | Fenebrutinib<br>(n=376) | Teriflunomide<br>(n=375) |
| Age, mean (SD), years                                           | 36.1 (9.4)              | 35.8 (9.5)               | 36.4 (9.4)              | 34.8 (9.2)               |
| Female, n (%)                                                   | 232 (62.0)              | 253 (68.0)               | 264 (70.2)              | 246 (65.6)               |
| Time since symptom onset,<br>median (range), years              | 3.8 (0.2-29.2)          | 3.4 (0.1-33.2)           | 3.9 (0.1-36.4)          | 2.6 (0.1-30.8)           |
| Time since RMS diagnosis,<br>median (range), years              | 1.1 (0.1-29.2)          | 1.2 (0.1-33.2)           | 1.0 (0.0-28.2)          | 0.6 (0.0-26.5)           |
| Prior DMT use, n (%) <sup>a</sup>                               | 56 (15.0)               | 61 (16.4)                | 80 (21.3)               | 73 (19.5)                |
| Participants with T1 Gd <sup>+</sup> lesions at baseline, n (%) | 126 (33.7)              | 126 (33.9)               | 119 (31.6)              | 116 (30.9)               |
| EDSS score, median (range)                                      | 2.5 (0.0-6.0)           | 2.5 (0.0-5.5)            | 2.5 (0.0-6.0)           | 2.0 (0.0-6.0)            |
| T25FWT, median (range), seconds                                 | 5.5 (3.0-180.0)         | 5.5 (3.0-180.0)          | 5.5 (3.0-180.0)         | 5.0 (3.0-180.0)          |
| 9HPT, median (range), seconds                                   | 22.1 (13.2-71.4)        | 21.0 (12.7-56.4)         | 21.3 (13.7-78.3)        | 21.1 (11.5-54.8)         |

9HPT, 9-Hole Peg Test; DMT, disease-modifying therapy; EDSS, Expanded Disability Status Scale; Gd<sup>+</sup>, gadolinium enhancing; RMS, relapsing multiple sclerosis; T25FWT, Timed 25-Foot Walk Test.

<sup>a</sup>Defined as any DMT use in the year before screening or any anti-CD20 use in the 3 years before screening.

## Primary Endpoint

Fenebrutinib Significantly Reduced ARR Relative to Teriflunomide, Translating to an Average of One Relapse Approximately Every 16-19 Years



ARR, annualized relapse rate; EDSS, Expanded Disability Status Scale; Gd<sup>+</sup>, gadolinium enhancing.

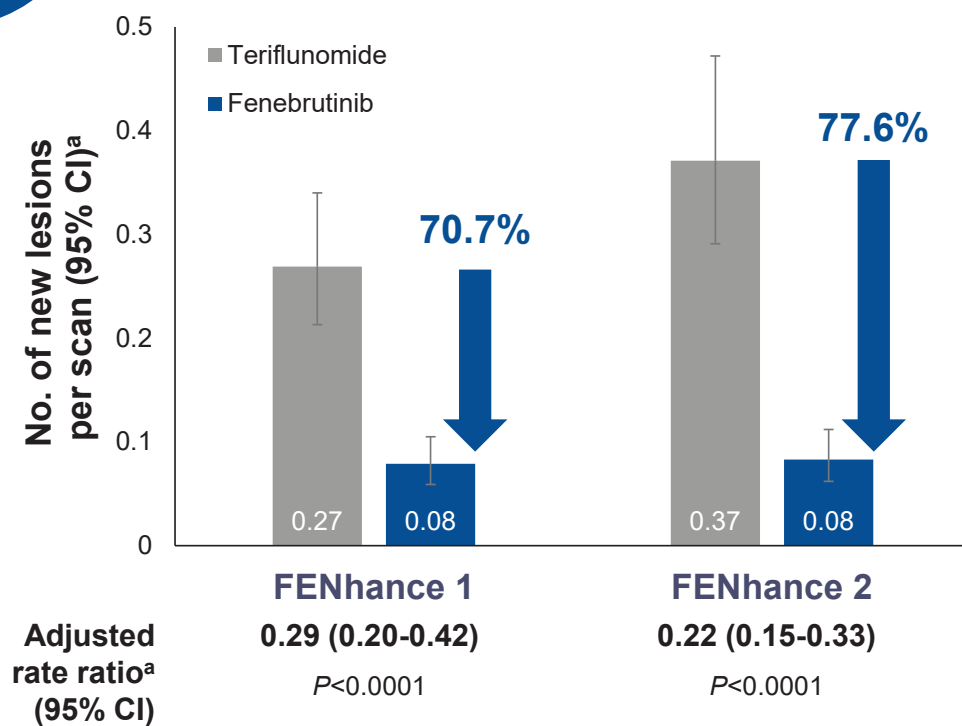
<sup>a</sup>Adjusted for the presence of T1 Gd<sup>+</sup> lesions and EDSS score (<4.0 vs ≥4.0) at baseline. In FENhance 2, EDSS score was removed due to non-convergence of the model.

## Secondary Endpoints

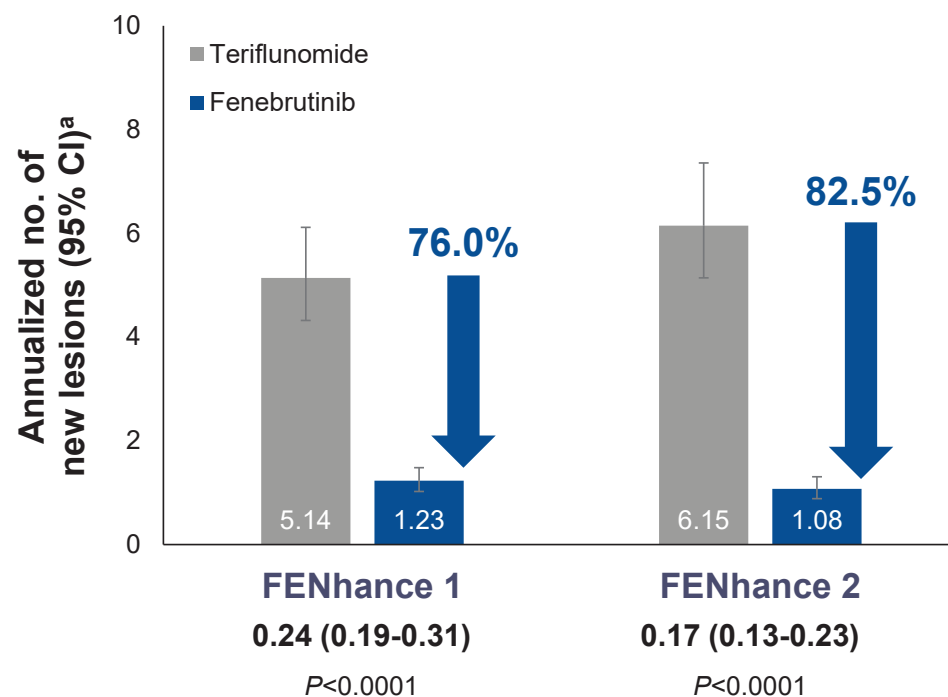
# Fenebrutinib Reduced the Number of New Brain MRI Lesions Compared With Teriflunomide



### T1 Gd<sup>+</sup> Lesions



### New or Enlarging T2 Lesions



EDSS, Expanded Disability Status Scale; Gd<sup>+</sup>, gadolinium enhancing.

<sup>a</sup>Adjusted for the presence of T1 Gd<sup>+</sup> lesions and EDSS score (<4.0 vs ≥4.0) at baseline.

## Secondary Endpoint and Post Hoc Analysis

### cCDP12 Endpoints Demonstrated a Consistent Trend Favoring Fenebrutinib



#### cCDP12<sup>a</sup>

HR (95% CI)

FENhance 1 0.80 (0.63-1.02)

FENhance 2 0.87 (0.69-1.11)

**Pooled 0.84 (0.71-0.99)**

0 0.5 1 1.5 2

Favors fenebrutinib

Favors teriflunomide

#### Post hoc modified cCDP12 (EDSS + 9HPT)

HR (95% CI)

FENhance 1 0.74 (0.53-1.03)

FENhance 2 0.80 (0.57-1.12)

**Pooled 0.77 (0.61-0.97)**

0 0.5 1 1.5 2

Favors fenebrutinib

Favors teriflunomide

9HPT, 9-Hole Peg Test; cCDP12, 12-week composite confirmed disability progression; EDSS, Expanded Disability Status Scale; HR, hazard ratio; T25FWT, Timed 25-Foot Walk Test.

<sup>a</sup>Defined as  $\geq 1.0$  or  $\geq 0.5$ -point increase in EDSS, with baseline EDSS  $\leq 5.5$  or  $> 5.5$ , respectively; or  $\geq 20\%$  increase from baseline in T25FWT; or  $\geq 20\%$  increase from baseline in 9HPT. Pooled results shown are not  $\alpha$  controlled.

## Safety

### The Safety Profiles of Both Treatments Were Comparable Across Studies

|                                                      | FENhance 1              |                          | FENhance 2              |                          |
|------------------------------------------------------|-------------------------|--------------------------|-------------------------|--------------------------|
|                                                      | Fenebrutinib<br>(n=374) | Teriflunomide<br>(n=371) | Fenebrutinib<br>(n=375) | Teriflunomide<br>(n=374) |
| <b>Participants with ≥1 event, n (%)</b>             |                         |                          |                         |                          |
| Any AE                                               | 338 (90.4)              | 329 (88.7)               | 349 (93.1)              | 327 (87.4)               |
| Serious AE                                           | 32 (8.6)                | 33 (8.9)                 | 42 (11.2)               | 23 (6.1)                 |
| Fatal AE <sup>a</sup>                                | 3 (0.8)                 | 0                        | 4 (1.1)                 | 1 (0.3)                  |
| AE leading to withdrawal from treatment <sup>b</sup> | 38 (10.2)               | 26 (7.0)                 | 16 (4.3)                | 15 (4.0)                 |

- Rates of infections were comparable with fenebrutinib vs teriflunomide in both studies (62.0% vs 63.9% in FENhance 1, 68.3% vs 67.9% in FENhance 2); rates of serious infections were comparable (2.1% vs 2.2% in FENhance 1, 2.7% vs 1.3% in FENhance 2)
- Of the fatal AEs, six were considered not related to study drug by the investigator and two were considered related (pneumonia, neurocryptococcosis gatti)

AE, adverse event, MS, multiple sclerosis.

<sup>a</sup>FENhance 1: diabetic hyperosmolar coma, hemorrhagic stroke, suicide and one death of unknown cause (Death reported outside of AE reporting period; occurred 90 days after last exposure to study treatment; last exposure: 26 June 2025; AE: Sep 24, 2025); FENhance 2 fenebrutinib arm: multiple injuries, suicide, neurocryptococcosis gatti and pneumonia; FENhance 2 teriflunomide arm: subarachnoid hemorrhage. <sup>b</sup>Listing of withdrawals occurring in ≥2 participants: FENhance 1, fenebrutinib arm: hepatic enzyme abnormal (n=6), transaminases increased (n=3), alanine aminotransferase increase (n=2), drug eruption (n=2), headache (n=2), neutropenia (n=2); FENhance 1, teriflunomide arm: hepatic enzyme abnormal (n=5), MS relapse (n=2), neutropenia (n=2); FENhance 2, fenebrutinib arm: hepatic enzyme abnormal (n=6), alanine aminotransferase increased (n=4), aspartate aminotransferase increased (n=2); FENhance 2, teriflunomide arm: hepatic enzyme abnormal (n=3), aspartate aminotransferase increased (n=2), hepatic enzyme increased (n=2).

## Safety

# Transient and Reversible Hepatic Transaminase Elevations Were Comparable Between Arms in Both Studies

| Maximum ALT elevation, n (%)                                                              | FENhance 1                            |                                        | FENhance 2                            |                                        |
|-------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------|---------------------------------------|----------------------------------------|
|                                                                                           | Fenebrutinib<br>(n=372 <sup>a</sup> ) | Teriflunomide<br>(n=368 <sup>a</sup> ) | Fenebrutinib<br>(n=375 <sup>a</sup> ) | Teriflunomide<br>(n=372 <sup>a</sup> ) |
| <b>&gt;3× ULN</b>                                                                         | 27 (7.3)                              | 21 (5.7)                               | 21 (5.6)                              | 21 (5.6)                               |
| >3 to 5× ULN                                                                              | 10 (2.7)                              | 12 (3.3)                               | 9 (2.4)                               | 12 (3.2)                               |
| >5 to 10× ULN                                                                             | 12 (3.2)                              | 6 (1.6)                                | 5 (1.3)                               | 5 (1.3)                                |
| >10 to 20× ULN                                                                            | 3 (0.8)                               | 3 (0.8)                                | 7 (1.9)                               | 4 (1.1)                                |
| >20× ULN                                                                                  | 2 (0.5)                               | 0                                      | 0                                     | 0                                      |
| <b>&gt;3× ULN with bilirubin &gt;2× ULN (Hy's law biochemical definition)<sup>1</sup></b> | 2 (0.5)                               | 1 (0.3)                                | 0                                     | 1 (0.3)                                |
| <b>Hy's law case as confirmed by HAC<sup>b</sup></b>                                      | 1 <sup>c</sup> (0.3)                  | 1 <sup>d</sup> (0.3)                   | 0                                     | 0                                      |

Note: bi-weekly liver monitoring implemented. Cases of >20× ULN occurred before implementation.

ALT, alanine aminotransferase; HAC, Hepatic Assessment Committee; ULN, upper limit of normal.

<sup>a</sup>n denotes number of participants with an assessment. <sup>b</sup>Confirmed if HAC adjudicated a >50% likelihood of a causal relationship to the study drug. <sup>c</sup>Asymptomatic onset on Study Day 29 (before implementation of biweekly liver monitoring).

Adjudicated by HAC as confirmed Hy's law case. <sup>d</sup>Onset on Study Day 57. Heavy alcohol consumption in a participant with a history of alcoholic hepatitis. Adjudicated by HAC as confirmed Hy's law case.

1. US Food and Drug Administration. Guidance for Industry. Drug-induced liver injury: premarketing clinical evaluation. Accessed January 16, 2026. <https://www.fda.gov/media/116737/download>

## Conclusions

- Fenebrutinib achieved superiority vs teriflunomide in FENhance 1 and 2, significantly reducing relapses and disease activity on MRI, demonstrating a substantial impact on relapsing biology
- A consistent trend favoring fenebrutinib was observed for measures of disability progression, suggesting an impact on progressive biology
- Rates of AEs were comparable, including hepatic transaminase level elevations and infection. An imbalance in fatal AEs was observed in the fenebrutinib arm
- Fenebrutinib is the first BTKi to show clear efficacy on relapsing disease biology vs an active comparator

**Fenebrutinib is the first and only oral treatment option to demonstrate efficacy across the MS disease continuum.**

**For additional details, please visit our poster being presented at the end of this session**



<https://go.roche.link/2pewrk>

# Acknowledgments

- We thank all the participants who volunteered for this trial and their families and site staff who provided support to the participants
- We are grateful to the study site investigators and staff who facilitated the trial's recruitment, enrollment and data collection; we thank the Independent Data Monitoring Committee and the Hepatic Assessment Committee
- We thank the collaborative team behind the study's conception, who guided the ethical and inclusive design of the FENhance trial framework

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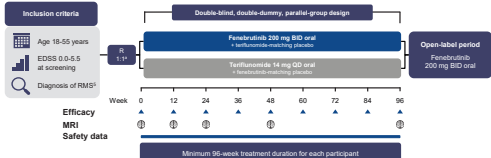
## BACKGROUND

- By targeting BTK signaling that is crucial to B-cell and myeloid cell activation,<sup>1,2</sup> BTKs have the potential to address both relapsing and progressive biologies across the multiple sclerosis (MS) disease continuum
- Fenebrutinib is a uniquely designed, central nervous system-penetrant, noncovalent, highly selective BTKi with an optimized pharmacokinetic/pharmacodynamic profile
- In the Phase II FENhance study (NCT04544449),<sup>3</sup> fenebrutinib demonstrated near-complete suppression of disease activity in RMS
- Fenebrutinib demonstrated efficacy in the Phase III FENtrepid primary progressive MS study (NCT04544449)<sup>4</sup> relative to ocrelizumab
- Noninferiority in reducing risk of 12-week composite confirmed disability progression (cCDP12; Expanded Disability Status Scale [EDSS] + 9-Hole Peg Test [9HPT] + Timed 25-Foot Walk Test [T25FWT])
- Superiority in post hoc analysis of modified composite endpoint (EDSS+ 9HPT)

## METHODS

- FENhance 1 and 2 are two largely identical, phase III, multicenter, randomized studies

### FENhance 1/2 Study Design



| Primary Endpoint                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Key Secondary Endpoints <sup>a</sup>                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Annualized Relapse Rate (ARR)</b><br>Protocol-defined relapse:<br>New or worsening neurological symptoms, persisting for 24 hours, attributable to MS rather than confounding clinical factor <sup>b</sup><br>Accompanied by objective worsening in at least one of:<br>• EDSS +1.0 point increase with baseline EDSS ≤5.5<br>• T25FWT ≥20% increase from baseline<br>• 9HPT ≥20% increase from baseline<br>• 1 point on any one functional system score <sup>c</sup> | <b>cCDP12</b><br>Based on any of:<br>• EDSS +1.0 point increase with baseline EDSS ≤5.5<br>• T25FWT ≥20% increase from baseline<br>• 9HPT ≥20% increase from baseline<br><b>T1 Gd<sup>+</sup> lesions</b><br><b>NETZLs</b><br>New or enlarging T2 lesions (NETZLs) |
| <b>Analysis:</b><br>Rate ratio from negative binomial model, adjusting for main stratification factors; 1-year-sided significance level of 0.02                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                    |

## REFERENCES

1. Hauser SL, et al. JAMA Neurol. 2019;16(12):1381-1391.
2. Hauser SL, et al. JAMA Neurol. 2019;16(12):1381-1391.
3. Hauser SL, et al. JAMA Neurol. 2019;16(12):1381-1391.
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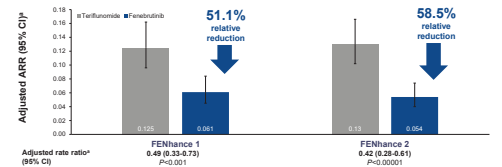
## RESULTS

### Baseline Characteristics Were Well Matched Between Treatment Arms and Across Studies

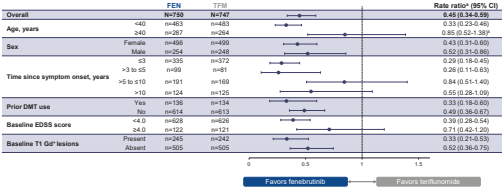
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|                                                                 | Fenebrutinib (n=174) | Teriflunomide (n=172) | Fenebrutinib (n=172) | Teriflunomide (n=172) |
| Age, mean (SD), years                                           | 36.1 (9.4)           | 35.8 (9.5)            | 36.4 (9.4)           | 34.8 (9.2)            |
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| Time since symptom onset, median (range), years                 | 3.8 (0.2-29.2)       | 3.4 (0.1-33.2)        | 3.9 (0.1-36.4)       | 2.6 (0.1-30.8)        |
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| Prior disease-modifying therapy (DMT) use, n (%)                | 56 (15.0)            | 61 (16.4)             | 80 (21.3)            | 73 (19.5)             |
| Participants with T1 Gd <sup>+</sup> lesions at baseline, n (%) | 128 (33.7)           | 126 (33.9)            | 119 (21.6)           | 116 (30.9)            |
| EDSS score, median (range)                                      | 2.9 (0.0-6.0)        | 2.9 (0.0-6.0)         | 2.9 (0.0-6.0)        | 2.9 (0.0-6.0)         |
| T25FWT, median (range), seconds                                 | 5.5 (3.0-180.0)      | 5.5 (3.0-180.0)       | 5.5 (3.0-180.0)      | 5.0 (3.0-180.0)       |
| 9HPT, median (range), seconds                                   | 22.1 (12.3-71.4)     | 21.0 (12.7-56.4)      | 21.3 (13.7-78.3)     | 21.1 (11.5-54.8)      |

<sup>a</sup>Based on any DMT use in the 12 weeks before randomization or any cCDP12 use in the 3 years before randomization.

### Primary Endpoint: Fenebrutinib Significantly Reduced ARR Relative to Teriflunomide, Translating to an Average of One Relapse Every 16-19 Years



### The Treatment Effect on ARR Favored Fenebrutinib Across Subgroups, With a Greater Effect in Younger People and Those With Baseline T1 Gd<sup>+</sup> Lesions



## OBJECTIVE

To evaluate the efficacy and safety of fenebrutinib relative to teriflunomide in relapsing multiple sclerosis (RMS) in the FENhance 1 and 2 trials (NCT04586010/NCT04586023).

## KEY TAKEAWAYS

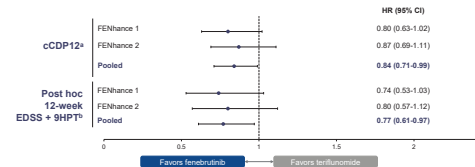
Fenebrutinib achieved superiority vs teriflunomide in FENhance 1 and 2, significantly reducing relapses and disease activity on MRI, demonstrating a substantial impact on relapsing biology.

A consistent trend favoring fenebrutinib was observed for measures of disease progression, suggesting an impact on progressive biology.

Rates of adverse events (AEs) were comparable, including hepatic transaminase level elevations and infection. An imbalance in fatal AEs was observed in the fenebrutinib arm.

Fenebrutinib is the first Bruton's tyrosine kinase inhibitor (BTKi) to show clear efficacy on relapsing disease biology vs an active comparator.

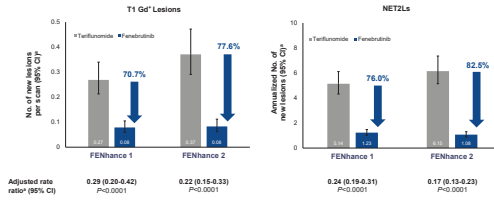
### Secondary Endpoint and Post Hoc Analysis: cCDP12 Endpoints Demonstrated a Consistent Trend Favoring Fenebrutinib



|            | Fenebrutinib (n=174) | Teriflunomide (n=172) | HR (95% CI)      | Contribution to cCDP12 |
|------------|----------------------|-----------------------|------------------|------------------------|
| FENhance 1 |                      |                       |                  |                        |
| cCDP12     | 125 (33.4)           | 143 (38.4)            | 0.80 (0.63-1.02) | 100%                   |
| CDP-EDSS   | 82 (19.9)            | 82 (16.7)             | 0.77 (0.53-1.12) | 33%                    |
| T25FWT     | 80 (22.7)            | 91 (24.5)             | 0.80 (0.66-1.00) | 57%                    |
| 9HPT       | 16 (4.3)             | 24 (6.5)              | 0.62 (0.33-1.16) | 10%                    |
| FENhance 2 |                      |                       |                  |                        |
| cCDP12     | 139 (35.9)           | 147 (39.2)            | 0.87 (0.69-1.11) | 100%                   |
| CDP-EDSS   | 46 (12.3)            | 56 (14.9)             | 0.81 (0.56-1.20) | 29%                    |
| T25FWT     | 102 (27.1)           | 104 (27.7)            | 0.94 (0.71-1.23) | 62%                    |
| 9HPT       | 22 (5.9)             | 30 (8.0)              | 0.70 (0.40-1.21) | 13%                    |

<sup>a</sup>Based on all 12-week cCDP12 events. <sup>b</sup>Based on all 12-week cCDP12 events. <sup>c</sup>Based on all 12-week cCDP12 events. <sup>d</sup>Based on all 12-week cCDP12 events. <sup>e</sup>Based on all 12-week cCDP12 events.

### Secondary Endpoints: Fenebrutinib Reduced The Number of New Brain MRI Lesions Compared With Teriflunomide



## ACKNOWLEDGMENTS

We thank all the participants who volunteered for this trial and their families and site staff who provided support to the participants.

We are grateful to the study site investigators and staff who facilitated the trial's recruitment, enrollment and data collection, as well as the sponsor, Genentech, for their support and the support of the sponsor.

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## DISCLOSURES

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