

Long-Term Safety and Efficacy of Oral Deucricitbant for Prophylaxis in Hereditary Angioedema: Data Snapshot Results of the CHAPTER-1 Open-Label Extension Study

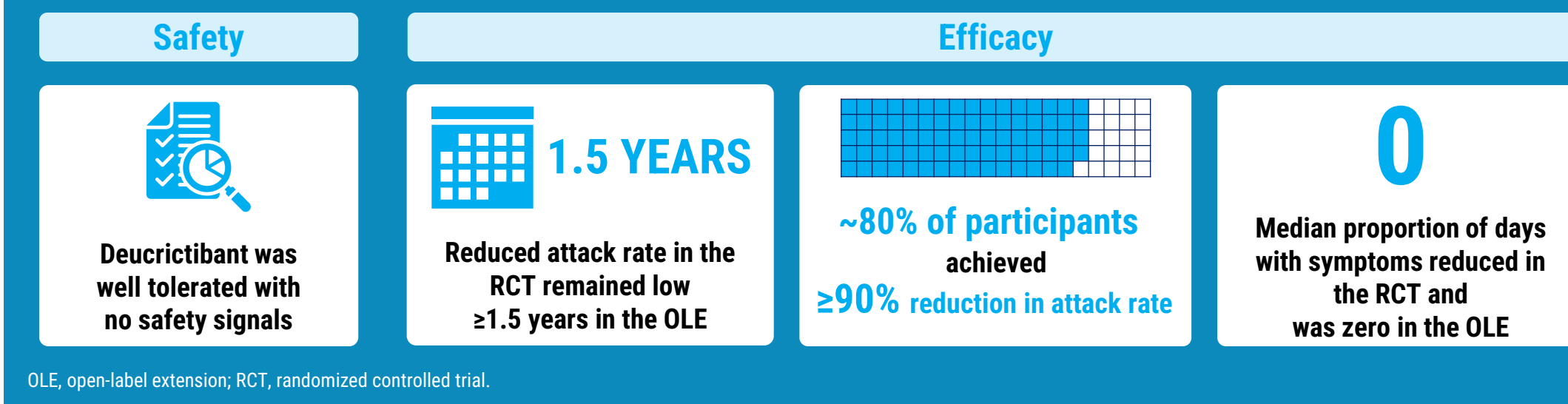


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Key takeaways

The ongoing Phase 2 CHAPTER-1 open-label extension (OLE) study provides further evidence on the long-term safety and efficacy of oral deucricitbant for prevention of hereditary angioedema (HAE) attacks.



Background

- Hereditary angioedema (HAE):** a bradykinin-mediated condition with painful swelling attacks affecting multiple locations in the body.¹
- Unmet need:** prophylactic treatments combining injectable-like efficacy, a well-tolerated profile, and ease of administration.²⁻⁵
- Oral deucricitbant:** a selective, bradykinin B2 receptor antagonist under development for both prophylactic and on-demand treatment of HAE attacks.⁵⁻¹⁵

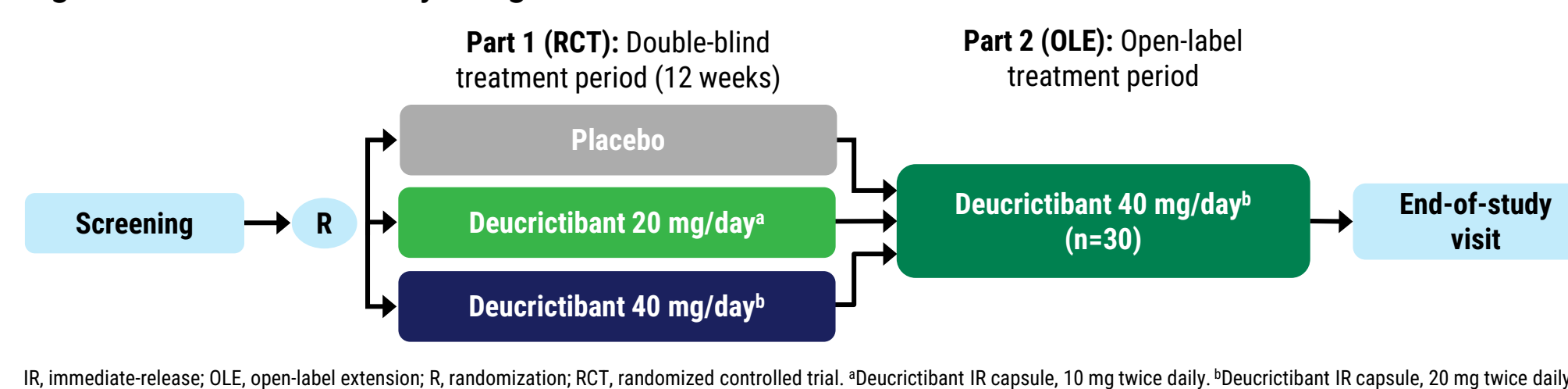
Objective

Evaluate the safety and efficacy of deucricitbant for long-term prophylaxis of HAE attacks in adults in the CHAPTER-1 open-label extension study.¹²

Methods

- CHAPTER-1 (NCT05047185)*:** a two-part, Phase 2 study.¹²
 - Part 1 randomized placebo-controlled trial (RCT) is complete.
 - Part 2 OLE is ongoing.
- Eligible participants:** adults diagnosed with HAE-1/2, not receiving other prophylactic treatments at screening, and with a pre-specified minimum number of attacks.

Figure 1. CHAPTER-1 study design



- All 30 participants who completed the RCT enrolled into the ongoing OLE.
- In the RCT, these 30 participants were randomized to deucricitbant 20 mg/day (N=11) or 40 mg/day (N=11), or placebo (N=9).
- Immediate-release (IR) capsule was dosed twice per day as a proof-of-concept for the once-daily deucricitbant extended-release (XR) tablet (intended formulation for prophylactic HAE treatment).

Results

Participants in the OLE

- At data cutoff (10 June 2024), 30 participants in the OLE had received deucricitbant 40 mg/day for a mean (SD) treatment duration of 12.83 (5.03) months; 5 participants had discontinued, 25 were ongoing.
- Maximum exposure to deucricitbant: 20.8 months in the OLE. 23.7 months in the entire study.

Safety analysis

- Deucricitbant was generally well tolerated.
- One treatment-related treatment-emergent adverse event (TEAE) of tooth discoloration reported.

Table 1. Adverse events in the OLE

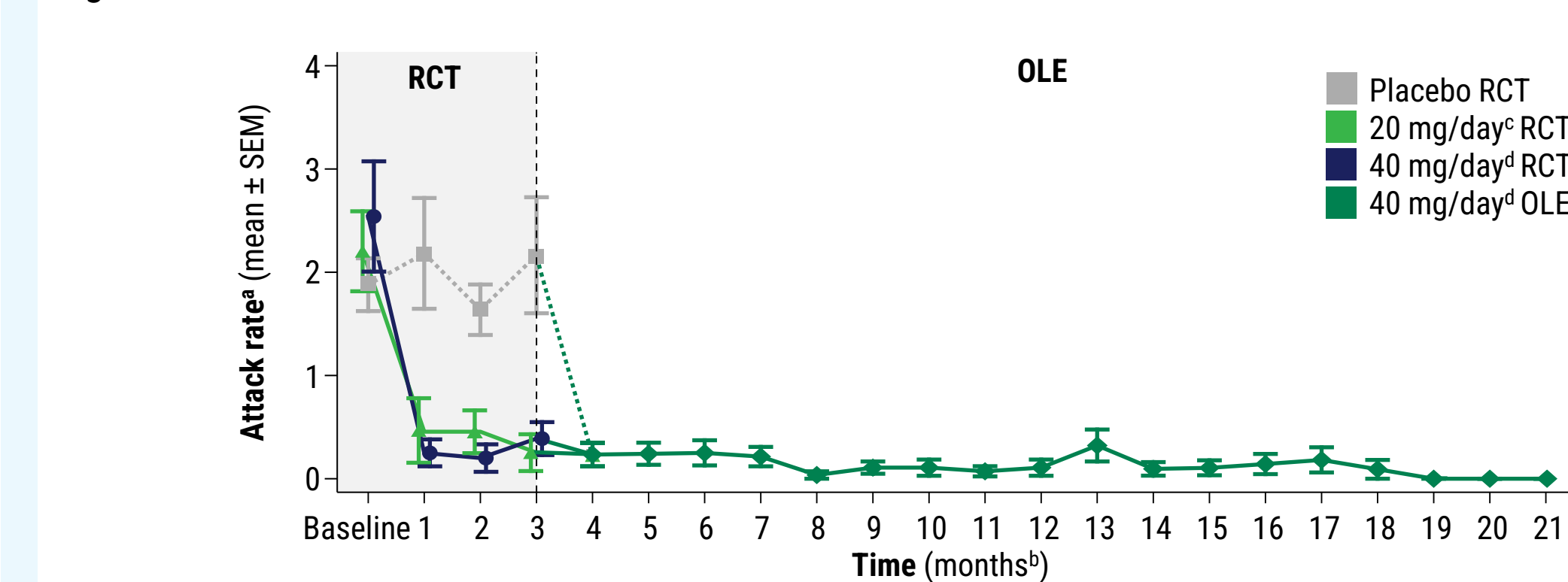
	Placebo to 40 mg/day ^a (N=9)		20 mg/day ^a to 40 mg/day ^a (N=11)		40 mg/day ^a (N=10)		Total (N=30)	
	n (%)	n	n (%)	n	n (%)	n	n (%)	n
TEAEs	5 (55.6)	25	7 (63.6)	31	6 (60.0)	16	18 (60.0)	72
Treatment-related TEAEs	1 (11.1)	1	0	0	0	0	1 (3.3)	1
Tooth discoloration	1 (11.1)	1	0	0	0	0	1 (3.3)	1
Serious TEAEs	0	0	1 (9.1)	1	1 (10.0)	1	2 (6.7)	2
Tendon injury	0	0	0	0	1 (10.0)	1	1 (3.3)	1
Hip arthroplasty (arthritis)	0	0	1 (9.1)	1	0	0	1 (3.3)	1
Treatment-related serious TEAEs	0	0	0	0	0	0	0	0
TEAEs leading to study drug discontinuation, study withdrawal, or death	0	0	0	0	0	0	0	0

IR, immediate release; OLE, open-label extension; TEAE, treatment-emergent adverse event. TEAE defined as adverse event occurring during time window from first study drug administration. N = number of participants who received ≥ 1 dose of study treatment in the OLE by the cutoff date of 10 June 2024. ^aDeucricitbant IR capsule, 20 mg twice daily. ^bDeucricitbant IR capsule, 10 mg twice daily.

Efficacy analysis

- RCT: Deucricitbant reduced the attack rate, with effects observed within the first month.
- OLE: Low attack rate maintained through ≥ 1.5 years.

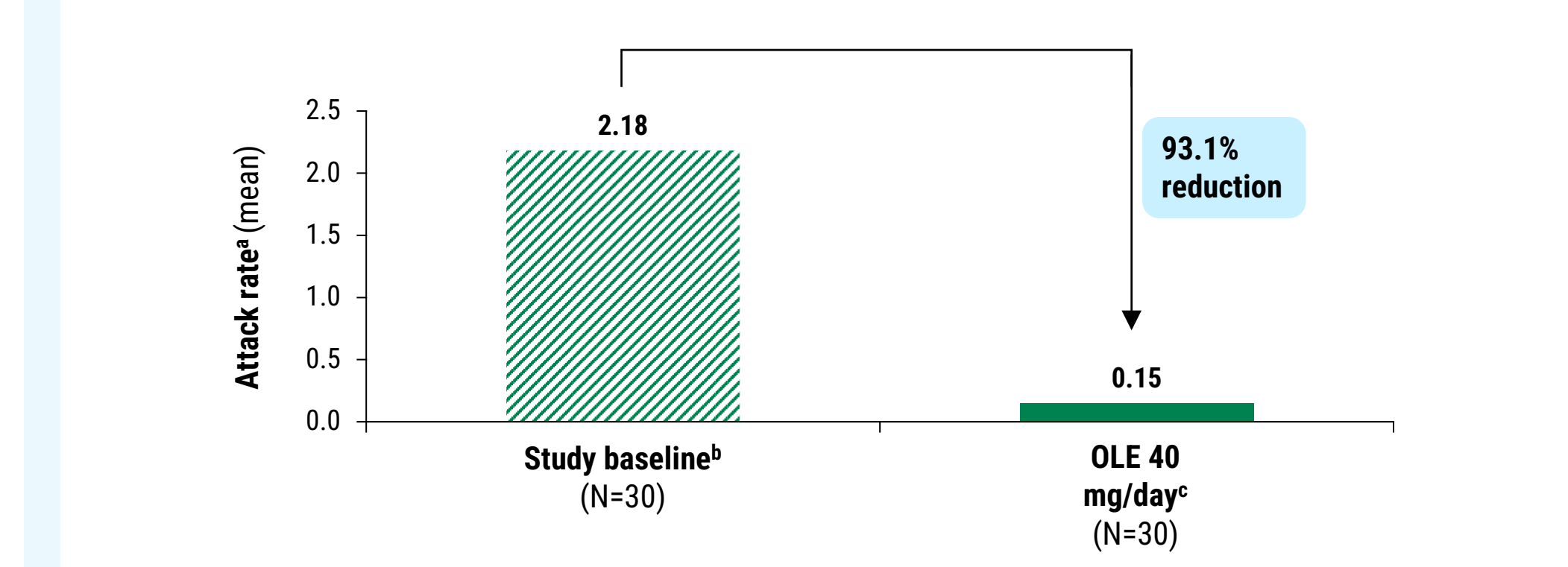
Figure 2. Attack rate reduced in the RCT remained low in the OLE



IR, immediate release; OLE, open-label extension; RCT, randomized controlled trial; SEM, standard error of the mean. n = number of patients analyzed at each timepoint. ^aBased on time normalized number of attacks per 4 weeks. ^b1 month = 4 weeks. ^cDeucricitbant IR capsule, 10 mg twice daily. ^dDeucricitbant IR capsule, 20 mg twice daily.

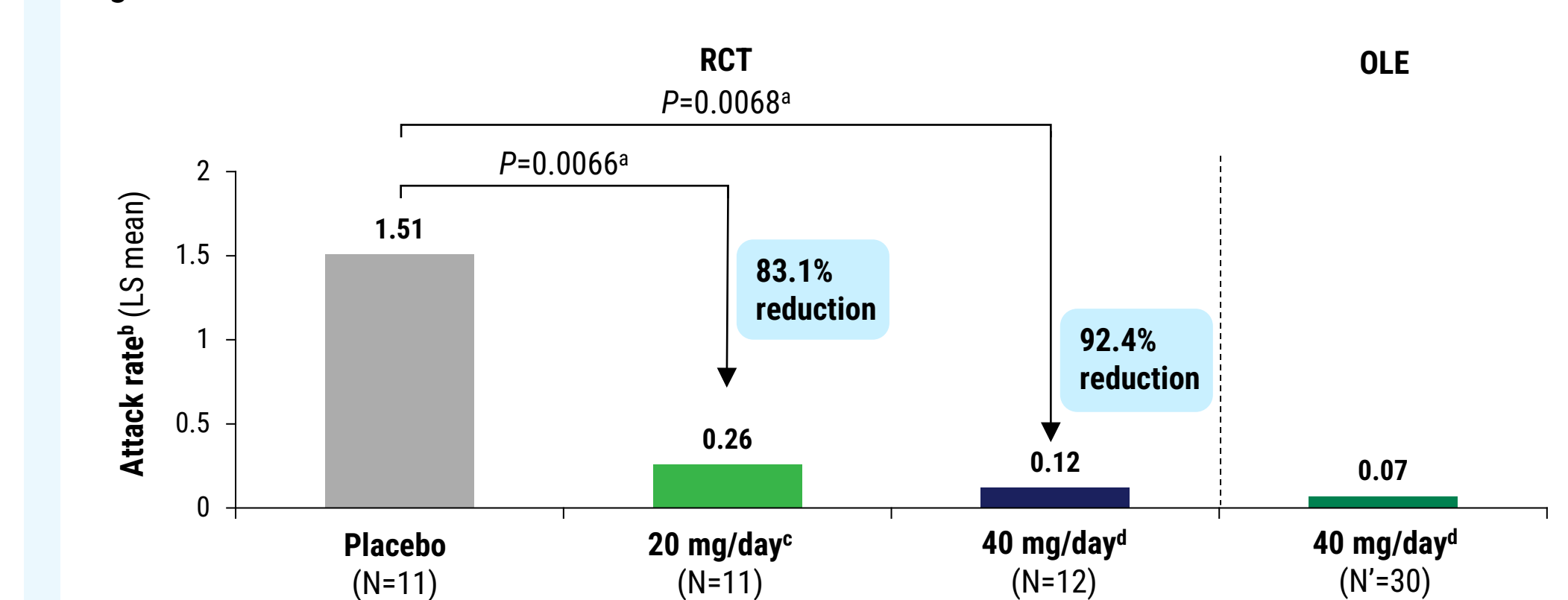
Results

Figure 3. Attack rate reduced in the OLE compared to study baseline



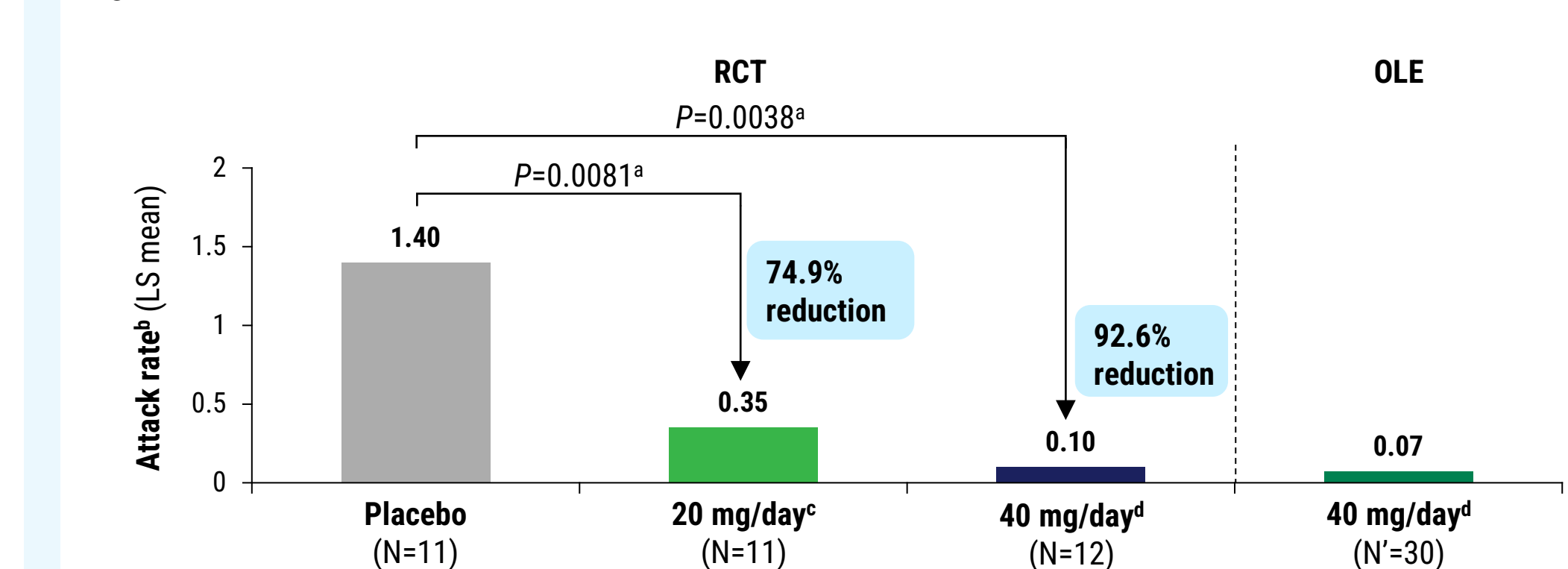
IR, immediate release; LS, least squares; OLE, open-label extension. N = number of participants in the OLE. ^aBased on time normalized number of attacks per 4 weeks. ^bBaseline attack rate is raw (unadjusted) mean. OLE attack rate is LS mean. LS mean estimate of attack rate is based on Poisson regression models adjusted for baseline attack rate and time on treatment. No multiplicity adjustment was applied. ^cDeucricitbant IR capsule, 20 mg twice daily.

Figure 4. "Moderate and severe" attack rate reduced in the RCT and remained low in the OLE



IR, immediate release; LS, least squares; OLE, open-label extension; RCT, randomized controlled trial. N = number of participants randomized in each treatment group in the RCT. N = number of participants in the OLE. LS mean estimates of attack rate are based on Poisson regression models adjusted for baseline attack rate and time on treatment. No multiplicity adjustment was applied. ^aThe P-values in this figure are nominal. ^bBased on time normalized number of attacks per 4 weeks. ^cDeucricitbant IR capsule, 10 mg twice daily. ^dDeucricitbant IR capsule, 20 mg twice daily.

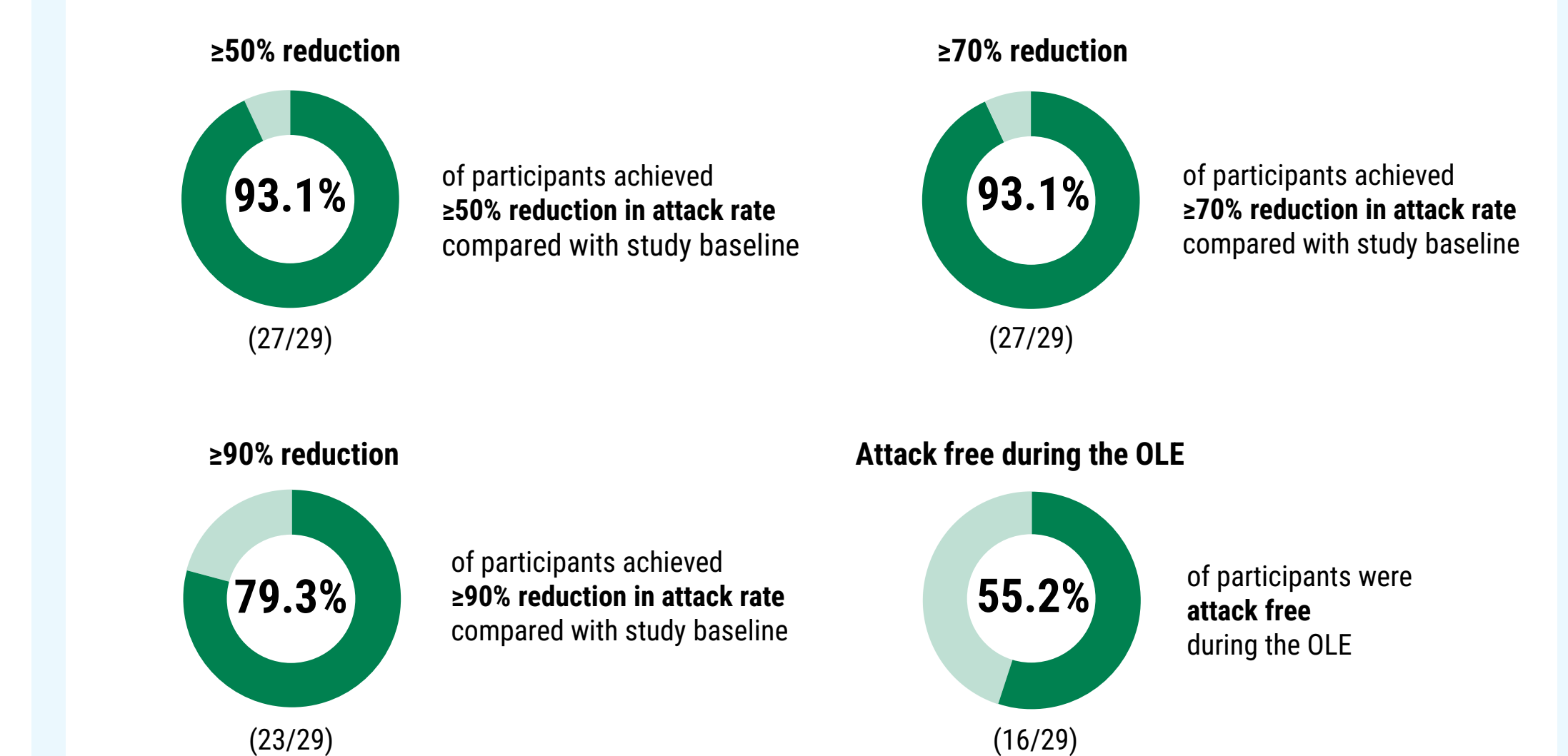
Figure 5. On-demand-treated attack rate reduced in the RCT and remained low in the OLE



IR, immediate release; LS, least squares; OLE, open-label extension; RCT, randomized controlled trial. N = number of participants randomized in each treatment group in the RCT. N = number of participants in the OLE. LS mean estimates of attack rate are based on Poisson regression models adjusted for baseline attack rate and time on treatment. No multiplicity adjustment was applied. ^aThe P-values in this figure are nominal. ^bBased on time normalized number of attacks per 4 weeks. ^cDeucricitbant IR capsule, 10 mg twice daily. ^dDeucricitbant IR capsule, 20 mg twice daily.

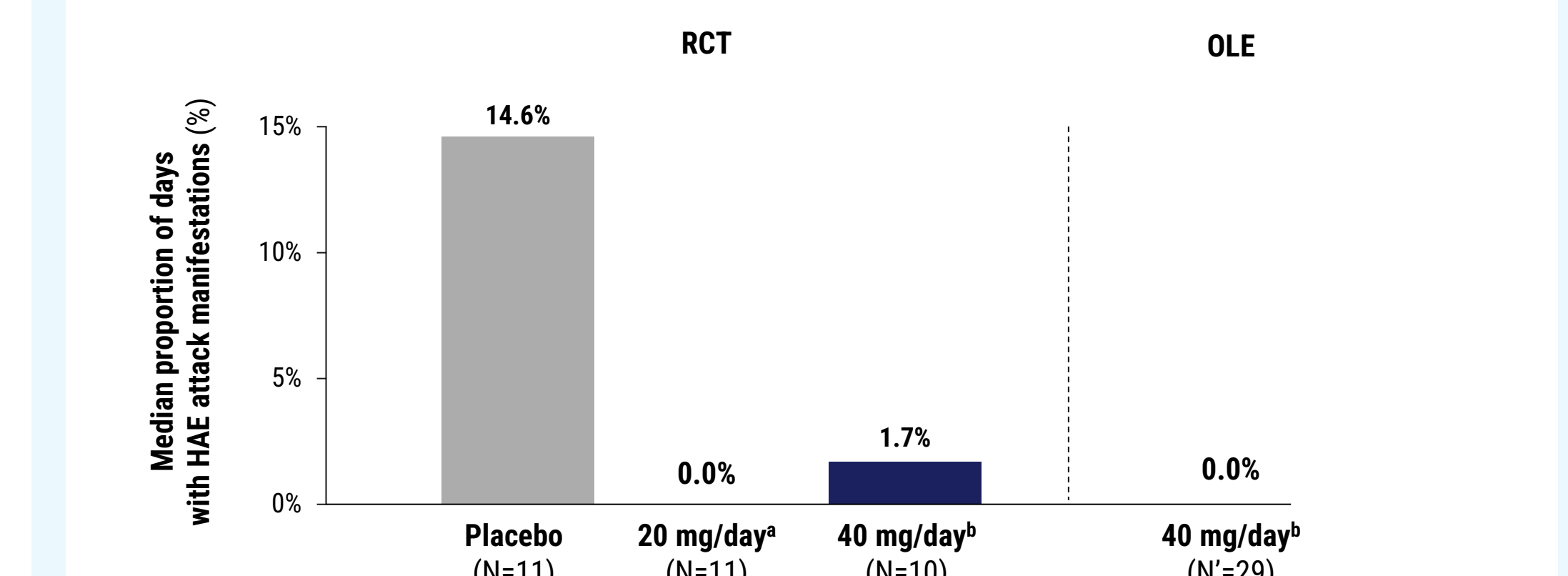
Results

Figure 6. Attack rate reduced relative to study baseline and over half of participants attack-free during the OLE



IR, immediate-release; OLE, open-label extension, RCT, randomized controlled trial. Participants with ≥ 4 weeks of treatment in the OLE receiving 40 mg/day (deucricitbant IR capsule, 20 mg twice daily).

Figure 7. Median proportion of days with HAE attack manifestations reduced in the RCT and remained low in the OLE



HAE, hereditary angioedema; IR, immediate release; OLE, open-label extension; RCT, randomized controlled trial. N = Number of participants with ≥ 4 weeks of treatment in the RCT. N = Number of participants with ≥ 4 weeks of treatment in the OLE. ^aDeucricitbant IR capsule, 10 mg twice daily. ^bDeucricitbant IR capsule, 20 mg twice daily.

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This presentation includes data for an investigational product not yet approved by regulatory authorities.

Author disclosures

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CHAPTER-1 is a Pharvaris-sponsored clinical trial. ClinicalTrials.gov identifier: NCT05047185

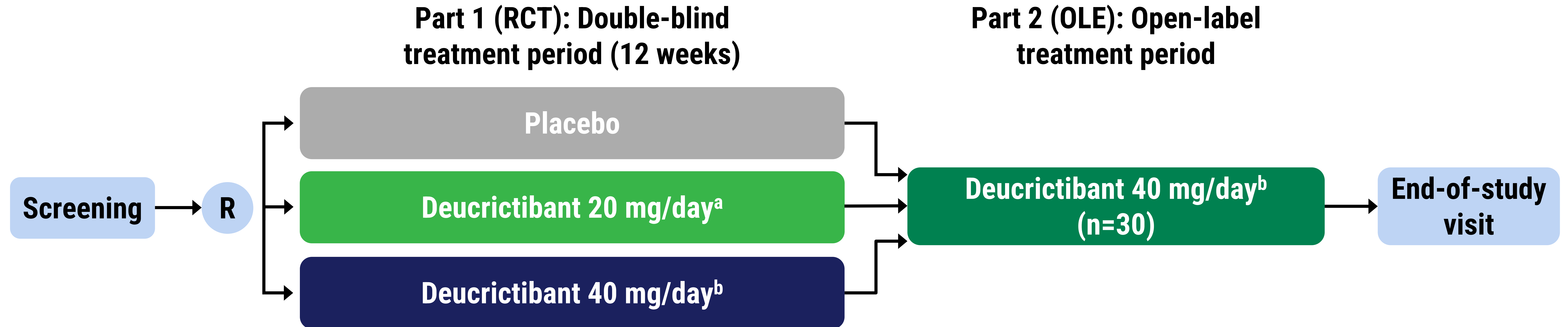
Acknowledgments: Medical writing services were provided by Natalie Hastrup, PhD, of Two Labs Pharma Services.

Background

- **Hereditary angioedema (HAE):** Bradykinin-mediated condition with painful swelling attacks affecting multiple locations in the body.¹
- **Unmet need:** Prophylactic treatments combining injectable-like efficacy, a well-tolerated profile, and ease of administration.²⁻⁵
- **Oral deucrictibant:** Selective bradykinin B2 receptor antagonist under development for both prophylactic and on-demand treatment of HAE attacks.⁵⁻¹⁵
- **CHAPTER-1 (NCT05047185):** Two-part Phase 2 study evaluating efficacy and safety of deucrictibant for long-term prophylaxis of HAE attacks.¹²

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CHAPTER-1 study design



- **Part 1 randomized placebo-controlled trial (RCT):** Complete.
- **Eligible participants:** Adults diagnosed with HAE-1/2, not receiving other prophylactic treatments at screening, and with a pre-specified minimum number of attacks.
 - All 30 participants who completed the RCT enrolled into the ongoing OLE.
 - In the RCT, these 30 participants were randomized to deucricitibant 20 mg/day^a (N=11) or 40 mg/day^b (N=10), or placebo (N=9).

Part 2 open-label extension (OLE): Ongoing.

OLE objective: Evaluate safety and efficacy of deucricitibant for long-term prophylaxis of HAE attacks in adults.

HAE, hereditary angioedema; IR, immediate-release; OLE, open-label extension; R, randomization; RCT, randomized controlled trial. ^aDeucricitibant IR capsule, 10 mg twice daily. ^bDeucricitibant IR capsule, 20 mg twice daily. IR capsule was dosed twice per day as a proof-of-concept for the once-daily deucricitibant extended-release (XR) tablet (intended formulation for prophylactic HAE treatment).

Participants and safety outcomes in the OLE

- At data cutoff (10 June 2024), 30 participants in the OLE had received deucricitibant 40 mg/day for a mean (SD) treatment duration of 12.83 (5.03) months; 5 participants had discontinued, 25 were ongoing.
- Maximum exposure to deucricitibant: 20.8 months in the OLE; 23.7 months in the entire study.
- Deucricitibant was generally well tolerated. One treatment-related treatment-emergent adverse event (TEAE) of tooth discoloration was reported.

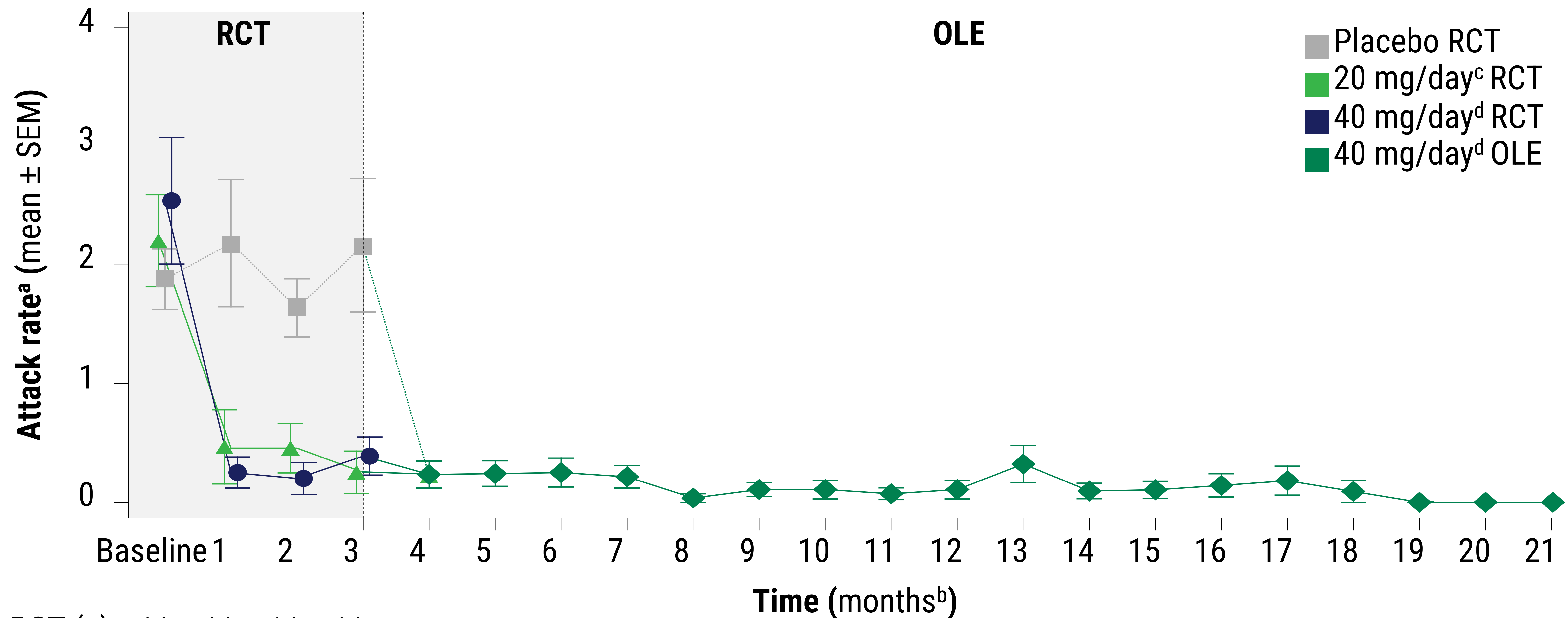
	Placebo to 40 mg/day ^a (N=9)		20 mg/day ^b to 40 mg/day ^a (N=11)		40 mg/day to 40 mg/day ^a (N=10)		Total (N=30)	
	Participants, n (%)	Events, n	Participants, n (%)	Events, n	Participants, n (%)	Events, n	Participants, n (%)	Events, n
TEAEs	5 (55.6)	25	7 (63.6)	31	6 (60.0)	16	18 (60.0)	72
Treatment-related TEAEs	1 (11.1)	1	0	0	0	0	1 (3.3)	1
Tooth discoloration	1 (11.1)	1	0	0	0	0	1 (3.3)	1
Serious TEAEs	0	0	1 (9.1)	1	1 (10.0)	1	2 (6.7)	2
Tendon injury	0	0	0	0	1 (10.0)	1	1 (3.3)	1
Hip arthroplasty (arthritis)	0	0	1 (9.1)	1	0	0	1 (3.3)	1
Treatment-related serious TEAEs	0	0	0	0	0	0	0	0
TEAEs leading to study drug discontinuation, study withdrawal, or death	0	0	0	0	0	0	0	0

IR, immediate release; OLE, open-label extension; TEAE, treatment-emergent adverse event. TEAE defined as adverse event occurring during time window from first study drug administration.

N = number of participants who received ≥1 dose of study treatment in the OLE by the cutoff date of 10 June 2024. ^aDeucricitibant IR capsule, 20 mg twice daily. ^bDeucricitibant IR capsule, 10 mg twice daily.

Attack rate reduced in the RCT and remained low in the OLE

- **RCT:** Deucricitbant reduced the attack rate, with effects observed within the first month.
- **OLE:** Low attack rate maintained through ≥ 1.5 years.

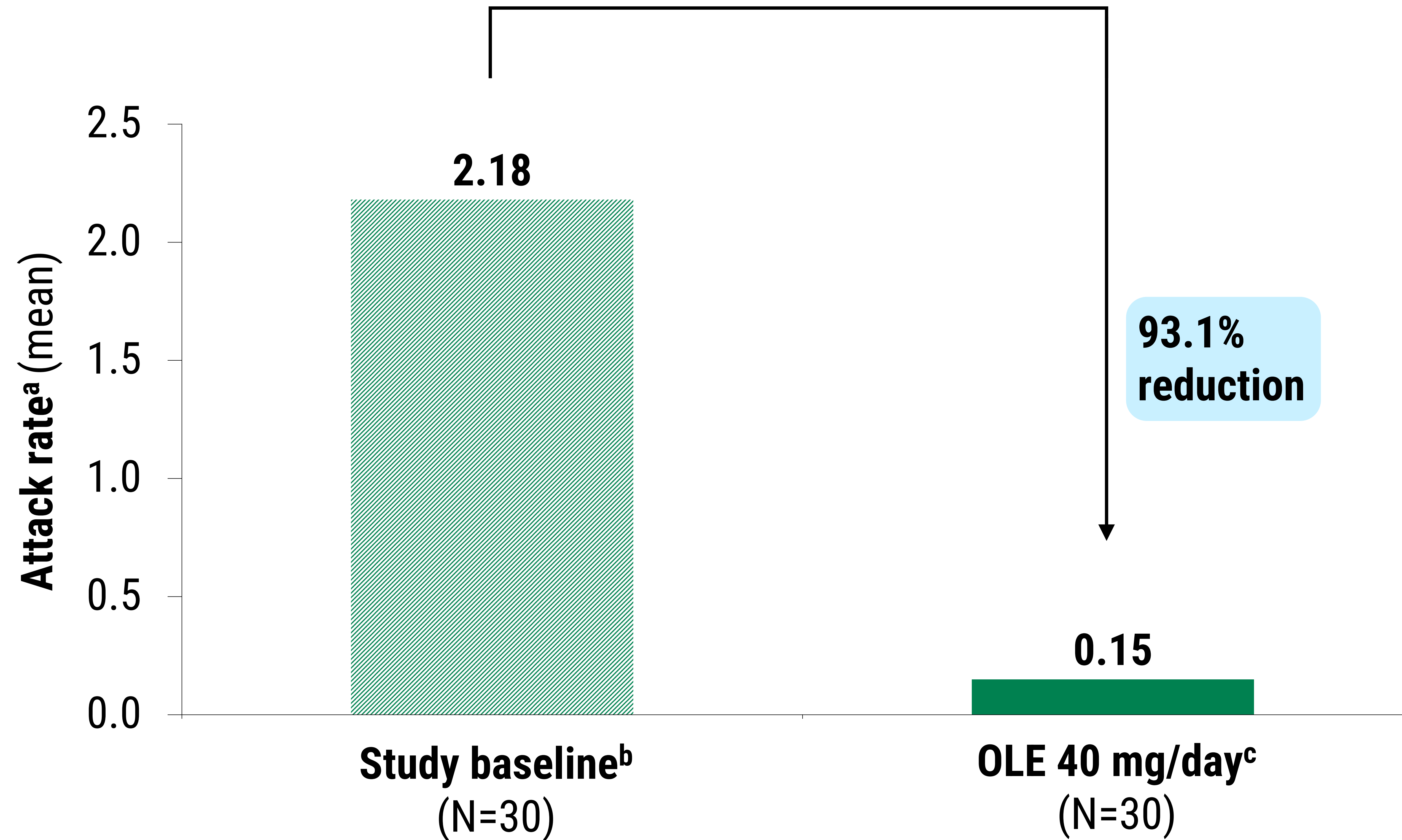


Placebo RCT (n)	11	11	11	11
20 mg/day^c RCT (n)	11	11	11	11
40 mg/day^d RCT (n)	12	12	10	10
40 mg/day^d OLE (n)				

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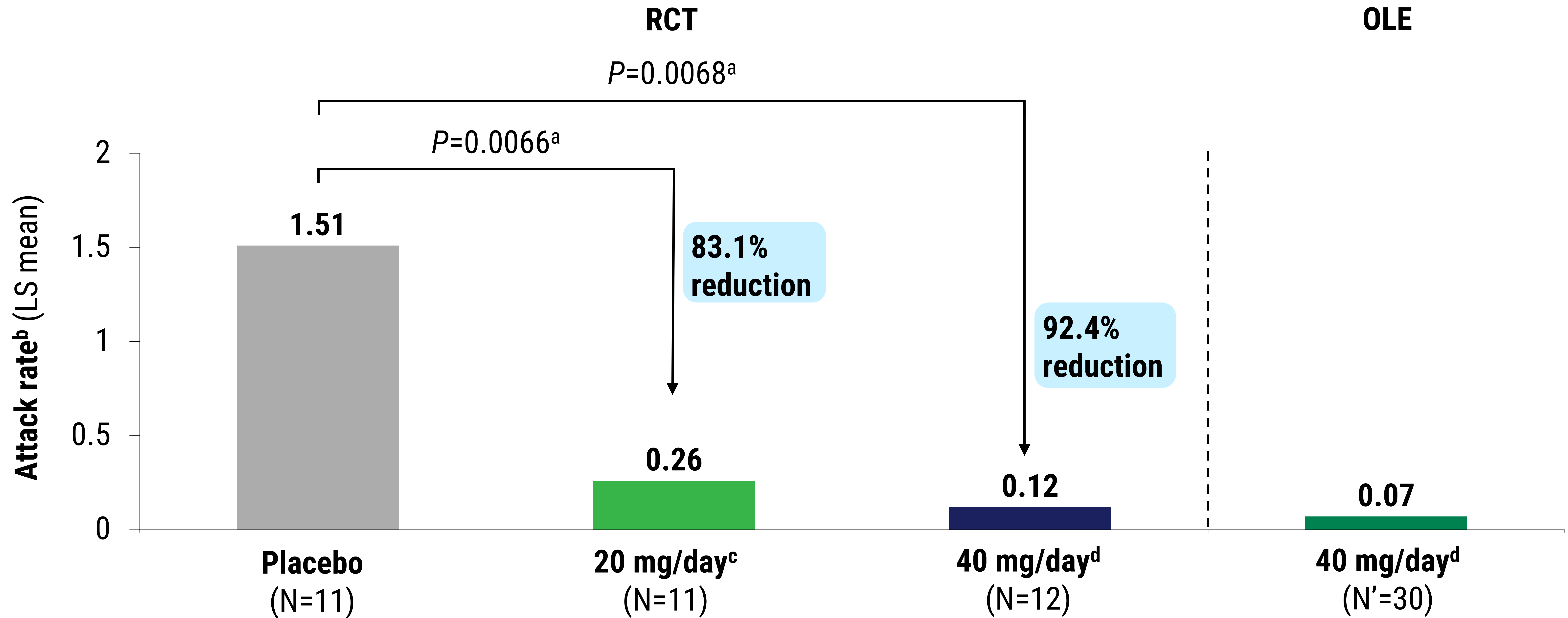
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Attack rate reduced in the OLE compared to study baseline



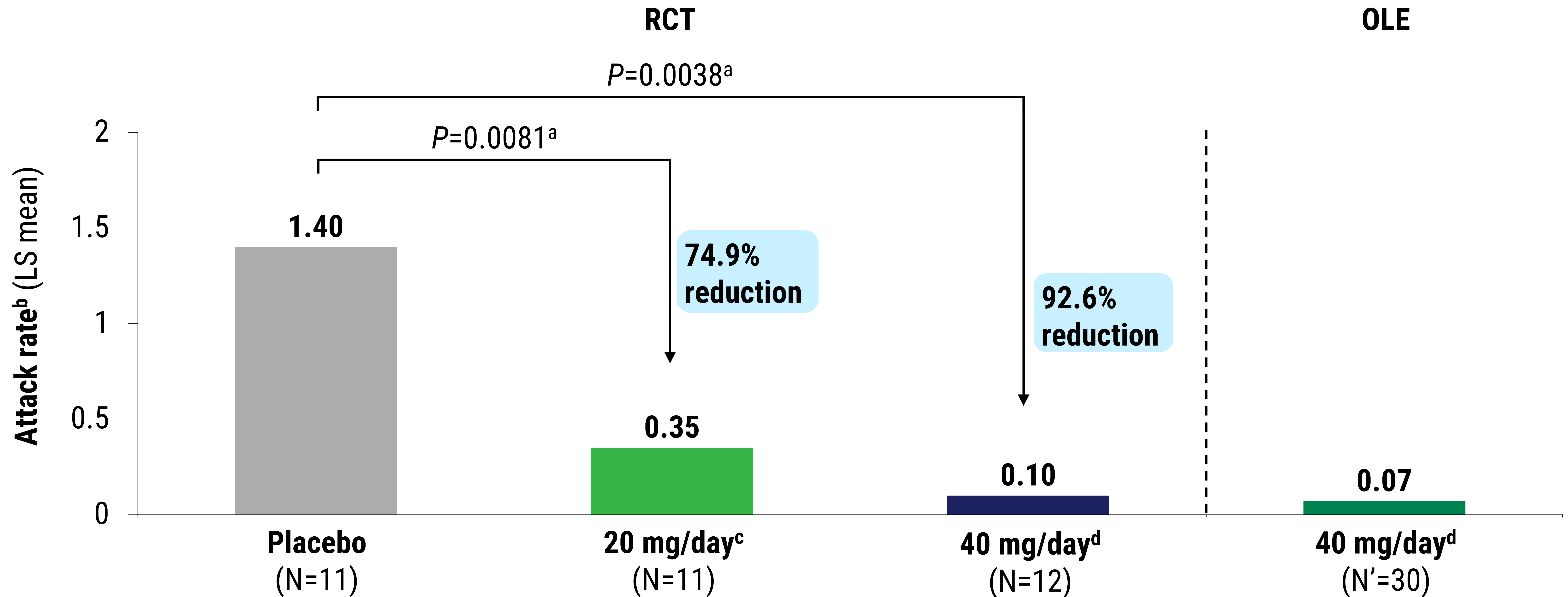
IR, immediate release; LS, least squares; OLE, open-label extension. N = number of participants in the OLE. ^aBased on time normalized number of attacks per 4 weeks. ^bBaseline attack rate is raw (unadjusted) mean. OLE attack rate is LS mean. LS mean estimate of attack rate is based on Poisson regression models adjusted for baseline attack rate and time on treatment. No multiplicity adjustment was applied. ^cDeucritibant IR capsule, 20 mg twice daily.

“Moderate and severe” attack rate reduced in the RCT and remained low in the OLE



IR, immediate release; LS, least squares; OLE, open-label extension; RCT, randomized controlled trial. N = number of participants randomized in each treatment group in the RCT. N' = number of participants in the OLE. LS mean estimates of attack rate are based on Poisson regression models adjusted for baseline attack rate and time on treatment. No multiplicity adjustment was applied. ^aThe P values in this figure are nominal. ^bBased on time-normalized number of attacks per 4 weeks. ^cDeucricitibant IR capsule, 10 mg twice daily. ^dDeucricitibant IR capsule, 20 mg twice daily.

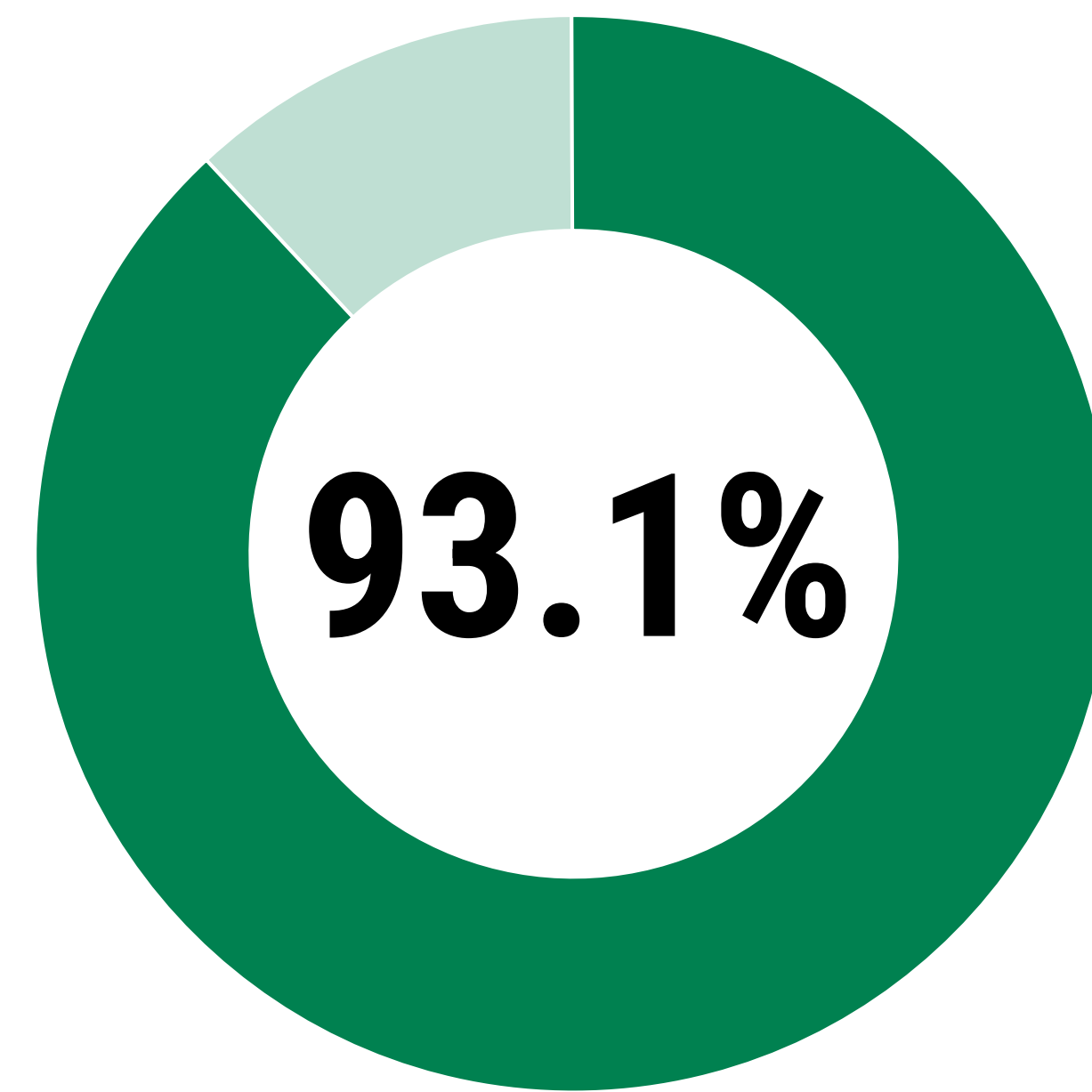
On-demand-treated attack rate reduced in the RCT and remained low in the OLE



IR, immediate release; LS, least squares; OLE, open-label extension; RCT, randomized controlled trial. N = number of participants randomized in each treatment group in the RCT. N' = number of participants in the OLE. LS mean estimates of attack rate are based on Poisson regression models adjusted for baseline attack rate and time on treatment. No multiplicity adjustment was applied. ^aThe P-values in this figure are nominal. ^bBased on time normalized number of attacks per 4 weeks. ^cDeucricitabant IR capsule, 10 mg twice daily. ^dDeucricitabant IR capsule, 20 mg twice daily.

Approximately 80% of participants achieved $\geq 90\%$ reduction in attack rate and over half of participants were attack free during the OLE

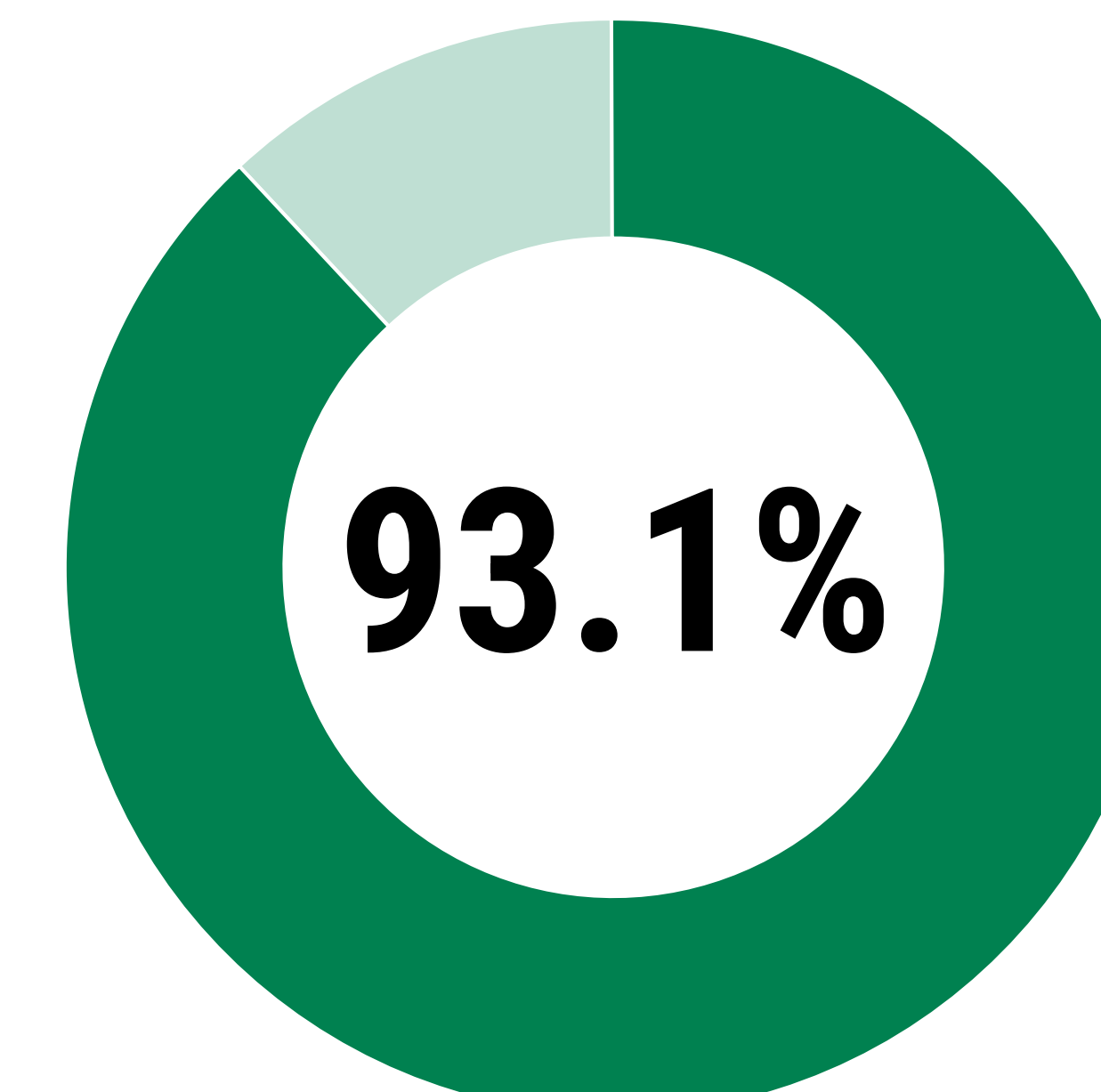
$\geq 50\%$ reduction



(27/29)

of participants achieved **$\geq 50\%$ reduction in attack rate** compared to study baseline

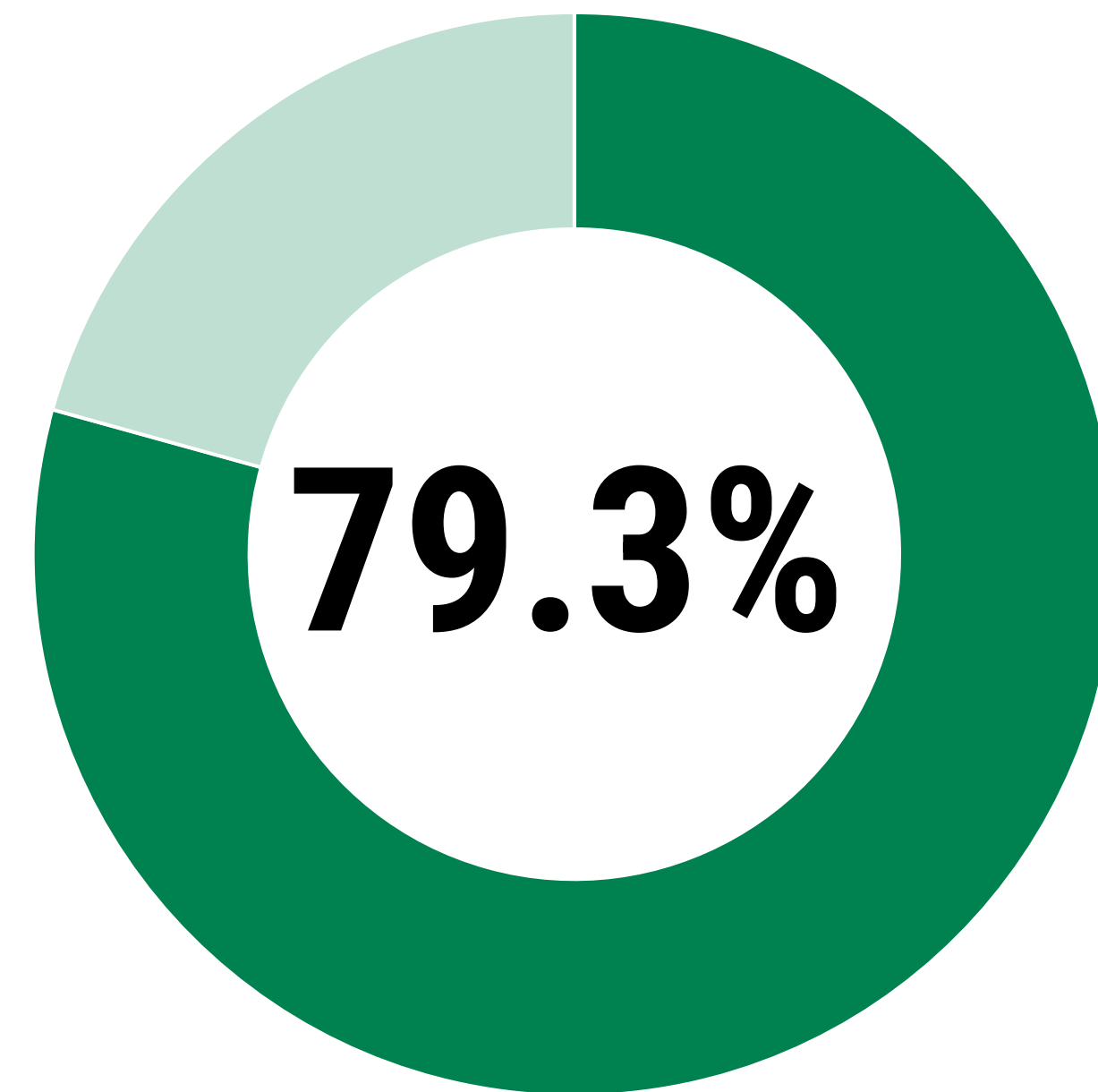
$\geq 70\%$ reduction



(27/29)

of participants achieved **$\geq 70\%$ reduction in attack rate** compared to study baseline

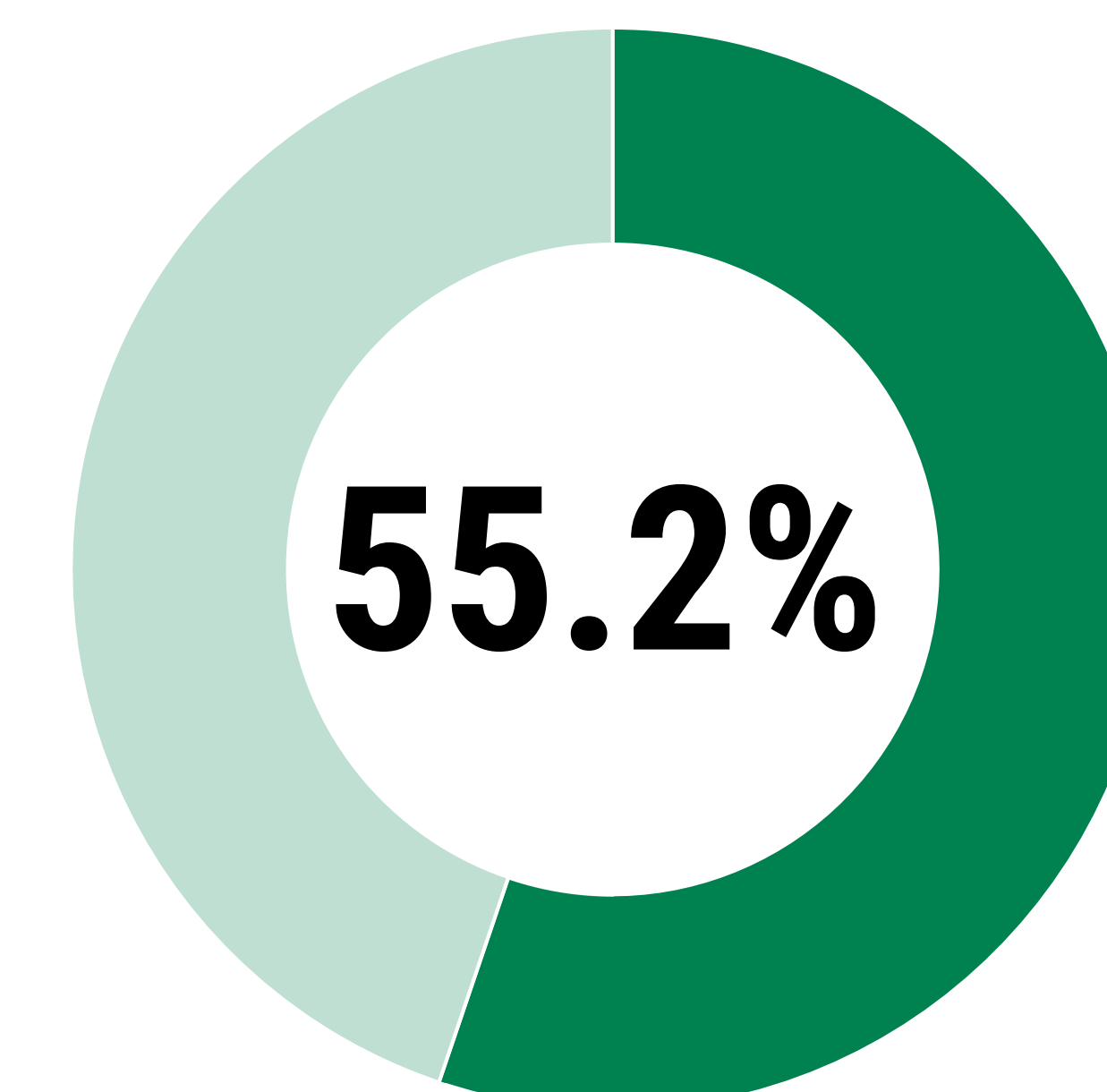
$\geq 90\%$ reduction



(23/29)

of participants achieved **$\geq 90\%$ reduction in attack rate** compared to study baseline

Attack free

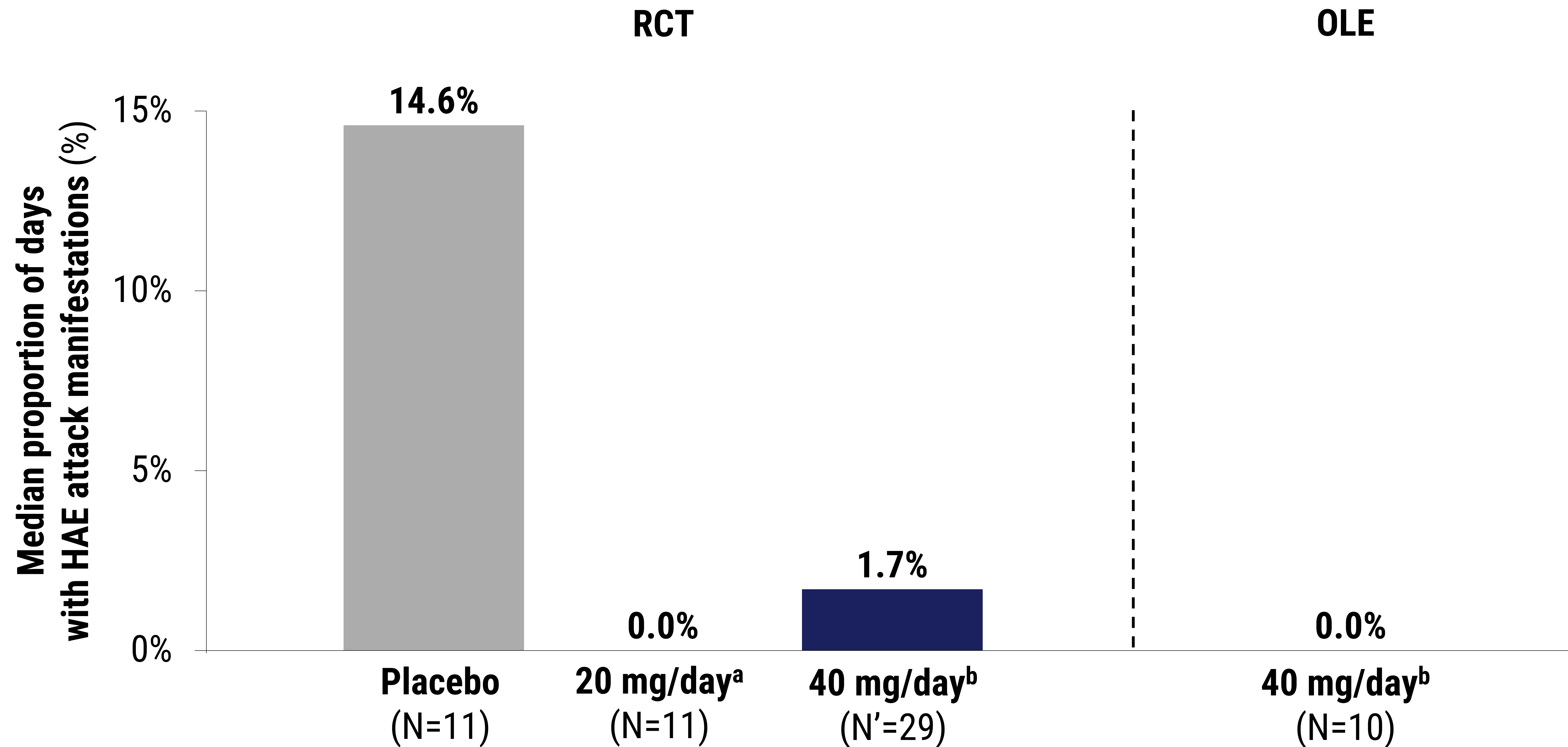


(16/29)

of participants were **attack free** during the OLE

IR, immediate-release; OLE, open-label extension, RCT, randomized controlled trial. Participants with ≥ 4 weeks of treatment in the OLE receiving 40 mg/day (deucricitbant IR capsule, 20 mg twice daily).

Median proportion of days with HAE attack manifestations reduced in the RCT and remained low in the OLE



HAE, hereditary angioedema; IR, immediate release; OLE, open-label extension; RCT, randomized controlled trial. N = Number of participants with ≥ 4 weeks of treatment in the RCT. N' = Number of participants with ≥ 4 weeks of treatment in the OLE. ^aDeucricitabant IR capsule, 10 mg twice daily. ^bDeucricitabant IR capsule, 20 mg twice daily.

Key takeaways

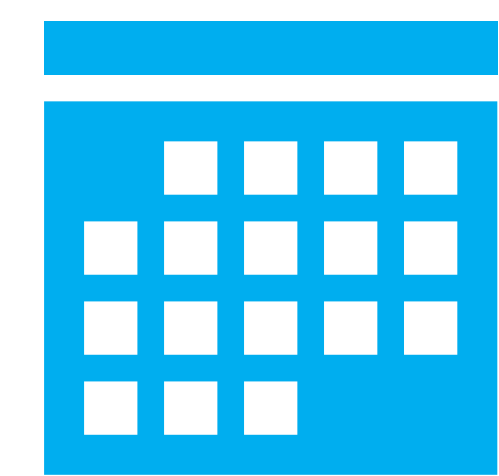
The ongoing Phase 2 CHAPTER-1 OLE study provides further evidence on the long-term safety and efficacy of oral deucrictibant for prevention of HAE attacks.

Safety



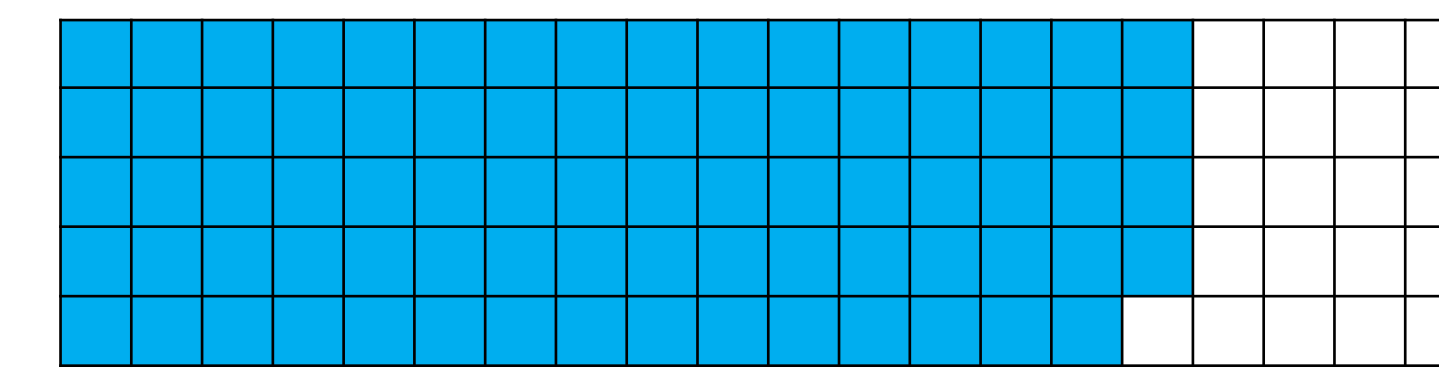
Deucrictibant was well tolerated with no safety signals

Efficacy



1.5 YEARS

Reduced attack rate in the RCT remained low ≥ 1.5 years in the OLE



$\sim 80\%$ of participants achieved
 $\geq 90\%$ reduction in attack rate

0

Median proportion of days with symptoms reduced in the RCT and was zero in the OLE