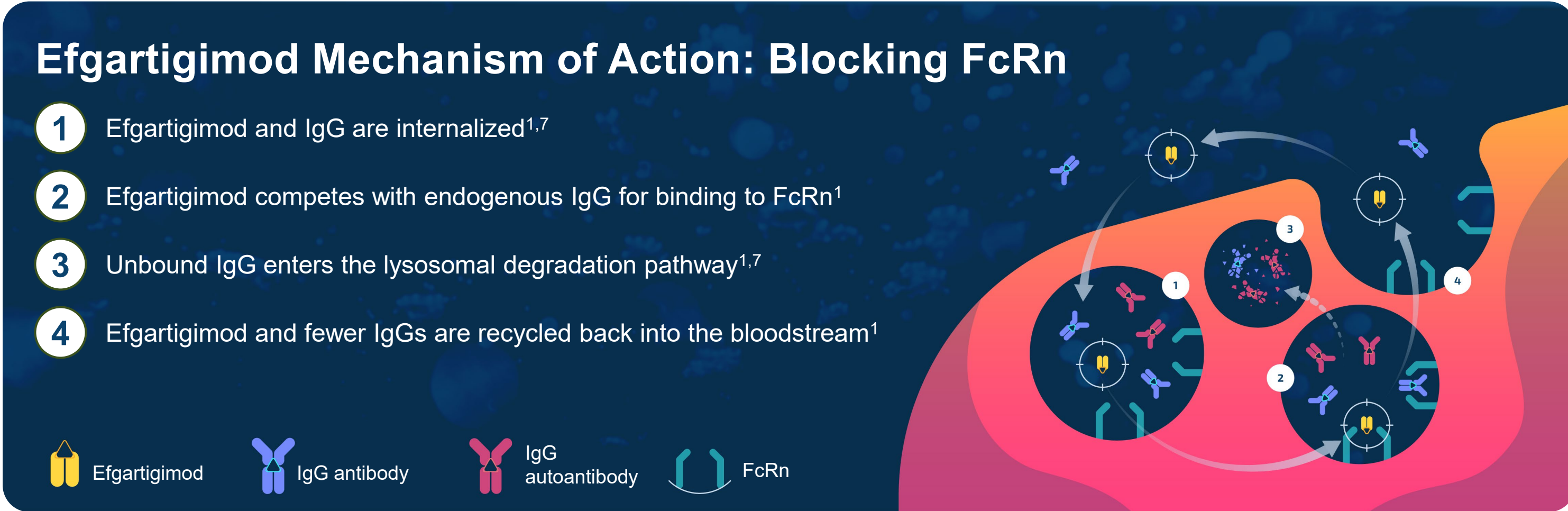


INTRODUCTION

- Efgartigimod is an IgG1 antibody Fc fragment that has been engineered for increased affinity to FcRn compared to endogenous IgG, and is uniquely composed of the only part of the IgG antibody that normally binds FcRn¹
- Efgartigimod selectively reduces IgG by blocking FcRn-mediated IgG recycling without impacting antibody production or other parts of the immune system, and does not decrease albumin¹⁻³
- Efgartigimod PH20 SC is a coformulation of efgartigimod and recombinant human hyaluronidase PH20, which allows for rapid SC administration of larger volumes^{4,5}
- The 1000-mg fixed-dose formulation of efgartigimod PH20 SC utilized in ADAPT-SC and ADAPT-SC+, which is provided in a vial and administered via a separate syringe (V+S), has been shown to be well tolerated and efficacious⁶
- To improve patient convenience, a prefilled syringe (PFS) has been developed to ease the injection procedure



RESULTS

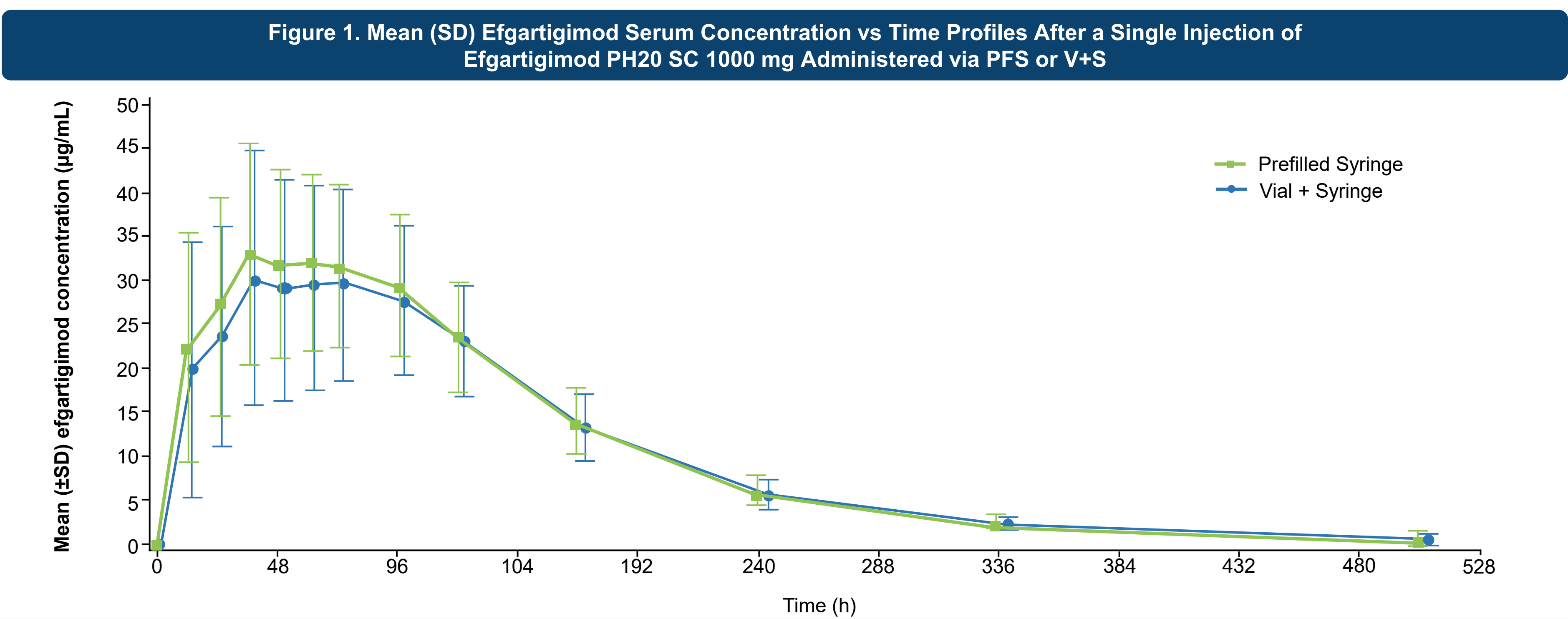
Bioequivalence Study in Healthy Participants

- Design:** Healthy participants were randomized to receive a single injection of efgartigimod PH20 SC via PFS or V+S, and switched to receive the other treatment ≥2 weeks after the initial 3-week treatment period (≥5 weeks total between injections)
- Results:** Following a single administration of efgartigimod PH20 SC via PFS or V+S, efgartigimod serum concentrations indicated that the 90% CI around the GMR of C_{max} and AUC_{0-inf} was within the predefined bioequivalence criteria of 80.00% to 125.00% (**Table 1**; **Figure 1**)
- Safety:** The frequency of TEAEs was similar between participants in both groups. The majority of TEAEs were mild to moderate in severity; most frequently reported TEAEs^a were injection site discoloration, injection site reaction, and injection site hemorrhage. No SAEs or deaths were seen in the study

See additional participant information and safety data by following the QR code above

^aOccurring in ≥10% of participants in either treatment group.

Table 1. Summary of Statistical Comparisons of Efgartigimod PK Parameters After a Single Injection of Efgartigimod PH20 SC 1000 mg Administered via PFS or V+S						
Parameter (unit)	PFS (test)		V+S (reference)		PFS vs V+S	
	n	Geometric LSM	n	Geometric LSM	GMR (%)	90% CI (%)
C _{max} (µg/mL)	70	34.70	72	31.63	109.70	103.40-116.39
AUC ₀₋₄ (µg x h/mL)	70	5305.9	72	4911.2	108.04	103.72-112.54
AUC _{0-inf} (µg x h/mL)	70	5389.0	72	4995.1	107.89	103.65-112.29



METHODS

Bioequivalence

✓

Phase 1, open-label, randomized, single-dose, 2-period crossover, bioequivalence study

👤

Healthy participants: N=72
Randomization 1:1

💉

Efgartigimod PH20 SC 1000 mg
Administered via PFS or V+S^a

🕒

Study duration: 13 weeks

Injection Speed

✓

Phase 1, single center, randomized, open-label, crossover study

👤

Healthy participants: N=48
Randomized to 1 of 12 randomized sequences^c

💉

Efgartigimod PH20 SC 1000 mg
Administered over 20, 30, 45, or 60 seconds^{d,e}

🕒

Study duration: 92 days

Human Factors Validation

✓

Simulated-use, human factors validation study to evaluate the efgartigimod PH20 SC PFS and associated instructions for use (IFU)^b

👤

Participants with gMG: n=15
Lay caregivers: n=15

📋

Tasks included storage, unaided administration, and understanding of the PFS and IFU

✓

Simulated-use, human factors validation study to evaluate the efgartigimod PH20 SC PFS and associated IFU^b

👤

Participants with CIDP: N=15

📋

Tasks included storage, unaided administration, and understanding of the PFS and IFU

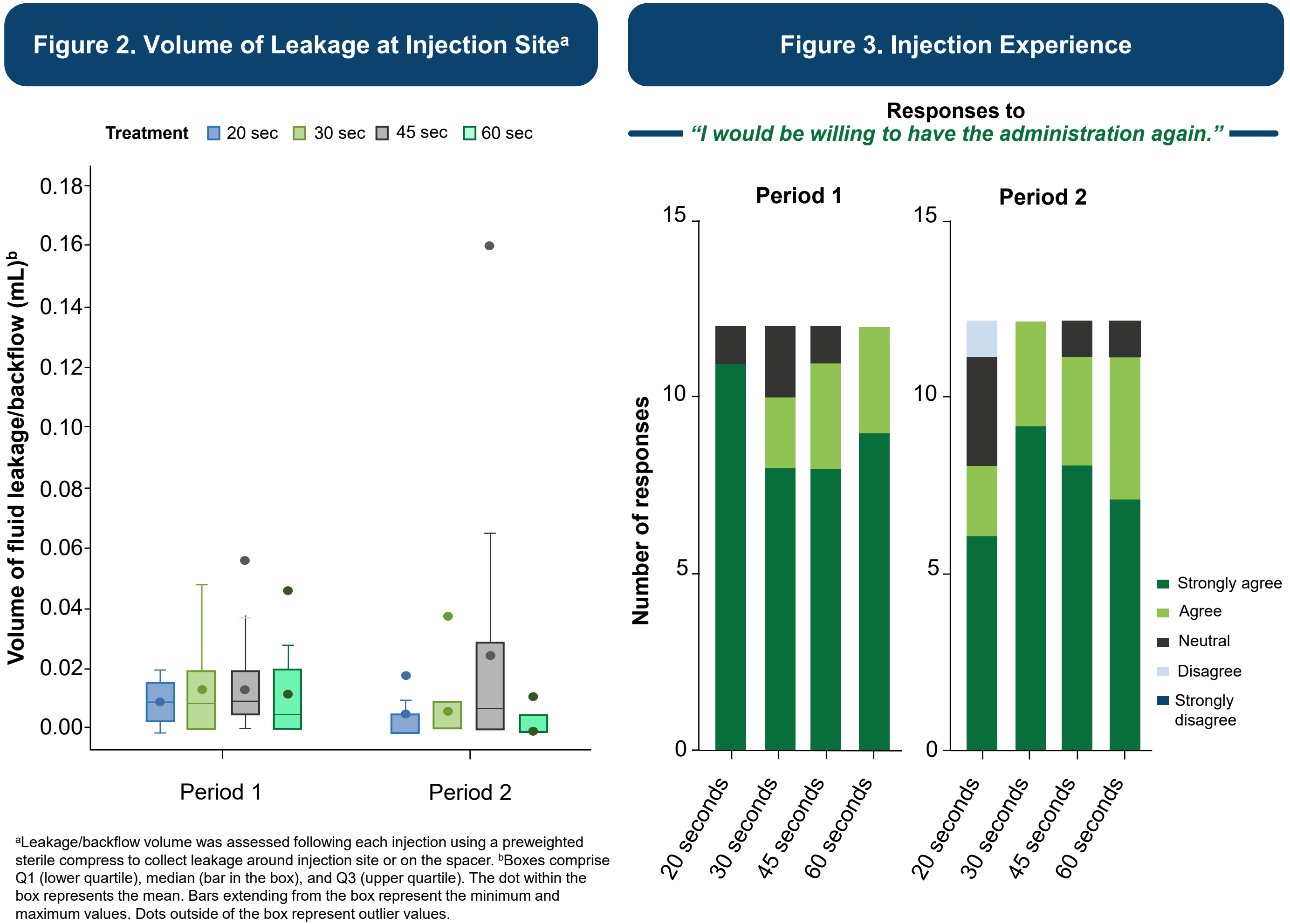
^aParticipants were randomized in a 1:1 ratio to 1 of 2 treatment sequences, which defined the order in which they received the 2 presentations of efgartigimod PH20 SC (PFS and V+S) on day 1 in treatment periods 1 and 2. ^bThe efgartigimod PH20 SC single-dose PFS is administered by attaching a separate 25G safety needle. ^cEach sequence included 2 dosing periods. ^dParticipants were administered efgartigimod PH20 SC 1000 mg at 2 different injection times in the 2 dosing periods. The administration times of efgartigimod PH20 SC for participants in groups A, B, C, and D were 20, 30, 45, and 60 seconds, respectively. ^eTo allow delivery of efgartigimod PH20 SC at specified injection durations, contents of the PFS were transferred to an administration syringe and administered via syringe pump with a 27G needle under the supervision of site staff members. A different PFS batch was used for this study with a minor difference in formulation; this is not expected to impact the conclusions of the injection speed study.

Injection Speed Study in Healthy Participants

- Design:** Healthy participants were randomized to receive efgartigimod PH20 SC 1000 mg in 1 of 12 injection sequences, each with 2 dosing periods. In each dosing period, participants received injections over 20, 30, 45 or 60 seconds^a
- Results:** There was no meaningful difference in the mean fluid leakage/backflow volume at the injection site across the injection time groups (**Figure 2**). All participants received at least 90%^b of the entire injection volume across the injection time groups. Overall, the majority (>87%) of participants either strongly agreed or agreed to have the administration again 1 hour after injection (**Figure 3**). No clear preference toward an injection time group was concluded
- Safety:** All TEAEs were mild in severity, except for 2 moderate TEAEs of dysuria and pericoronitis in 2 participants (4.2%; 2 events). No participants died during the study. Local injection site scoring was similar and consistent across the injection time groups for the 3 assessed categories^c at all time points

See additional participant information and safety data by following the QR code above

^aTo allow delivery of efgartigimod PH20 SC at specified injection durations, contents of the PFS were transferred to an administration syringe and administered via syringe pump with a 27G needle under the supervision of site staff members. A different PFS batch was used for this study with a minor difference in formulation; this is not expected to impact the conclusions of the injection speed study. ^b90% of efgartigimod PH20 SC volume administered is considered an entire dose. ^cThe 3 assessed categories of local tolerability included erythema, swelling, and induration.



SUPPLEMENTARY INFORMATION

Bioequivalence Study in Healthy Participants

Table S1. Participant Baseline Demographics
Overall Population, Safety Analysis Set

	Overall population (n=72)
Age, y, mean (SD)	36 (8.8)
Sex, n (%)	
Female	44 (61.1)
Male	28 (38.9)
Race, n (%)	
American Indian or Alaskan Native	3 (4.2)
Black or African American	9 (12.5)
White	58 (80.6)
White, Black, or African American	1 (1.4)
Black, African American, American Indian, or Alaskan Native	1 (1.4)
Ethnicity, n (%)	
Hispanic or Latino	57 (79.2)
Not Hispanic or Latino	15 (20.8)
BMI, kg/m², mean, (SD)	25.3 (2.8)
Weight, kg, mean (SD)	71.6 (12.5)

Table S2. Overview of TEAEs
Safety Analysis Set

	PFS (N=71)		V+S (N=72)	
	n (%)	m	n (%)	m
≥1 TEAE	49 (69.0)	75	52 (72.2)	83
≥1 treatment-related TEAE	44 (62.0)	56	45 (62.5)	63
≥1 grade 3 or higher	0	0	1 (1.4) ^a	1
≥1 infection TEAE	0	0	3 (4.2) ^b	3
≥1 injection site reaction	36 (50.7)	36	43 (59.7)	43
≥1 injection-related reaction	3 (4.2)	4	8 (11.1)	8
≥1 TEAE leading to discontinuation	0	0	0	0
≥ 1 SAE	0	0	0	0
≥1 treatment-related SAE	0	0	0	0
≥1 SAE leading to discontinuation	0	0	0	0
≥1 fatal TEAE	0	0	0	0
Most common TEAEs (≥5% of participants)				
Injection site discoloration	15 (21.1)	15	13 (18.1)	13
Injection site reaction	12 (16.9)	12	17 (23.6)	17
Injection site hemorrhage	5 (7.0)	5	8 (11.1)	8
Injection site erythema	4 (5.6)	4	4 (5.6)	4

^aGrade ≥3 TEAEs were reported for 1 (1.4%; 1 event) participant who received efgartigimod PH20 SC delivered via vial. The TEAE was an increase in blood pressure and was not considered related to efgartigimod PH20 SC administration. The TEAE resolved the day of the event and was reported. All other TEAEs were grade 1 or 2. ^bAESIs defined as TEAEs in the SOC *Infections and infestations* were reported in 3 (4.2%; 3 events) participants who received efgartigimod PH20 SC via vial. All infections were grade 2.

ABBREVIATIONS
AESI, adverse event of special interest; BMI, body mass index; m, number of events; PH20, recombinant human hyaluronidase PH20; PFS, prefilled syringe; SAE, serious adverse event; SC, subcutaneous; SD, standard deviation; SOC, system organ class; TEAE, treatment-emergent adverse event; V+S, vial and syringe.

Injection Speed Study in Healthy Participants

Table S3. Participant Baseline Demographics
Safety Analysis Set

	A: 20 sec (n=12)	B: 30 sec (n=12)	C: 45 sec (n=12)	D: 60 sec (n=12)	Overall (n=48)
Age, y, mean (SD)	26.9 (7.8)	28.8 (5.7)	27.8 (8.8)	27.4 (6.7)	27.7 (7.1)
Sex, n (%)					
Female	8 (66.7)	7 (58.3)	3 (25.0)	8 (66.7)	26 (54.2)
Male	4 (33.3)	5 (41.7)	9 (75.0)	4 (33.3)	22 (45.8)
Race, n (%)					
White	10 (83.3)	9 (75.0)	11 (91.7)	11 (91.7)	41 (85.4)
Black or African American	1 (8.3)	1 (8.3)	1 (8.3)	1 (8.3)	4 (8.3)
Asian	0	0	0	0	0
American Indian or Alaska Native	1 (8.3)	0	0	0	1 (2.1)
Native Hawaiian or other Pacific Islander	0	1 (8.3)	0	0	1 (2.1)
Other	0	1 (8.3)	0	0	1 (2.1)
Ethnicity, n (%)					
Hispanic or Latino	4 (33.3)	3 (25.0)	4 (33.3)	5 (41.7)	16 (33.3)
Not Hispanic or Latino	8 (66.7)	9 (75.0)	8 (66.7)	7 (58.3)	32 (66.7)
BMI, kg/m², mean, (SD)	23.2 (3.0)	25.7 (2.5)	23.7 (3.0)	24.0 (3.2)	24.2 (3.0)
Weight, kg, mean (SD)	67.6 (9.6)	78.4 (11.8)	71.4 (11.9)	69.4 (12.7)	71.7 (11.9)

Table S4. Overview of TEAEs
Safety Analysis Set

	A: 20 sec (n=24) ^a	B: 30 sec (n=24) ^a	C: 45 sec (n=24) ^a	D: 60 sec (n=24) ^a	Overall (n=48) ^a
≥1 TEAE	7 (29.2)	10 (41.7)	9 (37.5)	7 (29.2)	24 (50.0)
Treatment-related TEAEs	7 (29.2)	9 (37.5)	7 (29.2)	7 (29.2)	21 (43.8)
Not treatment-related TEAEs	1(4.2)	1 (4.2)	2 (8.3)	0	4 (8.3)
≥1 SAE	0	0	0	0	0
≥1 infection TEAE	0	1 (4.2)	0	0	1 (2.1) ^b
≥1 Infusion/injection-related reaction	1 (4.2)	2 (8.3)	1 (4.2)	0	3 (6.3)
≥1 Injection site reaction	5 (20.8)	7 (29.2)	6 (25.0)	7 (29.2)	17 (35.4)
Total participants who discontinued efgartigimod PH20 SC due to TEAE	0	0	0	0	0
Most common TEAEs (≥5% of participants)					
Injection site reaction	4 (16.7)	3 (12.5)	4 (16.7)	5 (20.8)	16 (16.7)
Injection site erythema	1 (4.2)	1 (4.2)	1 (4.2)	0	3 (6.3)

^aEach injection speed group combines data from periods 1 and 2 of the study, resulting in each individual participant being included in 2 injection speed groups. ^bThe AESI defined as an TEAE in the SOC *Infections and infestations* of *Pericoronitis* occurred during period 2 in 1/48 (2.1%) participants in group B (30 seconds). This event was considered moderate in severity. The investigator considered the event unrelated to efgartigimod PH20 SC and the participant recovered during the study.