



Safety and efficacy of remibrutinib in Japanese patients with chronic spontaneous urticaria (BISCUIT study/interim analysis)

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Table of content

1

Disclosures

2

Introduction and study design

3

Results

4

Conclusion

Conflict of interest disclosure



- ☐ I have no, real or perceived, direct or indirect conflicts of interest that relate to this presentation.
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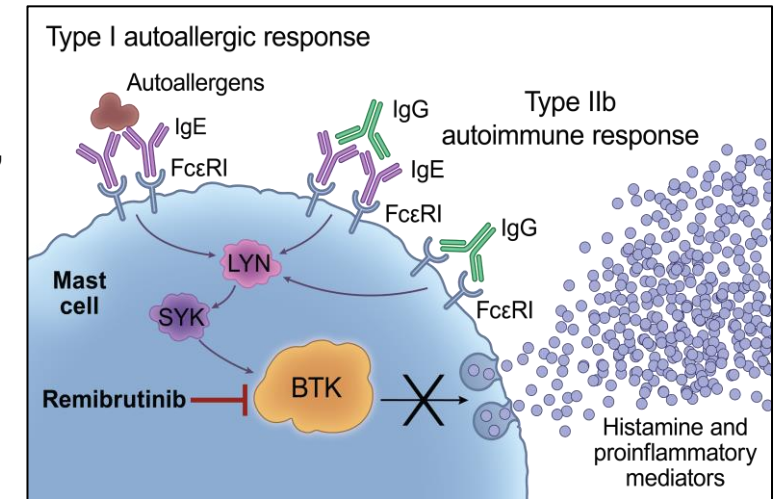
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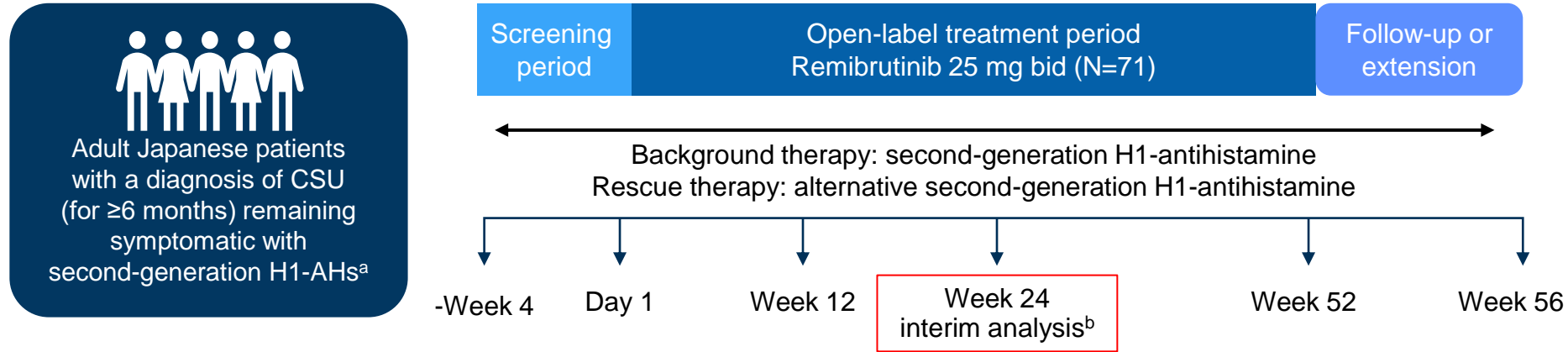
Introduction

- The Japanese Dermatological Association guideline for the treatment of urticaria 2018 defines CSU as ‘spontaneous urticaria persistent for ≥ 6 weeks’¹
- In the Phase 3 REMIX-1 (NCT05030311) and REMIX-2 (NCT05032157) studies, remibrutinib demonstrated statistically significant superiority in both primary endpoint scenarios (UAS7 and ISS7/HSS7 at Week 12) versus placebo in patients with CSU remaining symptomatic with second-generation H1-AHs²
- To satisfy regulatory requirements in Japan, the BISCUIT study (NCT05048342) aims to assess the safety, tolerability, and efficacy of remibrutinib over 52 weeks in adult Japanese patients with CSU who remain symptomatic despite H1-AH treatment



Objective: To present the interim analysis (Week 24) data of the BISCUIT study.

BISCUIT study design



BISCUIT is a single country, multicentre, open-label, single-arm Phase III study evaluating remibrutinib 25 mg bid in patients with CSU

Primary endpoint

- To evaluate the safety of remibrutinib (25 mg bid) in CSU patients

Secondary endpoints (at Week 12)

- Change from baseline in UAS7,^c ISS7 and HSS7
- Proportion of patients achieving
 - well-controlled disease (UAS7≤6)
 - complete response (UAS7=0)

AH, antihistamine; bid, twice daily; CSU, chronic spontaneous urticaria; H1, histamine 1; HSS7, weekly Hives Severity Score; ISS7, weekly Itch Severity Score; UAS7, weekly Urticaria Activity Score.

^aPresence of itch and hives for ≥6 consecutive weeks prior to screening despite the use of a second-generation H1-AH; UAS7 score ≥16, ISS7 score ≥6, and HSS7 score ≥6 during the 7 days prior to randomisation (day 1). ^bAn interim analysis was conducted when all patients had completed Week 24 visit or discontinued early. ^cThe UAS7 is the sum of the HSS7 and the ISS7 and is a widely accepted tool for assessing symptoms of CSU and ranges from 0 to 42 (a higher score indicates more activity).

Patient demographics and baseline characteristics (safety set)

Characteristic	Remibrutinib 25 mg bid (N=71)
Age (years); mean±SD	43.5±12.52
Gender (female); n (%)	54 (76.1)
Baseline UAS7 score; mean±SD	28.4±7.18
Baseline UAS7 disease status; n (%)	
Moderate disease ($16 \leq \text{UAS7} < 28$)	32 (45.1)
Severe disease ($28 \leq \text{UAS7} \leq 42$)	39 (54.9)
Baseline ISS7 score; mean±SD	12.6±3.46
Baseline HSS7 score; mean±SD	15.8±4.75
Duration of CSU (years); mean±SD	4.7±4.34
Previous exposure to anti-IgE biologics for CSU; n (%)	6 (8.5)
Previous experience of angioedema; n (%)	5 (7.0)
Diagnosis of concomitant ClndU; n (%)	9 (12.7)

Overview of AEs

	Remibrutinib 25 mg bid (N=71), n (%)
Patients with AE(s)	60 (84.5%)
Mild	36 (50.7%)
Moderate	24 (33.8%)
Severe	0
SAEs	3 (4.2%)
Discontinuation of study treatment due to any AE(s)	1 (1.4%)

- The median duration of exposure for remibrutinib 25 mg bid was 24 weeks
- All AEs were mild or moderate, none were severe
- All three SAEs (Meniere's disease, epiretinal membrane, and rhegmatogenous retinal detachment) were considered unrelated to remibrutinib
- One AE leading to study treatment discontinuation was a case of (worsening) moderate dermatitis atopic and was not considered to be related to the study treatment by the investigator

Most common AEs by system organ class (≥5%; safety set)

Preferred terms	Remibrutinib 25mg bid N=71, n (%)
COVID-19	10 (14.1)
Headache	9 (12.7)
Dermatitis atopic	6 (8.5)
Diarrhoea	6 (8.5)
Acne	5 (7.0)
Eczema	5 (7.0)
Dyslipidaemia	4 (5.6)
Eczema asteatotic	4 (5.6)
Nasopharyngitis	4 (5.6)
Purpura	4 (5.6)
Tonsillitis	4 (5.6)

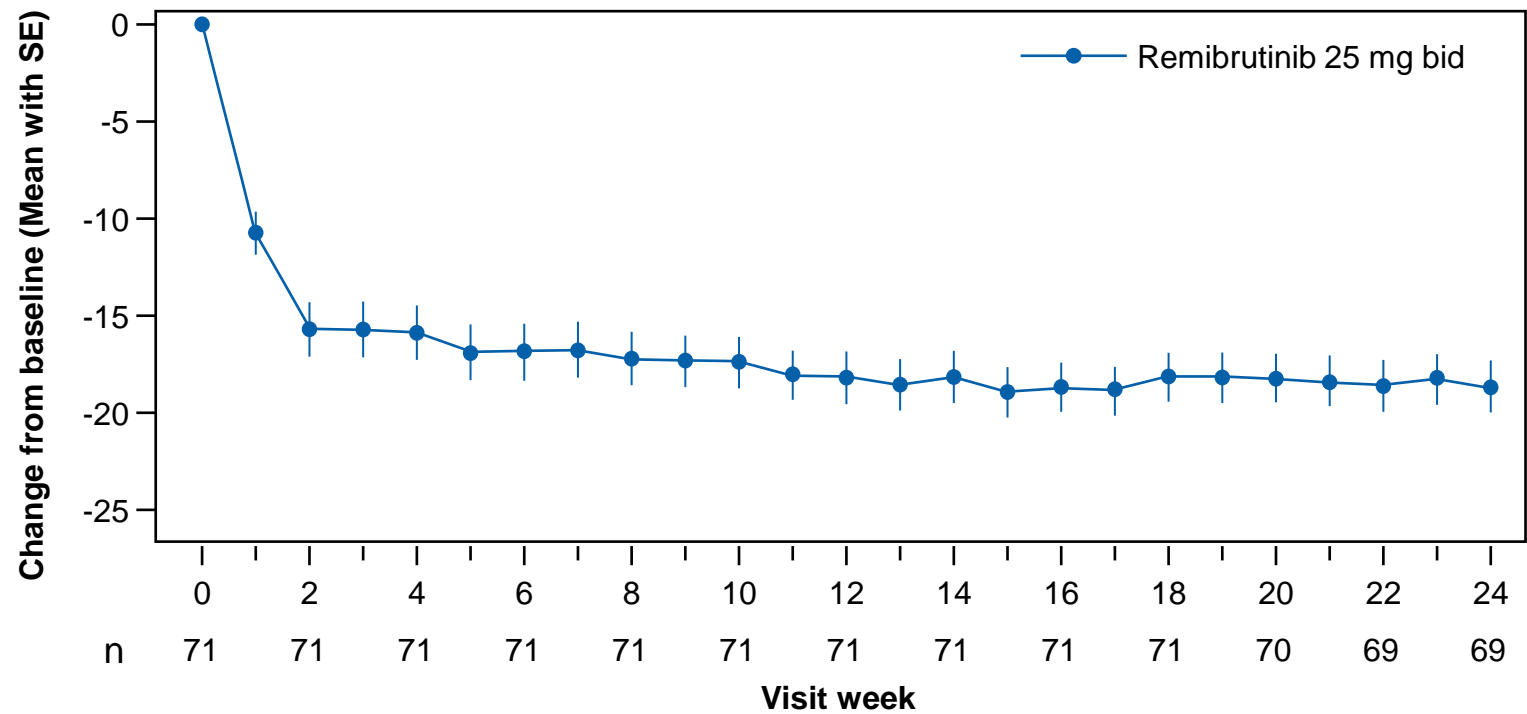
- Most common AE by primary SOC was skin and subcutaneous tissue disorders (49.3%) represented by PT such as dermatitis atopic, acne, eczema, eczema steatotic, purpura
- Study was conducted during the COVID-19 pandemic

Preferred terms are sorted in descending frequency. A patient with multiple AEs within a preferred term is counted only once for the preferred term.

MedDRA Version 26.0 has been used for the reporting.

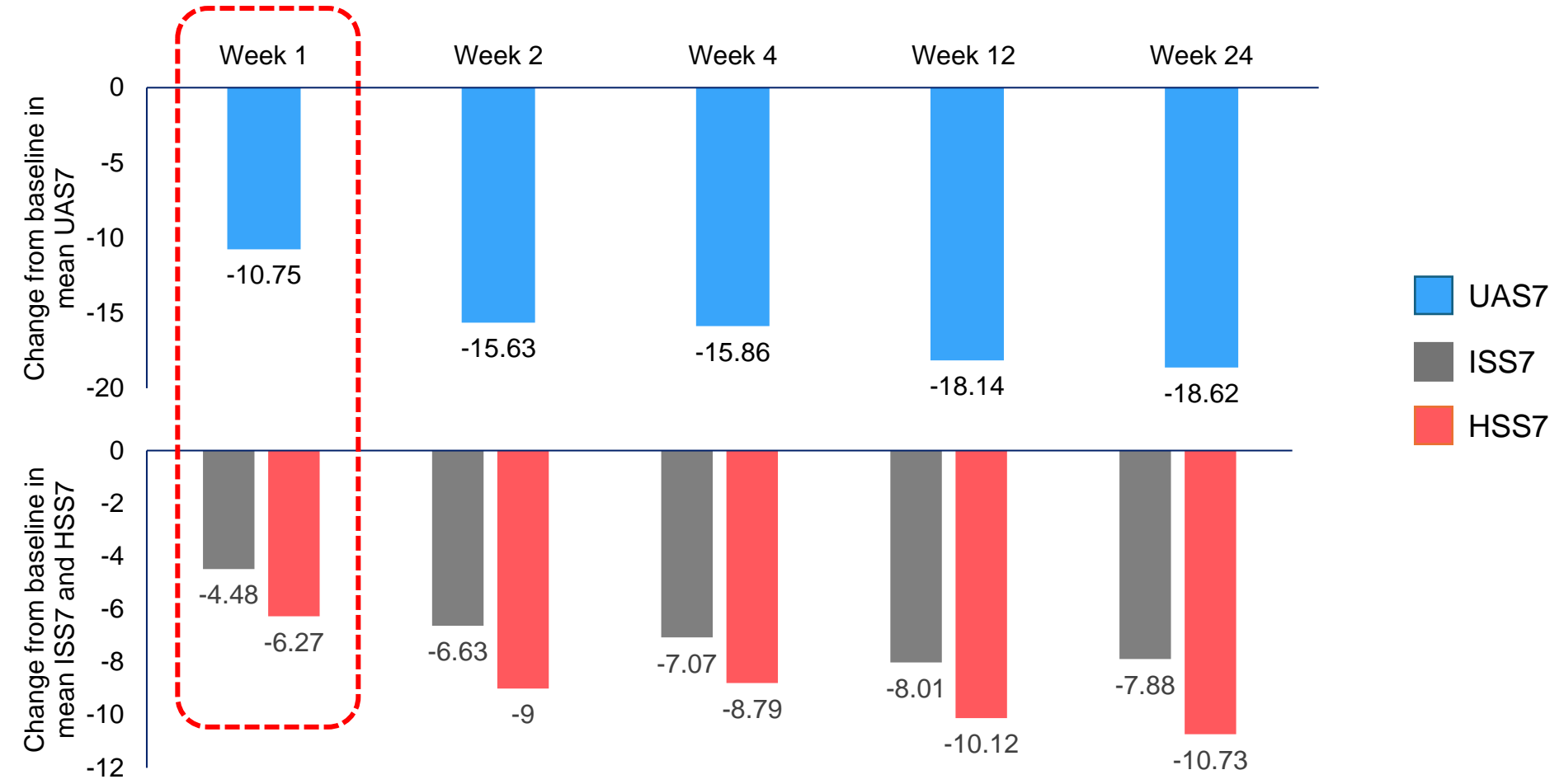
AE, adverse event; bid, twice daily; MedDRA, medical dictionary for regulatory activities.

Change from baseline in mean UAS7 with remibrutinib



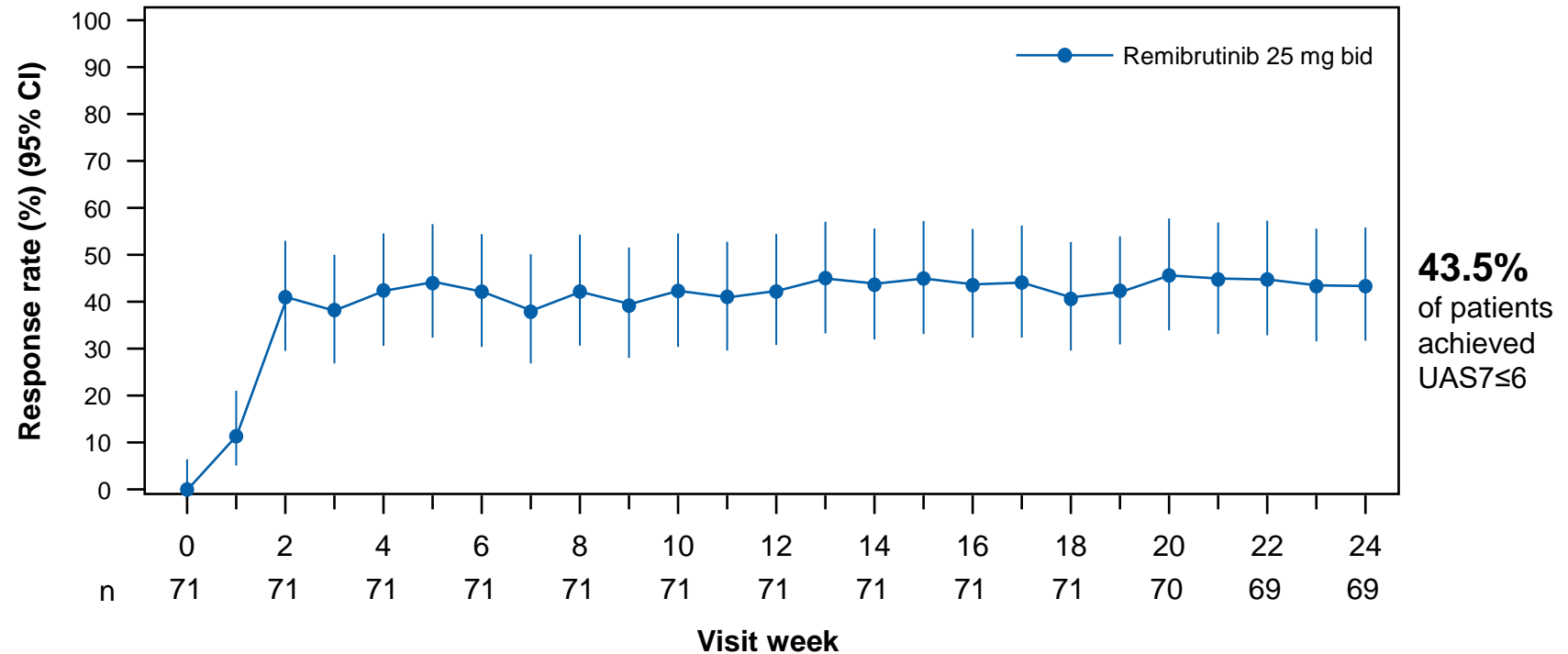
The absolute mean UAS7 at baseline was 28.37, with an improvement observed as early as Week 1 (mean change from baseline -10.75), further improving at Week 12 (-18.1) and sustained through Week 24 (-18.6).

Early improvement in USA7, ISS7 and HSS7 with remibrutinib



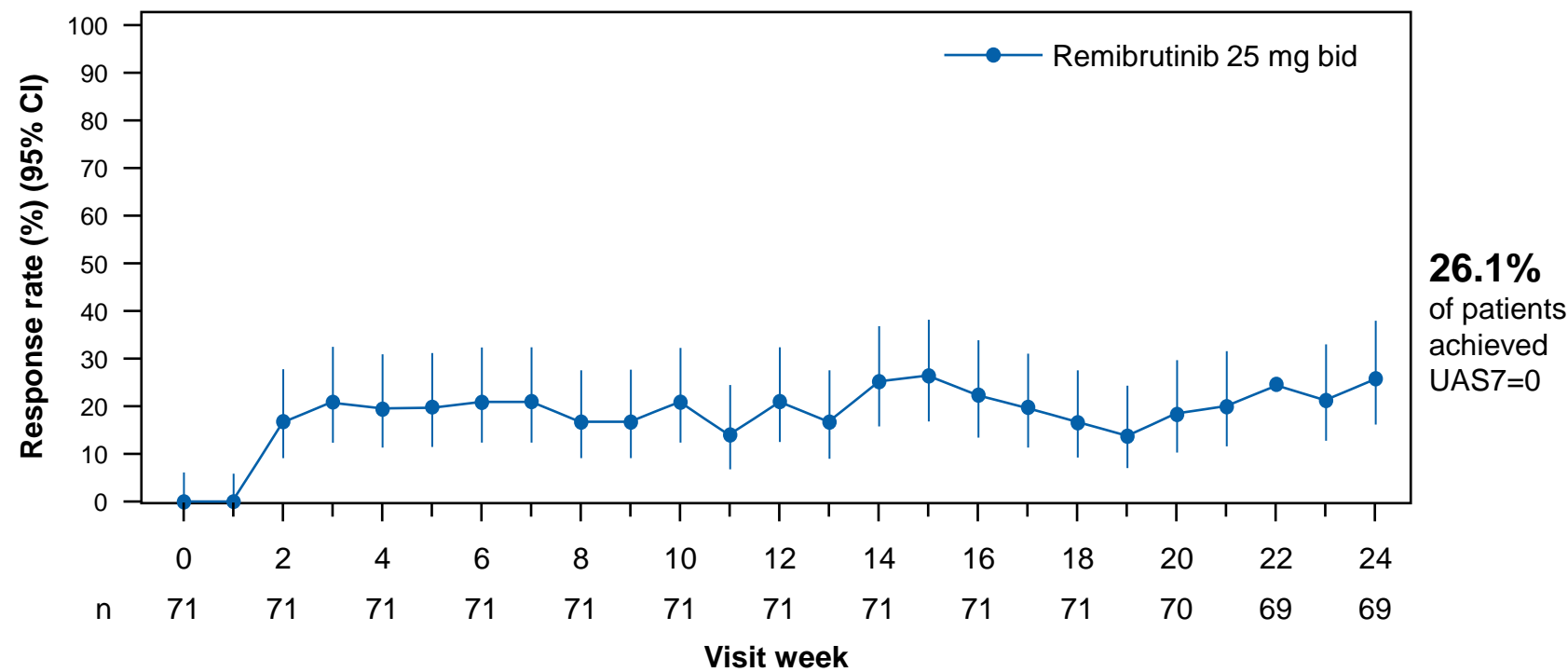
Mean baseline values: UAS7 = 28.37; ISS7 = 12.58; HSS7 = 15.80.

Patients achieving well-controlled disease (UAS7 ≤ 6) (%) with remibrutinib



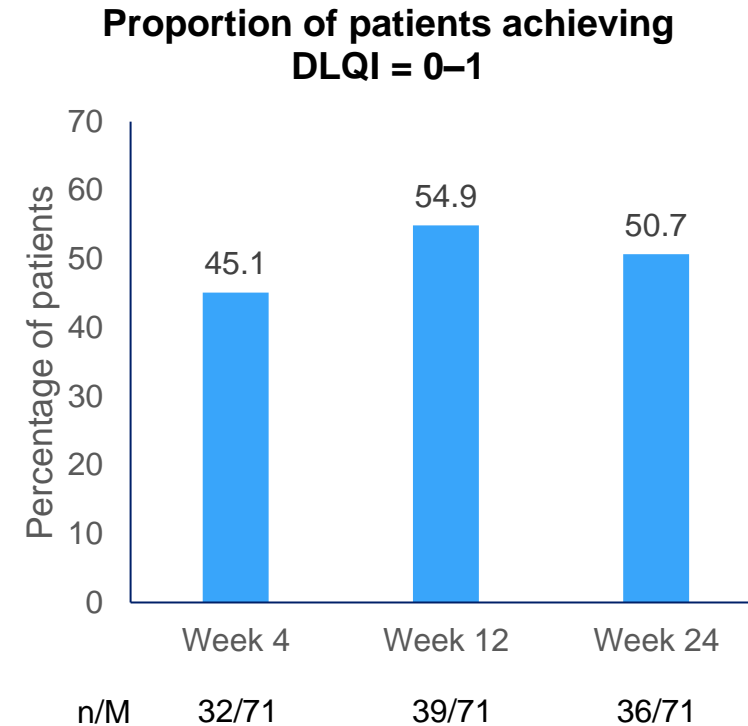
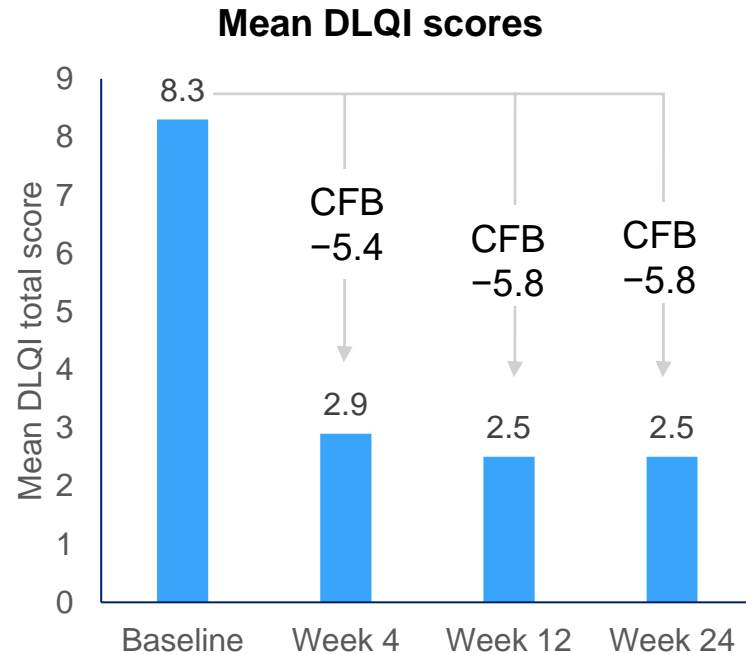
A total of 29/71 patients (40.8%) achieved well-controlled disease (UAS7 ≤ 6) as early as Week 2 and sustained through until Week 12 (30/71, 42.3%) and Week 24 (30/69, 43.5%).

Patients achieving a complete response (UAS7=0) (%) with remibrutinib



A total of 12/71 patients (16.9%) achieved complete absence of itch and hives (UAS7 = 0) as early as Week 2, which increased further at Week 12 (15/71, 21.1%) and sustained through Week 24 (18/69, 26.1%).

Majority of patients on remibrutinib achieved no impact of CSU on dermatology-related QoL



The mean change from baseline in the DLQI total score was –5.8 at Week 24; importantly, more than 50% patients reported no impact of CSU on their QoL.

CONCLUSIONS

- The BISCUIT interim analysis at **Week 24** showed **favourable safety and tolerability** profile of **remibrutinib 25 mg bid** in adult **Japanese** patients with **CSU** remaining symptomatic despite H1-AH treatment, findings consistent with the known safety profile of remibrutinib
- Most of the **AEs** were either **mild** or **moderate**, all SAEs were considered not related to study treatment and were uncommon
- Patients experienced **improvements in symptoms** with remibrutinib, **as early as Week 1, sustained up to Week 24**, enabling a substantial proportion of Japanese patients to achieve well-controlled disease
- **Remibrutinib** also enhanced the QoL of patients, with **half of all patients** at Week 24 experiencing no further impact of CSU on their QoL (**DLQI = 0–1**), despite reporting poor QoL at baseline
- These findings suggest the potential of remibrutinib to become **a novel oral treatment option** that provides **fast** (observed as early as Week 1) and **sustained symptom relief** for **Japanese** patients with **CSU**