

Durability of Dysphagia Improvements Following Single Administration of EP-104GI in Participants With Eosinophilic Esophagitis During Dose Escalation in the RESOLVE Trial

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BACKGROUND

- Eosinophilic esophagitis (EoE) is a chronic, immune-mediated disease where local inflammation and fibrosis negatively impact quality of life by leading to dysphagia (difficulty swallowing), pain, and food impaction¹
- EP-104GI is a novel, long-acting submucosal formulation of fluticasone propionate particles designed for sustained, localized drug release within esophageal tissue, currently investigated for the treatment of EoE²
- We report here the durability of improvements for dose cohorts reporting over 36 and 52 weeks in the RESOLVE trial

METHODS

- RESOLVE (NCT05608681) is a Phase 1b/2, multicenter, open-label trial, evaluating the safety, tolerability and feasibility of EP-104GI injection in adults with EoE
- In part 1, EP-104GI was injected at baseline in the esophageal wall during endoscopy in escalating dose cohorts (number of sites or dose per site) (Fig 1)
- Participants (n = 3/cohort) were followed for up to 24 or 52 weeks

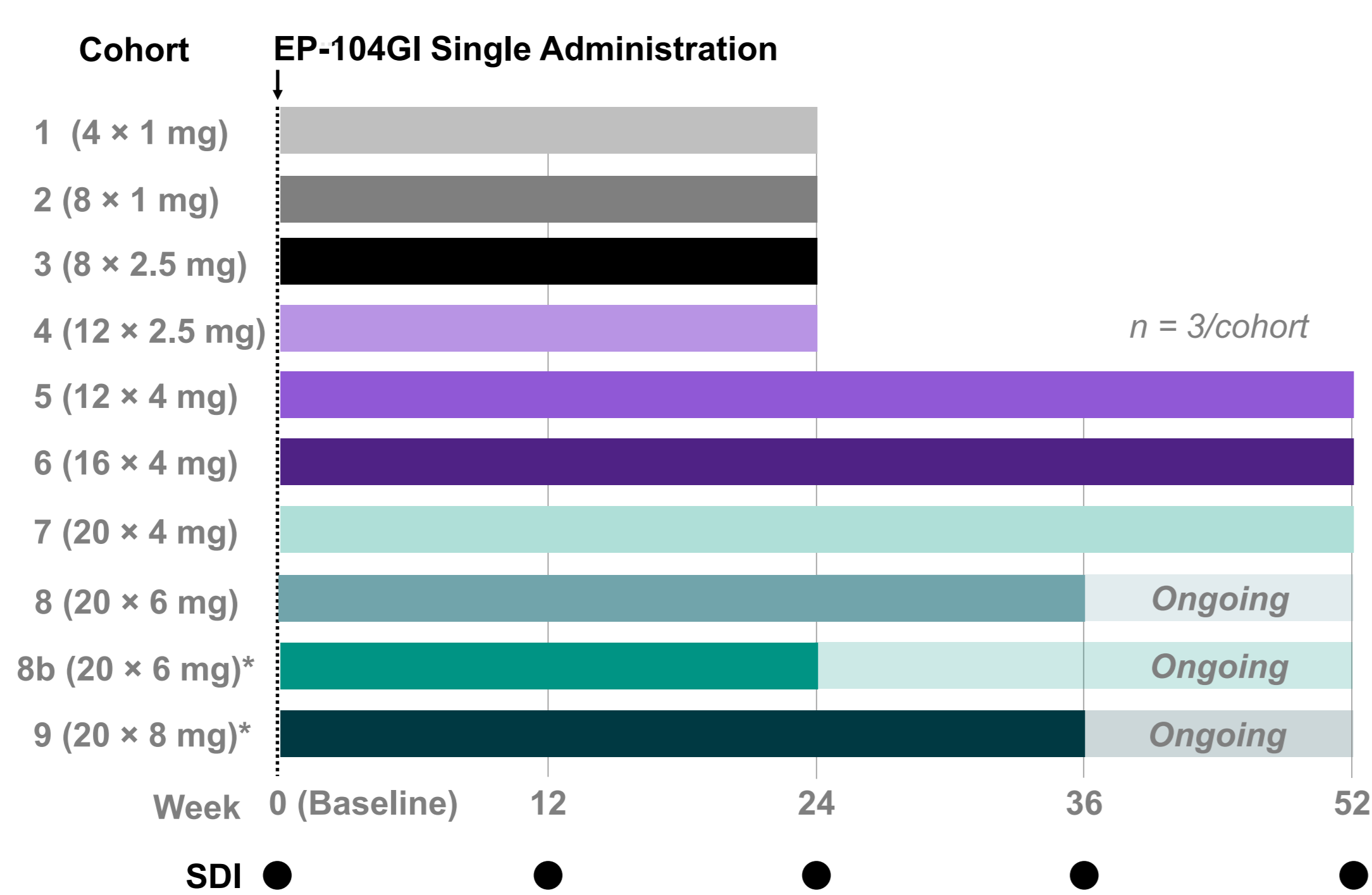


Figure 1. RESOLVE-I Dose Escalation Study Design

Straumann Dysphagia Index

- The **Straumann Dysphagia Index (SDI)** quantifies the **severity and frequency** of dysphagia over a 7-day recall period^{3,4}
- In RESOLVE part 1, SDI assessments were conducted on all cohorts at baseline, week 12, 24, 36, and 52

REFERENCES

1. Dellon et al. (2025) *AJG* 120(1):31-59. 2. Malone et al. (2025) *Gastroenterology*, 169:1 S-402. 3. Straumann et al. (2010) *Gastroenterology* 139(5):1526-37, 1537.e1. 4. Schoepfer et al. (2016) *Dis Esophagus*. 29(8):959-966

Abbreviations: EoE, Eosinophilic esophagitis; SDI, Straumann Dysphagia Index

RESULTS

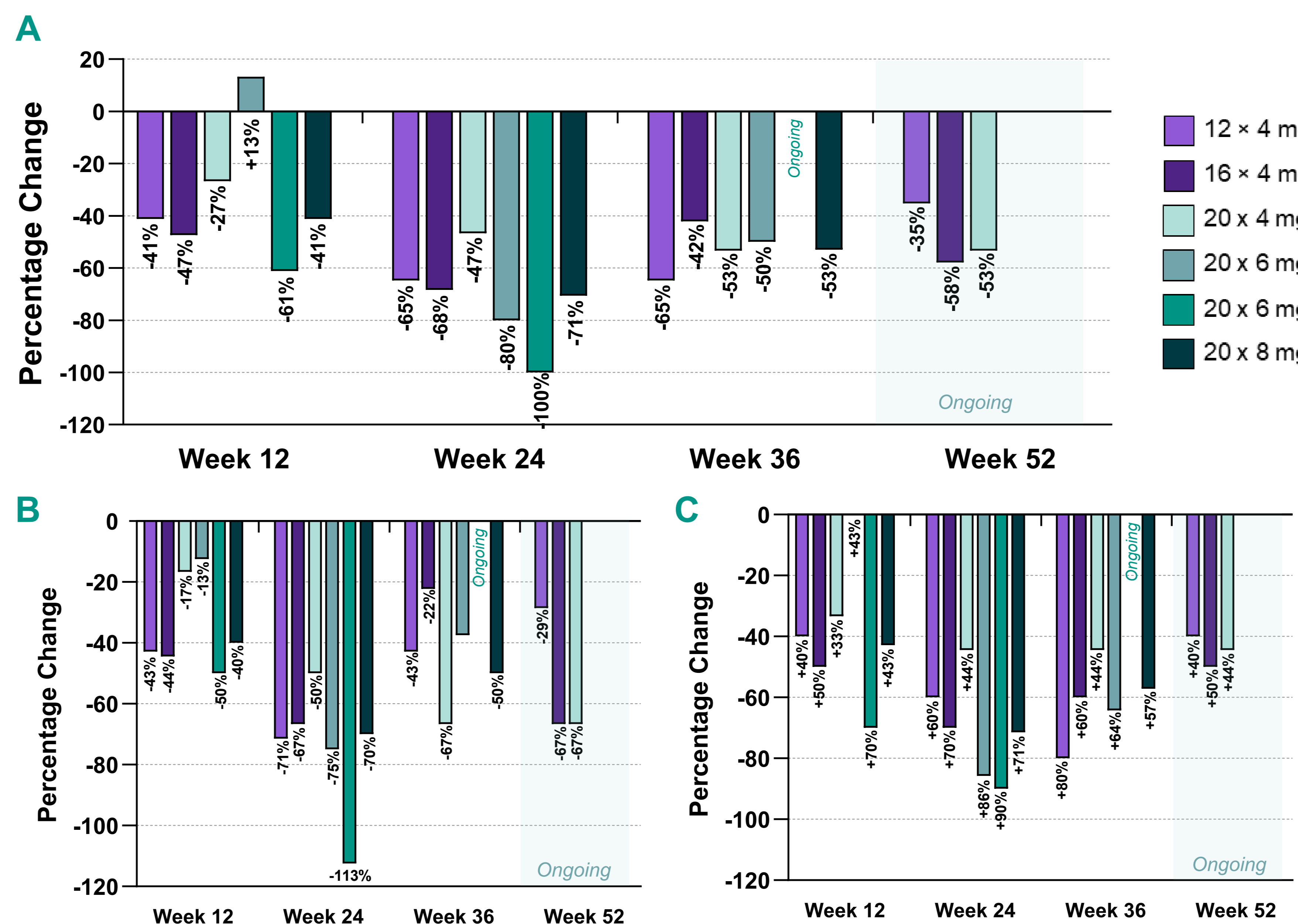


Figure 2. Mean Percentage Change From Baseline in SDI Score (A), Frequency (B) and Intensity (C) Sub Scores

Table 1. SDI Scores Across Cohorts

Cohort No.	1	2	3	4	5	6	7	8	8b*	9*
Sites x Dose	4 x 1 mg	8 x 1 mg	8 x 2.5 mg	12 x 2.5 mg	12 x 4 mg	16 x 4 mg	20 x 4 mg	20 x 6 mg	20 x 6 mg	20 x 8 mg
Total Dose	4 mg	8 mg	20 mg	30 mg	48 mg	64 mg	80 mg	120 mg	120 mg	160 mg
Mean SDI Score at Baseline										
Baseline	5.33	6.67	6.00	7.33	5.67	6.33	5.00	5.00	6.00	5.67
Mean Change From Baseline SDI Score										
Week 12	-4.00	-2.67	-1.67	-3.33	-2.33	-3.00	-1.33	+0.66	-3.67	-2.33
Week 24	-4.00	-3.33	-1.00	-4.00	-3.67	-4.33	-2.33	-4.00†	-6.00†	-4.00
Week 36	-	-	-	-	-3.67	-2.67	-2.67	-2.50†	ongoing	-3.00
Week 52	-	-	-	-	-2.00	-3.67	-2.67	ongoing	ongoing	ongoing
Number of Participants with Reduction of ≥3 Points From Baseline										
Week 12	1/2	1/3	2/3	2/3	2/3	2/3	1/3	0/3	2/3	2/3
Week 24	1/1	2/3	1/2	2/3	2/3	3/3	2/3	2/2†	2/2†	2/3
Week 36	-	-	-	-	3/3	1/3	2/3	1/2†	ongoing	2/3
Week 52	-	-	-	-	2/3	2/3	2/3	ongoing	ongoing	ongoing

* Administration for 2 dose cohorts (8b & 9) was performed using updated needle/catheter combinations

† : n=2

- All dose cohorts available to date showed substantial reductions in SDI total scores at week 24, 36 and 52, indicating consistent improvement from baseline (Fig 2)
- At week 36, all dose cohorts reported to date showed mean improvements of 2.5 points or more (Tab 1)
- A reduction of 3 points or more in SDI has been proposed as a clinical response threshold³
 - At week 36, 3/3, 1/3, 2/3, 1/2 and 2/3 participants in dose cohorts 5, 6, 7, 8 and 9, respectively, reported SDI improvements of ≥3 points (9/14 in total) (Tab 1)
- Patients reported generally consistent improvements in both frequency and intensity of dysphagia with EP-104GI treatment (Fig 2b-c)
 - Cohort 8 (20x6mg) reported a transient increase in intensity concomitant with a decrease in frequency of dysphagia at week 12

CONCLUSIONS

- Administration of EP-104GI has been feasible, generally safe and well tolerated to date, with no clinically significant signs of adrenal suppression, glucose derangement, or other dose-limiting toxicity reported
- The study found persistent improvement in dysphagia over 24, 36, and 52 weeks following a single administration of EP-104GI in participants with EoE
- Overall, our results support the continued development of EP-104GI for the treatment of EoE