

Results from RESOLVE, An Ongoing Phase 1b/2a Study of EP-104GI (Long-Acting Fluticasone Propionate Injectable Suspension) For Eosinophilic Esophagitis: Dose Escalation Cohorts 3 Through 6

QR Code

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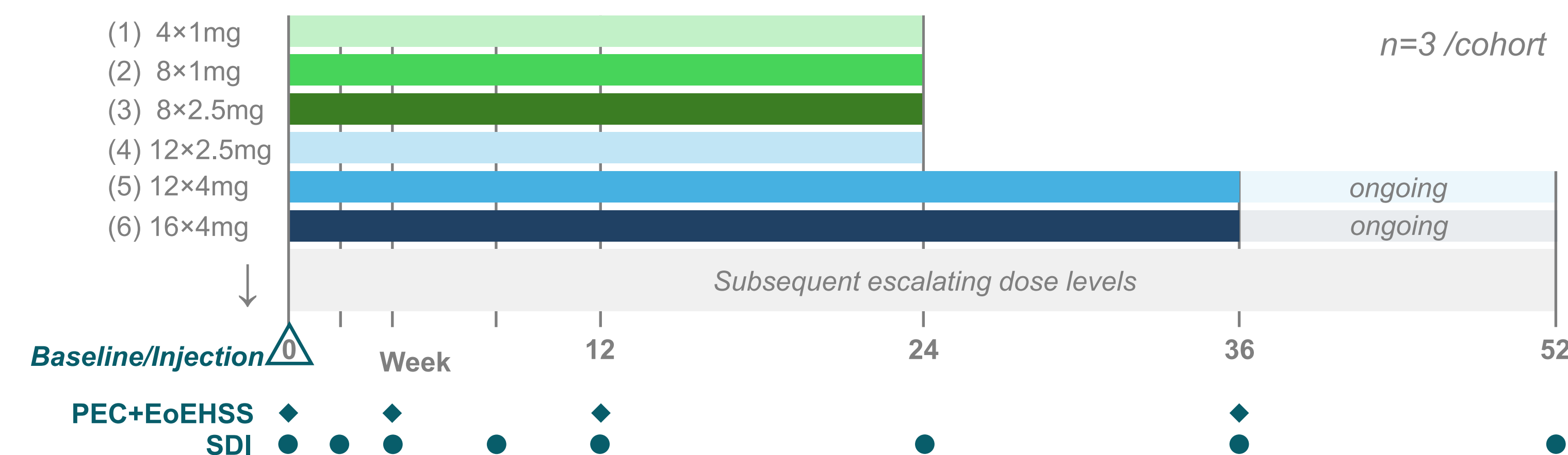
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BACKGROUND

- Local inflammation in eosinophilic esophagitis (EoE) leads to burdensome symptoms such as dysphagia, but treatment options remain limited¹
- The broad anti-inflammatory action of topical corticosteroids enables them to address EoE’s complex pathogenesis²
 - Transient and indirect contact of swallowed topical corticosteroids with the mucosa may limit efficacy
- EP-104GI is as a submucosal, long-acting formulation of fluticasone propionate microparticles, engineered to provide controlled, localized drug release at a consistent rate.
 - It presents the potential to locally address esophageal inflammation³

METHODS

- RESOLVE part 1 (NCT05608681) is a Phase 1b, multicenter, open-label, dose-escalation trial to evaluate the safety, tolerability and feasibility of EP-104GI injection in adults with EoE (Fig 1)



- EP-104GI was injected in esophageal layers in alternating quadrants during endoscopy in escalating dose levels (number of sites and dose per site)
- Participants are followed for up to 24 (4×1mg to 12×2.5mg) or 52 weeks (12×4mg, 16×4mg and subsequent dose levels)

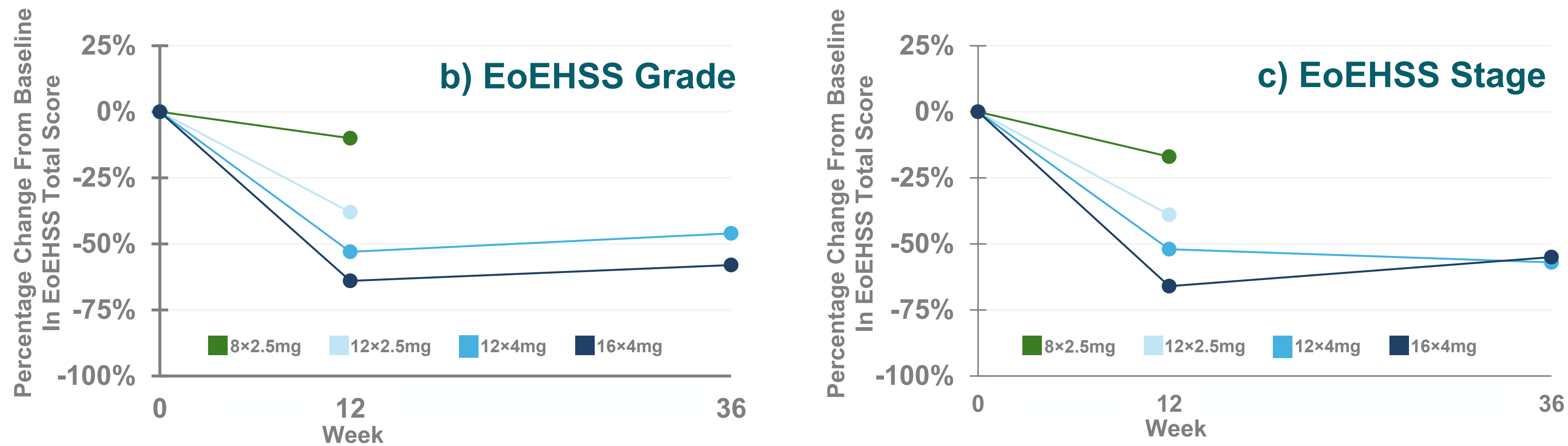
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1. Dellon et al. (2025) AJG 120(1):31-59. 2. Schoepfer et al. (2024) Inflamm Intest Dis. 9(1):199–209 3. Malone et al. (2025) Gastroenterology, 169:1 S-402. 4. 1. Schoepfer et al. (2016) Dis Esophagus. 29(8):959-966.

RESULTS

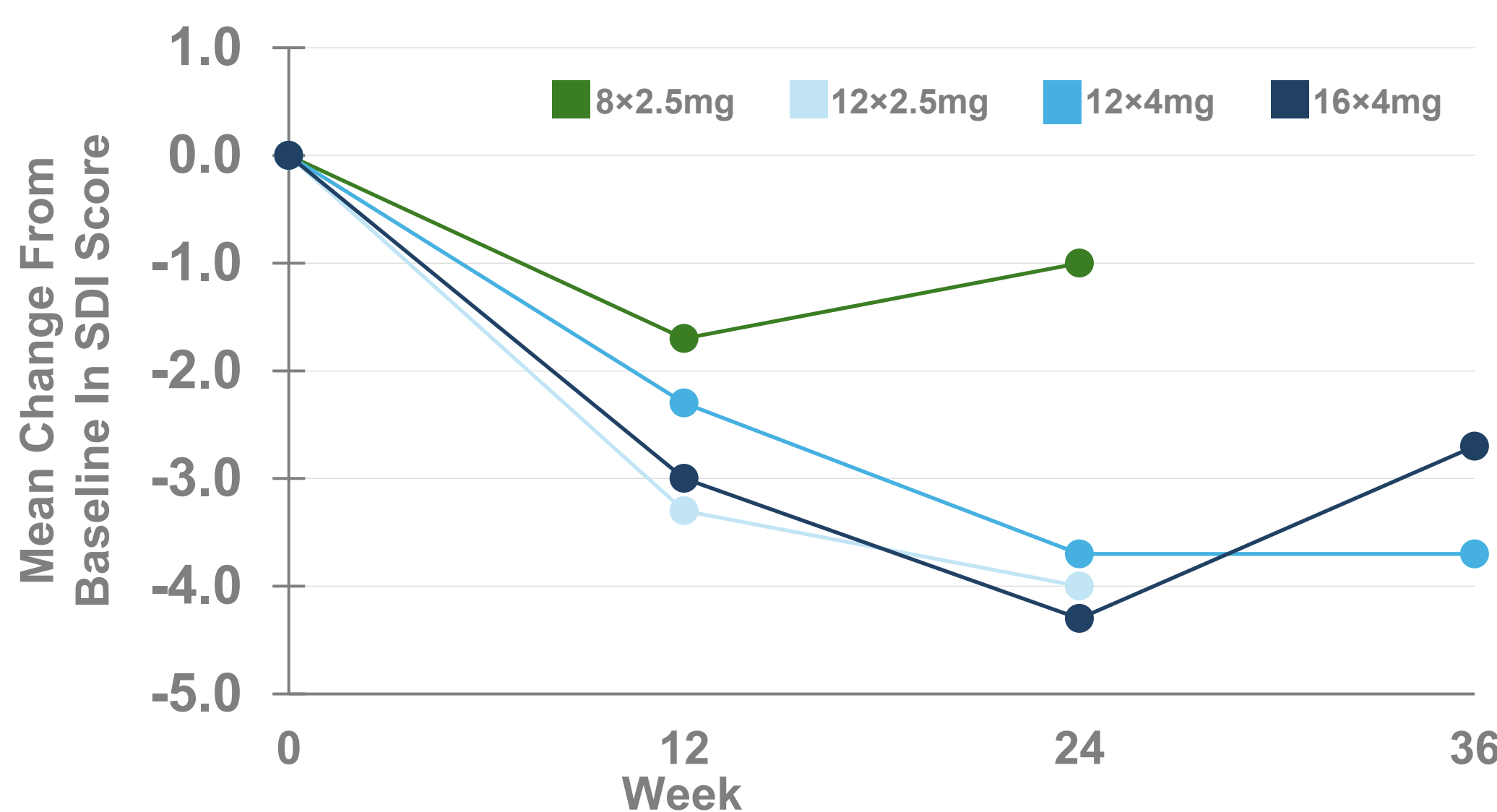
Inflammation

- Inflammation markers and histological scores show an escalating response for doses reported
- Week 36: Improvements >30% in Esophageal Biopsies With Peak Eosinophil Count (PEC) ≤6/hpf (Fig. 2a)
- Week 36: Improvements >45% in EoE Histology Scoring System (EoEHSS) grade and stage scores (Fig. 2b&c)



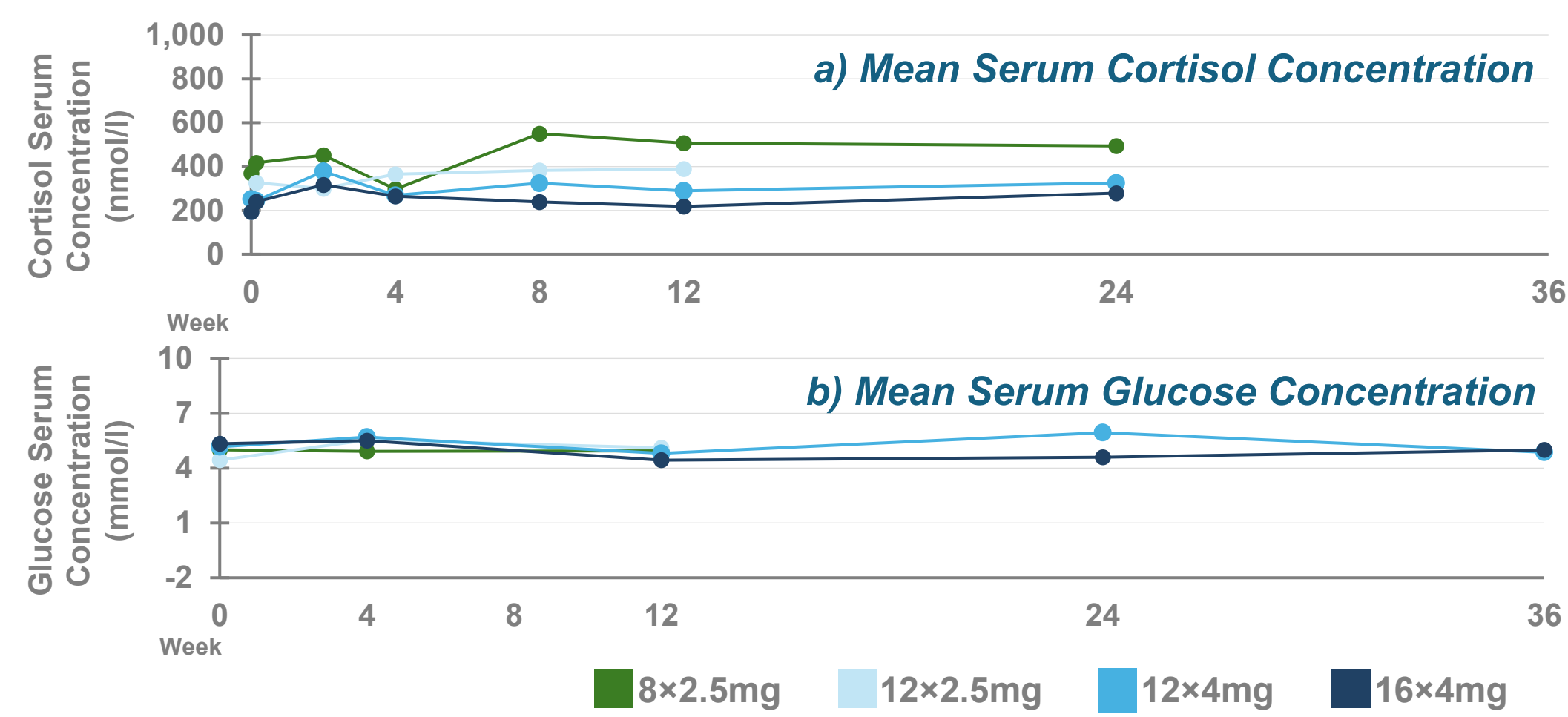
Dysphagia

- Persistent, long-term improvements in patient-reported dysphagia following single administration of EP-104GI
- Week 24: Most cohorts demonstrate a response in Straumann Dysphagia Index ≥3⁴ (Fig. 3)
- Week 36: Doses of 12×4mg and 16×4mg maintained mean improvements >2.5 (Fig. 3); relative change from baseline between –42% and –65% at week 36. (data not shown)



Safety

- No Dose-Limiting Toxicity Observed to Date
- Serum concentrations of glucose and cortisol were stable following EP-104GI administration (Fig. 4)
- No serious treatment-emergent adverse events were reported to date*



* Treatment-emergent adverse events related to EP-104GI administration for doses reported included chest pain, nausea, throat tightness, pressure sensation and esophageal sensitivity

CONCLUSIONS

- EP-104GI administration has been feasible, safe and well tolerated to date, with no gastrointestinal candidiasis, signs of adrenal suppression, or other dose-limiting toxicity reported
- Escalating improvements in inflammation and long-term improvements in dysphagia support the investigation of escalating dose levels over a 52-week post-dose period