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

Malone A.¹, Helliwell J.¹, Kowalski M. M.¹, Nguyen N², Ko H. H.², Afif W⁴, Holtmann G⁵, Bredenoord A. J.⁶ Dobek C¹, Ravikumar P, Peck V, <u>Dellon E. S.⁷</u>

1.Eupraxia Pharmaceuticals Inc. Victoria, Canada 2.Royal Adelaide Hospital, Adelaide, Australia 3.G.I. Research Institute, Vancouver, Canada 4. McGill University Health Center, Montreal, Canada 5. Princess Alexandra Hospital, Woolloongabba, Australia 6.Amsterdam UMC, Netherlands 7.UNC School of Medicine, NC, USA

ACCESS E-POSTER

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BACKGROUND

- Complex local inflammation in eosinophilic esophagitis (EoE) leads to burdensome symptoms such as dysphagia, but treatment options remain limited¹
- O The broad anti-inflammatory action of topical corticosteroids enables them to address EoE's complex pathogenesis² OTransient and indirect contact of swallowed topical corticosteroids with the mucosa may limit efficacy

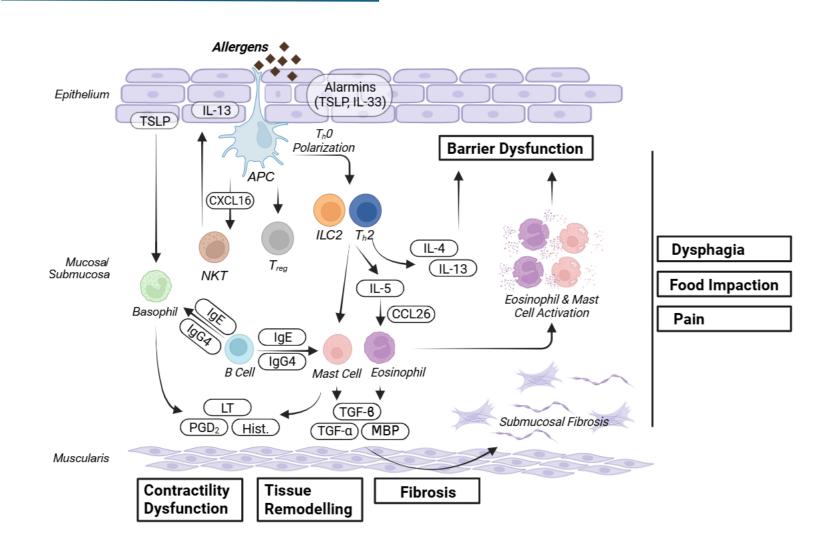


Fig 1. Eosinophilic Esophagitis Pathogenesis

O EP-104GI is as a submucosal, long-acting formulation of fluticasone propionate microparticles, engineered to provide controlled, localized drug release at a consistent rate.

Olt presents the potential to locally address esophageal inflammation³

METHODS

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

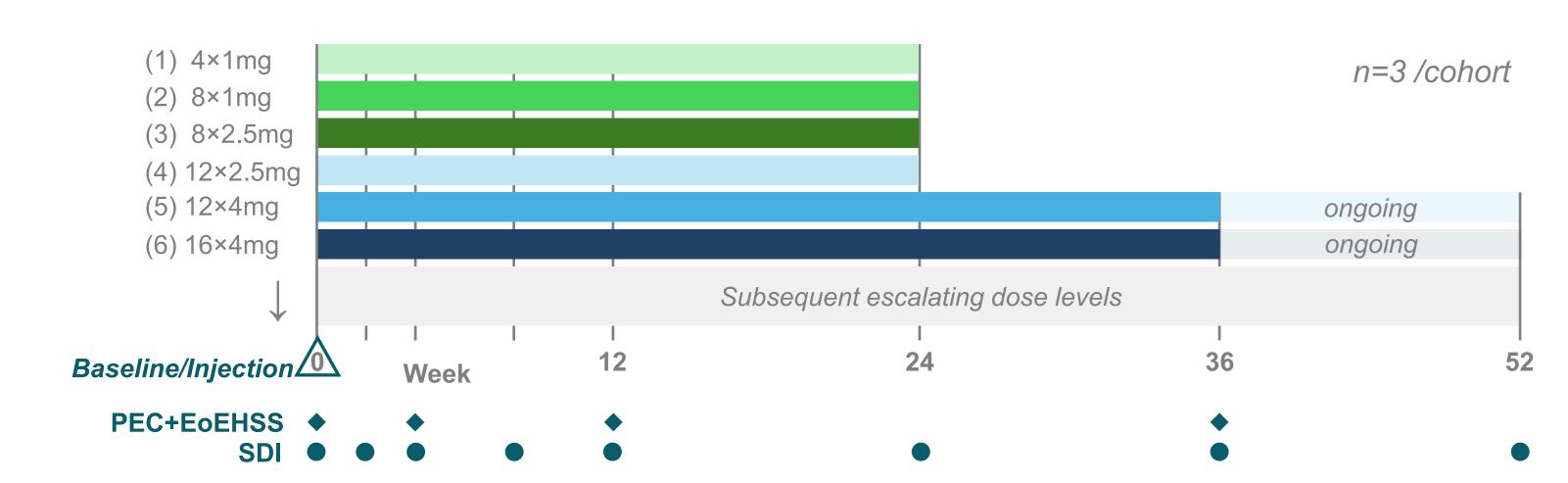


Figure 1. RESOLVE-I Dose Escalation Study Design

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

REFERENCES

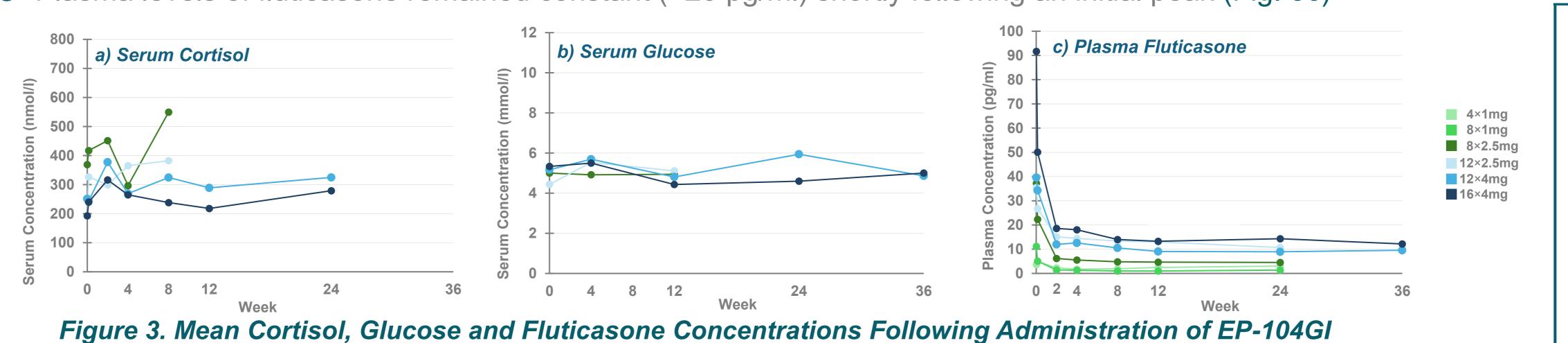
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RESULTS

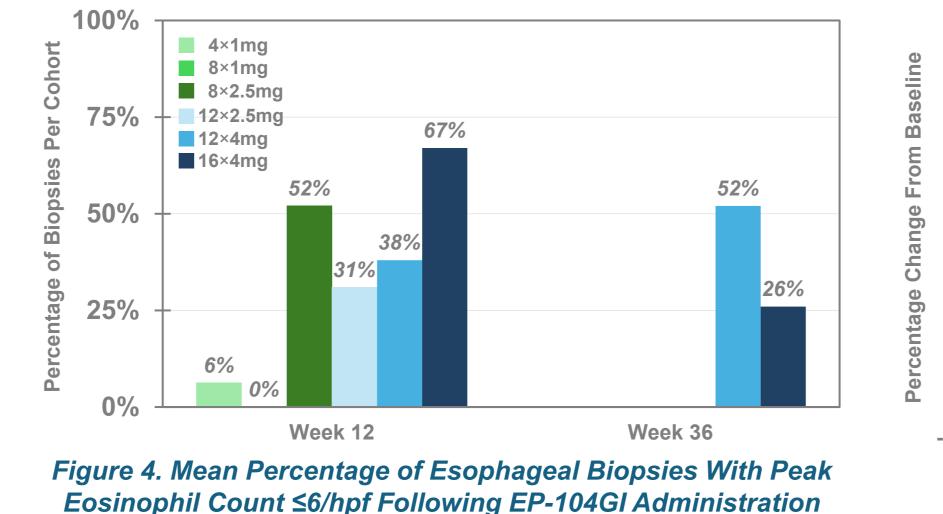
Pharmacokinetics & Safety

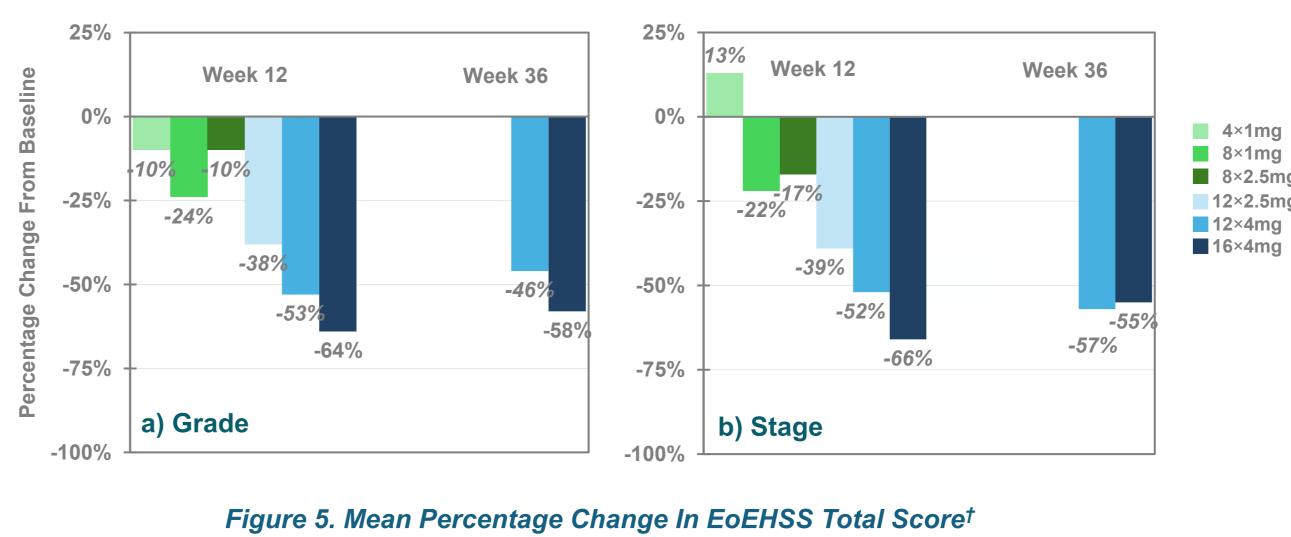
Esophageal Inflammation

- No dose limiting toxicity reported to date: no serious treatment-emergent adverse events of GI or oral candidiasis, or cases of adrenal suppression were reported
- O TEAEs related to EP-104GI administration for doses reported included esophageal sensitivity, pressure sensation, chest pain, nausea, throat tightness
- O Serum concentrations of cortisol and glucose were stable following EP-104Gl administration (Fig. 3a/b)
- O Plasma levels of fluticasone remained constant (<20 pg/ml) shortly following an initial peak (Fig. 3c)



- Eosinophil counts and histologic severity show an escalating response for increasing doses (Tab 1)
- Week 36: Improvements >25% in Biopsies With Peak Eosinophil Count (PEC) ≤6/hpf (Fig. 4)
- O Week 36: Improvements >45% in EoE Histology Scoring System (EoEHSS) grade and stage (Fig. 5)





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 (SDI) $\ge 3^4$ (Fig. 6)
- Week 36: Doses of 12×4mg and 16×4mg maintained mean improvements >2.5 (Fig. 6)

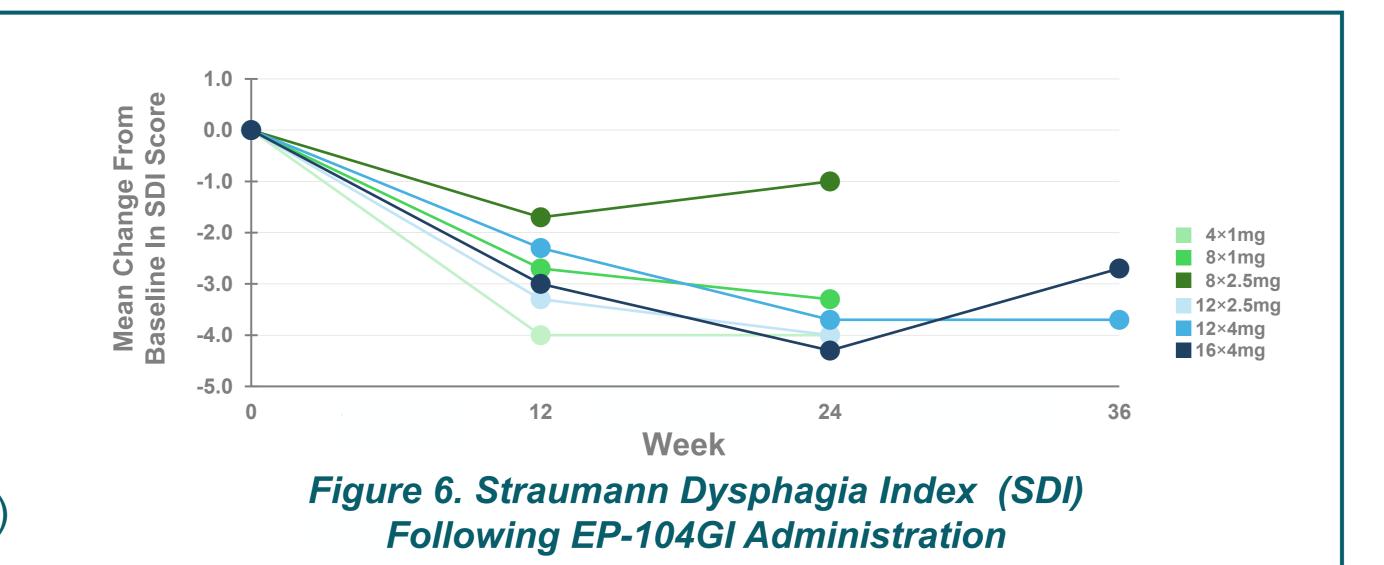


Table 1: Histological and Symptom Responses to EP-104GI

Cohort No.	(1)	(2)	(3)	(4)	(5)	(6)
Sites X Dose	4×1 mg	8×1 mg	8×2.5 mg	12×2.5 mg	12×4 mg	16×4 mg
Total Dose	4 mg	8 mg	20 mg	30 mg	48 mg	64 mg
Percentage Change	From Baselii	ne In Compos	site [‡] EoE His	tology Scorin	ng System (gr	rade/stage)
Week 12	-10% / 13%	-24% / -22%	-7% / -15%	-37% / -39%	-54% / -54%	-65% / -66%
Week 36	-	-	-	-	-45% / -56%	-58% / -55%
Percentage of biops	y sites with F	Peak Eosinop	hil Count ≤6	eosinophil/h	pf	
Week 12	6%	0%	52%	31%	38%	67%
Week 36	-	-	-	-	52%	26%
Percentage of biops	y sites with F	Peak Eosinop	hil Count <1	15 eosinophil/	/hpf	-
Week 12	9%	8%	38%	38%	48%	81%
Week 36	-	-	-	-	60%	34%
Percentage Change	From Baselii	ne In Strauma	ann Dysphag	iia Index		-
Week 12	-75%	-40%	-28%	-45%	-41%	-47%
Week 24	-75%	-50%	-17%	-55%	-65%	-68%
Week 36	-	-	-	-	-65%	-42%
t calculated by summing al	ll individual items	and dividing by the	he mavimum sco	re for evaluated its	ems (range 0-3)	

† calculated by summing all individual items and dividing by the maximum score for evaluated items (range, 0-3) ‡ calculated by summing the individual available items and dividing by the maximum score for evaluated items (range, 0-1)

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