

BEACON Study

Topline Results

LYR-220-2021-001 A Phase II, Patient-blinded, Two-part, Randomized, Parallel-group Trial to Evaluate the Safety, Tolerability, Pharmacokinetics, and Efficacy of LYR-220 in Chronic Rhinosinusitis (CRS) Patients Who Have Had a Prior Ethmoidectomy

https://clinicaltrials.gov/study/NCT05035654

September 12, 2023



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LYR-210 and LYR-220 are Designed to Address the Full Spectrum of CRS Patients

Topline results now available for the LYR-220 Phase 2 BEACON study

Candidate	CRS Patient Type	Phase 2	Phase 3
LYR-210 Long-acting Mometasone Furoate	Chronic Rhinosinusitis Patients with Surgically-Naïve Anatom ENLIGHTEN Phase 3 Program	y	
LYR-220 Long-acting Mometasone Furoate	Chronic Rhinosinusitis Patients with Post-Surgical Anatomy BEACON Phase 2 Trial		

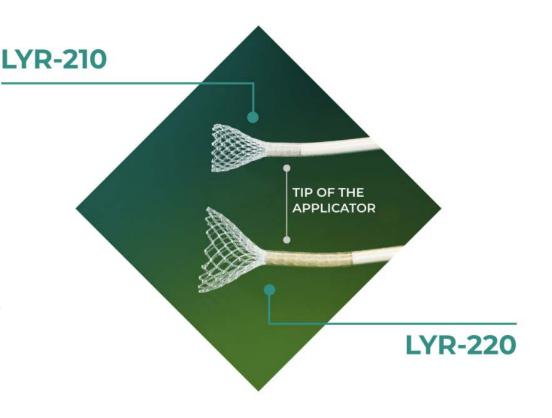


LYR-220 for CRS Patients who have Undergone Prior Sinus Surgery but have Persistent Symptoms

 LYR-220 is an enlarged version of LYR-210 to accommodate post-surgical anatomy

• LYR-220 is designed to provide **24 weeks** of mometasone furoate therapy directly to the site of disease

 LYR-220 dosage of mometasone furoate (7500 mcg) is the same dose being studied in the ongoing LYR-210 Phase 3 (ENLIGHTEN)





LYR-220 is being Developed to Address a Significant Proportion of the CRS Population



Current Treatments:

- Medical Management
 - Saline rinses, topical nasal steroids, oral steroids
- Surgery
 - ~400K sinus surgeries annually¹

CRS in the United States Annually

R CRS patients **treated**²

∼4 CRS patients **failing medical** management³

~1.4M CRS patients currently presenting to an ENT⁴

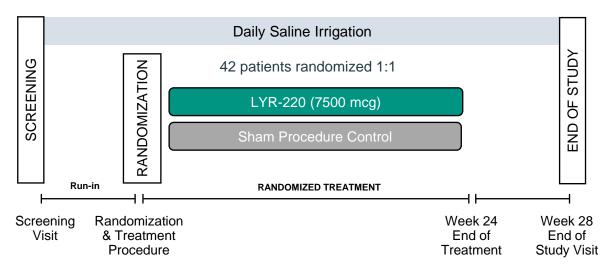
40% of patients that present to an ENT have had a prior sinus surgery⁵



BEACON: Phase 2 Clinical Study of LYR-220

- CRS patients who have had a prior bilateral ethmoidectomy
- Randomized, blinded, sham-controlled proof of concept study to assess safety and efficacy of LYR-220*
- Safety endpoint:
 - Serious adverse events
- Key efficacy endpoints:
 - 3 cardinal symptoms (3CS)** scores
 - SNOT-22 scores

BEACON Study Design



Note: Primary outcome measure was product-related serious adverse events



^{*}Preceded by feasibility phase to choose matrix design

^{**3} cardinal symptoms are defined as nasal blockage / obstruction, facial pain / pressure, and nasal discharge

BEACON: Patient Demographics and Baseline Characteristics

	LYR-220	Sham	Total
	(n=21)	(n=21)	(n=42)
Age in years (mean, SD)	48 (12.51)	55 (11.29)	51 (12.35)
Sex (n, %) Male Female	7 (33.3)	10 (47.6)	17 (40.5)
	14 (66.7)	11 (52.4)	25 (59.5)
Race (n, %) White Black or African American	20 (95.2)	18 (85.7)	38 (90.5)
	1 (4.8)	2 (9.5)	3 (7.1)
Baseline SNOT-22 Total Score (mean, SD)	56.1 (17.16)	50.0 (16.65)	53.1 (16.9)
Baseline 3CS Score (mean, SD)	6.4 (1.47)	6.8 (1.65)	6.6 (1.56)

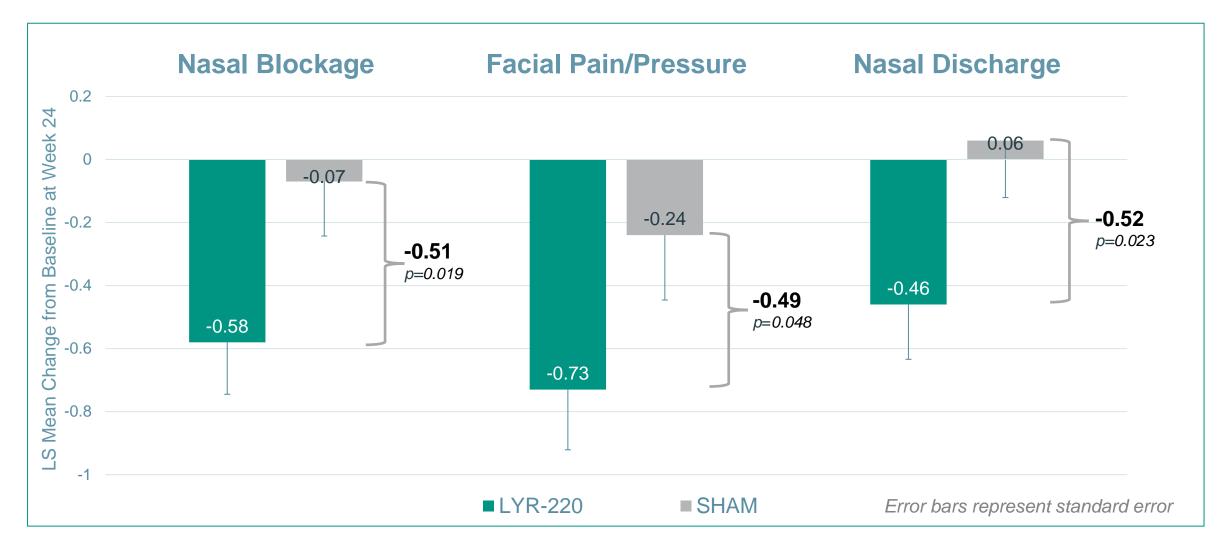


BEACON Efficacy Results: Statistically Significant Improvement in 3CS Composite Score



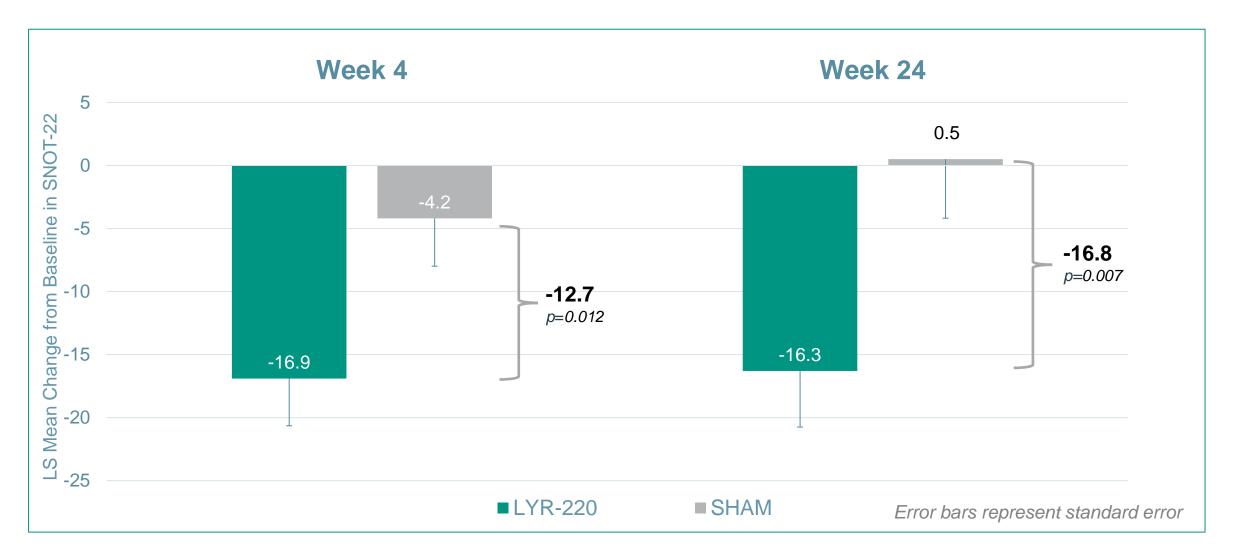


BEACON Efficacy Results: Statistically Significant Improvements in Individual CS at Week 24





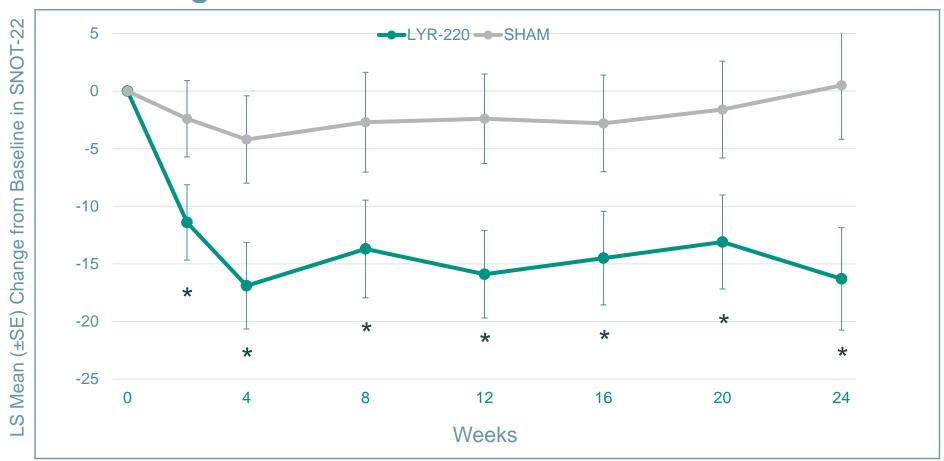
BEACON Efficacy Results: Statistically Significant Improvement in SNOT-22 Score





BEACON Efficacy Results: Early and Sustained Improvement in SNOT-22 Score

Change from baseline in SNOT-22 total score





BEACON Study Summary

No SAEs and statistically significant, clinically relevant improvements in key efficacy endpoints

- No serious adverse events observed. Most commonly observed adverse events included sinusitis, nasopharyngitis, bronchitis, and COVID-19
- Statistically significant improvement in a composite of the 3 cardinal symptoms of CRS (nasal obstruction, nasal discharge, facial pain/pressure) at week 24 (-1.50; p=0.02)
 - Statistically significant improvement for each individual cardinal symptom at week 24
- Statistically significant improvements in Sino-Nasal Outcome Test (SNOT-22) score compared to sham control at week 24 (-16.8; p=0.007)
- Statistically significant improvement in a composite of the 3 cardinal symptoms of CRS (nasal obstruction, nasal discharge, facial pain/pressure) as early as week 4 (-0.87; p=0.037)
- Statistically significant improvements in SNOT-22 were observed as early as week 2 (-9.0; p=0.031)
- Improvements in SNOT-22 were sustained throughout the study and clinically meaningful with almost twice the minimal clinically important difference observed at week 24 compared to sham (-16.8 points)





