## **Ozanimod in UC**

- First S1P therapy FDA-approved for UC<sup>1</sup>; phase 3 trial for CD underway<sup>2</sup>
  - S1P modulators block lymphocytes from entering circulation; anti-inflammatory<sup>3</sup>
  - Ozanimod selective for S1P<sub>1,5</sub> receptors<sup>3</sup>

<b>10-WEEK INDUCTION PHASE<sup>3</sup></b>				
Endpoints	Ozanimod* (1 mg/day; oral) (n = 429)	Placebo (n = 216)		
Clinical Remission (Primary)	18.4%	6.0%		
Clinical Response	47.8%	25.9%		
Endoscopic Improvement	27.3%	21.1%		
Histologic-Endoscopic Mucosal Healing	12.6%	3.7%		

MAINTENANCE PHASE WEEKS 10-52 <sup>3</sup>					
Endpoints	Ozanimod* (1 mg/day; oral) (n = 230)	Placebo (n = 227)			
Clinical Remission (Primary)	37.0%	18.5%			
Clinical Response	60.0%	41.0%			
Endoscopic Improvement	45.7%	26.4%			
Histologic-Endoscopic Mucosal Healing	29.6%	14.1%			
Maintenance of Remission	52.0%	29.0%			
Glucocorticoid-free Remission	31.7%	16.7%			
Durable Remission	17.8%	9.7%			

\*Significant difference between ozanimod and placebo groups,  $P \leq 0.003$  for all endpoints.

S1P, sphingosine -1-phosphate.

1. ZEPOSIA<sup>®</sup> (ozanimod). Prescribing information. Bristol-Myers Squibb Company; 2023; 2. Clinicaltrials.gov. NCT03464097; 3. Sandborn WJ, et al. N Engl J Med. 2021;385(14):1280-91.

## **Etrasimod in UC**

UPDATE: Approved by FDA for UC October 13, 2023.

- Selective for S1P<sub>1,4,5</sub> receptors
- Results from 2 trials: Elevate 12 and Elevate 52 in UC
  - Unique "treat-through" design: all patients in induction phase remain blinded and continue through maintenance phase, regardless of response to drug at week 12

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Efficacy Endpoints	Elevate 12			Elevate 52				
	Week 12		Week 52		Week 12		Week 52	
	Etrasimod* (2 mg, n = 238)	Placebo (n = 116)	Etrasimod* (2 mg, n = 238)	Placebo (n = 116)	Etrasimod <sup>†</sup> (2 mg, n = 289)	Placebo (n = 144)	Etrasimod <sup>†</sup> (2 mg, n = 289)	Placebo (n = 144)
Clinical remission (primary)	26%	15%			28%	8%	33%	8%
Endoscopic improvement			33%	19%	37%	17%	39%	13%
Symptomatic remission			48%	29%	46%	22%	44%	19%
Endoscopic improvement – histological remission			17%	9%	23%	6%	27%	10%

\**P* ≤ 0.003 for all endpoints for Elevate 12. <sup>†</sup>*P* ≤ 0.0001 for all endpoints for Elevate 52. S1P, sphingosine -1-phosphate. Sandborn WJ, et al. *Lancet*. 2023;401(10383):1159-71.

## **S1P Receptor Modulators Ozanimod and Etrasimod in UC — Safety**

## 42-WEEK OZANIMOD MAINTENANCE PERIOD<sup>1</sup>

Safety Endpoints	Ozanimod (n = 230)	Placebo (n = 227)	
Serious adverse events	5.2%	7.9%	
Discontinuation due to adverse event	1.3%	2.6%	
Serious infection	0.9%	1.8%	
Hypertension	1.7%	1.3%	
Hypertensive crisis	0.4%	0.4%	
Macular edema	0	0.4%	
Absolute lymphocyte count			
<200 cells per mm <sup>3</sup>	0	2.2%	
<500 cells per mm <sup>3</sup>	43.5%	1.8%	
Elevated alanine aminotransferase			
≥ 2x ULN	13.9%	5.3%	
≥ 3x ULN	3.0%	1.8%	
≥ 5x ULN	0.9%	0.4%	

52-WEEK ETRASIMOD TRIALS <sup>2</sup>						
Safety Endpoints	ELEVATE	UC 12	ELEVATE UC 52			
	Etrasimod (n = 238)	Placebo (n = 116)	Etrasimod (n = 289)	Placebo (n = 144)		
Serious adverse events	3%	2%	7%	6%		
Discontinuation due to adverse event	5%	1%	4%	5%		
Serious infections	0	0	3%	4%		
Hypertension	1%	1%	3%	1%		
Sinus bradycardia	2%	0	0	0		
Bradycardia	1%	0	1%	0		
Atrioventricular block, 1 <sup>st</sup> deg.	<1%	0	<1%	0		
Atrioventricular block, 2 <sup>nd</sup> deg.	0	0	<1%	0		
Macular edema	<1%	<1%	<1%	0		

• Low levels of cancer, serious and opportunistic infections, and macular edema<sup>1,2</sup>

- Almost 50% have reduced lymphocyte levels<sup>1,2</sup>
- Liver dysfunction in ozanimod group<sup>1</sup>
- Cardiac heart rate or conduction aberrations associated with first dose<sup>1,2</sup>

ULN, upper limit of normal.

1. Sandborn WJ, et al. N Engl J Med. 2021;385(14):1280-91; 2. Sandborn WJ, et al. Lancet. 2023;401(10383):1159-71.