

CBD (N=79)

49 (62.0)

34 (43.0)

11 (13.9)

6 (7.6)

n (%)

19 (24.1)

18 (22.8)

13 (16.5)

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Introduction

Approximately 90% of people with tuberous sclerosis complex (TSC) experience TSC-associated neuropsychiatric disorders (TAND; Figure 1), which substantially impact their quality of life. However, treatment options remain limited 1,2

A plant-derived, highly purified pharmaceutical formulation of cannabidiol (CBD; Epidiolex® [US]/ Epidyolex® [EU]) is approved for the treatment of seizures associated

- Anecdotal reports from the TSC community of patients, caregivers, and healthcare professionals have suggested benefits with CBD treatment in behavioral (eg, calm
- or relaxed behavior) and neuropsychological symptoms (eg, increased attention span, awareness, and concentration)⁵ EpiCom (Epilepsy Comorbidities; NCT05864846) is an interventional, multicenter, open-label, single-arm, phase 3b/4 study evaluating behavioral and other
- co-occurring outcomes following adjunctive CBD treatment in participants with TSC-associated seizures⁵

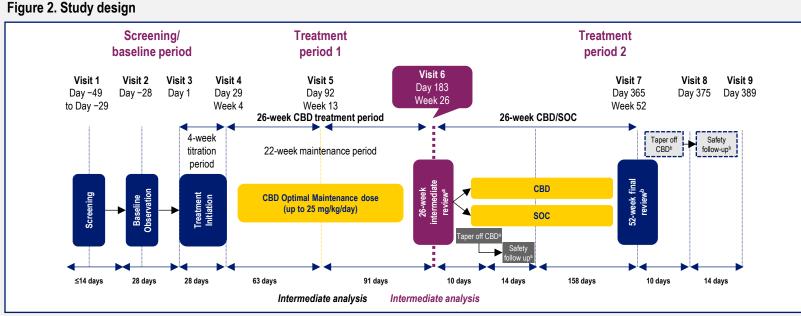


Objective

To investigate behavioral and other co-occurring outcomes after initiation of treatment with adjunctive CBD in patients with TSC-associated seizures. Here, we present the prespecified 6-month intermediate analysis of EpiCom

- Eligible participants aged 1 to 65 years^a with TSC-associated seizures and experiencing moderate/severe behavioral challenges on the Caregiver Global Impression of Severity (CareGI-S) scale were enrolled (Table 1)
- After a screening and baseline period of up to 49 days, participants receive CBD ≤25 mg/kg/day (based on response and tolerability) in addition to standard of care (SOC) for 26 weeks (Treatment period 1) (Figure 2)
- The 26-week CBD treatment period includes a 4-week titration period and 22-week maintenance period
- After 26 weeks on CBD + SOC, participants choose to continue either CBD with SOC or SOC alone for an additional 26 weeks (Treatment period 2)
- This 6-month intermediate analysis includes enrolled participants (n=79) who completed Treatment period 1 (Visit 6) as of April 2025 (n=28) All enrolled participants received ≥1 dose of CBD and were included in the safety analysis set
- ≥1 postbaseline assessment was available for 62 participants, who were included in the full analysis set
- Key endpoints evaluated at the 26-week intermediate analysis were:
- MPB, TAND-SQ, Aberrant Behavior Checklist (ABC), CareGI-S, Clinician Global Impression of Severity (CGI-S), Child and Adult Behavior Checklist (CBCL/ABCL), seizure outcomes, treatment-emergent adverse events (TEAEs), and serious adverse events (SAEs) Data were analyzed using standard descriptive statistics for continuous variables, including 95% CI for mean and median changes
- The EpiCom study was conducted with Epidiolex®/Epidyolex®, and results do not apply to other CBD-containing products, which are not FDA approved for the

^aEligible participants were aged 2-65 years in the United Kingdom, Canada, and Poland.



^aParticipants who decide to discontinue CBD after the 26-week intermediate review visit but remain on study will form the SOC treatment arm. These participants will taper off CBD and complete a safety follow-up. ^bParticipants who decide to discontinue CBD after the 52-week final review visit will taper off CBD and complete a safety follow-up. For participants who wish to remain on CBD after the study, the 52-week final review visit is the last study visit.

Table 1. Key inclusion and exclusion criteria

Inclusion Criteria

Confirmed diagnosis of TSC with a history of seizures Moderate/severe behavioral challenges (eg, aggression, impulsivity temper tantrums, self-injury, and hyperactivity), with a most problematic

^aBased on the Likert scale: 1 = Very unimportant; 5 = Neither important nor unimportant; and 10 = Extremely important.

CBD, cannabidiol; TAND, TSC-associated neuropsychiatric disorders; TAND-SQ, TAND Self-Report, Quantified Checklist; TSC, tuberous sclerosis complex.

On ≥1 antiseizure medication Naive to CBD or has been off CBD for ≥3 months before screening

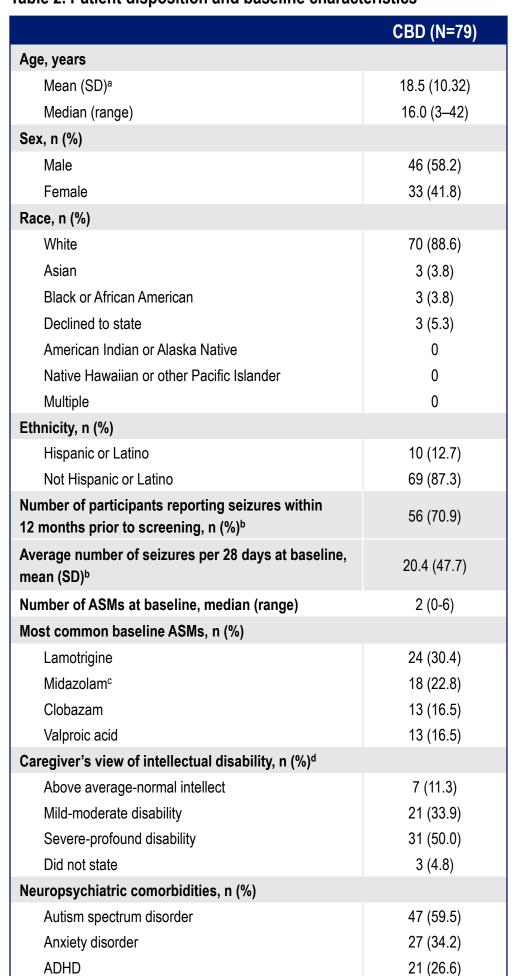
behavior score of ≥6 on the TAND-SQ at baseline^a

Exclusion Criteria

- Any medical condition that could affect study outcomes Felbamate initiation within the year before screening Use of cannabis or cannabinoid-based products within the 3 months
- Significant hepatic impairment and any history of suicidal behavior or
- ideation of type 4 or 5 as evaluated by the Columbia-Suicide Severity

Results

Table 2. Patient disposition and baseline characteristics



an=37 were adults (≥18 years). Considers participants with any seizure type recorded within 12 months of screening; All participants had a history of seizure(s) but were not necessarily experiencing seizure(s) at the start of the study. The average number of seizures per 28 days at baseline is calculated from seizure diary records. Rescue medication. dn=62. ADHD, attention-deficit/hyperactivity disorder; ASMs, antiseizure

Other psychiatric disorder(s)

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Psychotic disorders, including schizophrenia

11 (13.9)

8 (10.1)

4 (5.1)

1 (1.3)

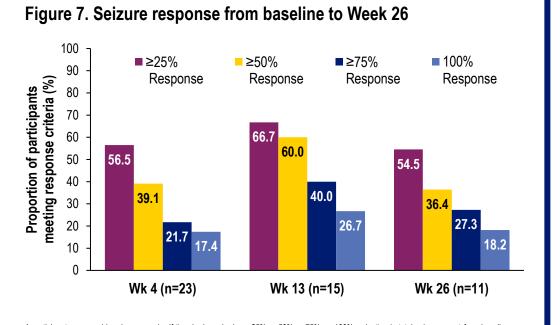
- At the time of this analysis, 79 participants were enrolled; 39 had completed Week 13 and 28 were eligible for Week 26 analysis. 10 participants had discontinued
- Median (range) age was 16.0 (3-42) years, and 2.0 (0-6) antiseizure medications were being used at baseline (**Table 2**)
- The most common concomitant antiseizure medications being used were lamotrigine (n=24 [30%]), midazolam (n=18 [23%]), clobazam (n=13 [17%]), and valproic acid (n=13 [17%])
- Half of the caregivers (50%) characterized their participants as having severe to profound intellectual disability, while a third of them (34%) reported mild to moderate disability
- The majority of participants reported ≥1 neuropsychiatric comorbidity at baseline, most commonly autism spectrum disorder (60%), anxiety disorder (34%), and ADHD (27%)

Figu	re 3. Chang	e fron	n ba	seli	ne ir	Mo	st F	Problen	natio	c Beha	vior (M	IPB)
					M	IPB ^a	NRS	value on Range (0-		TAND-S	Q	
	Extreme proble the past mor		•	10]				Nange (o-	10)			
				8 -	ę	0.0						
	Improvement		Median score	6 -				7.0		7.0		
	Impro	:	Media	4 -								
	•			2 -								
	Not a proble	m	•			=60		n=29		n=23	_	
						₽ ^{gsgill}	, re	11881/3	``	Neex		

	Baseline ^b , median, n=60	Change from baseline at Week 13, median (95% CI)°, n=29	Change from baseline at Week 26, median (95% CI) ^c , n=23
MPB ^a NRS value on TAND-SQ	9.0	-2.0 (-4.0, -1.0)	-2.0 (-3.0,-1.0)

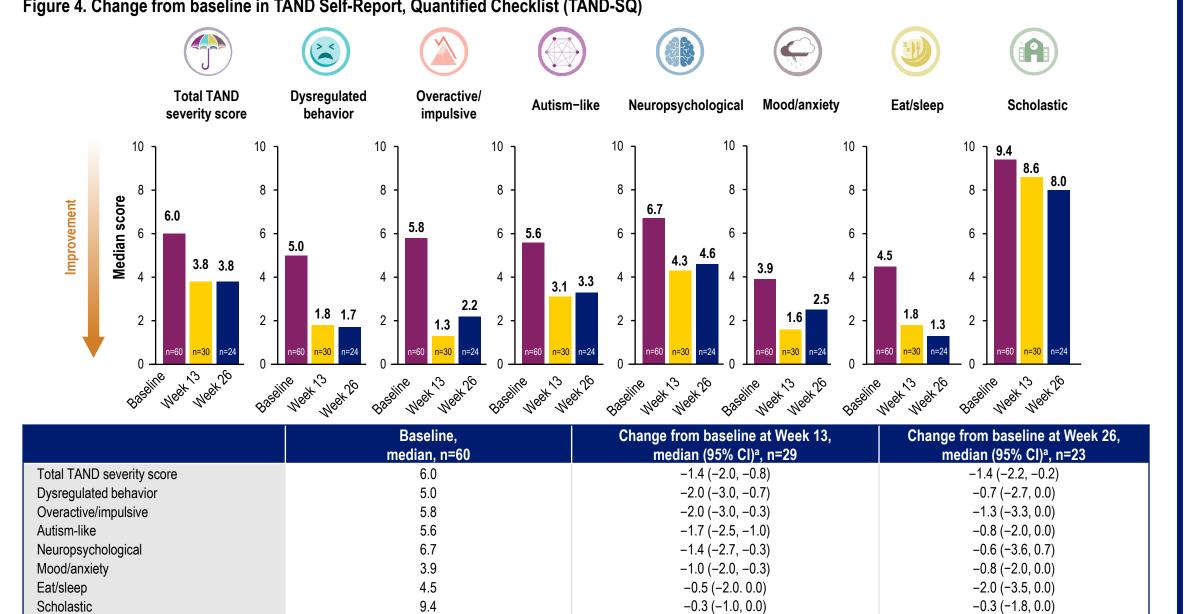
troublesome for the participant based on the TAND-SQ checklist. Behaviors are scored 0-10 (0 = not a problem: 10 = extreme problem in the past month). bAt baseline, prospective participants must have had a MPB score of ≥6 (at least a moderate behavioral problem) on TAND-SQ to be eligible, 95% CI for the median change from baseline was calculated using the distribution-free method. MPB, most problematic behavior; NRS, numerical rating scale; TAND, tuberous sclerosis complex-associated neuropsychiatric disorders; TAND-SQ, TAND Self-Report, Quantified Checklist

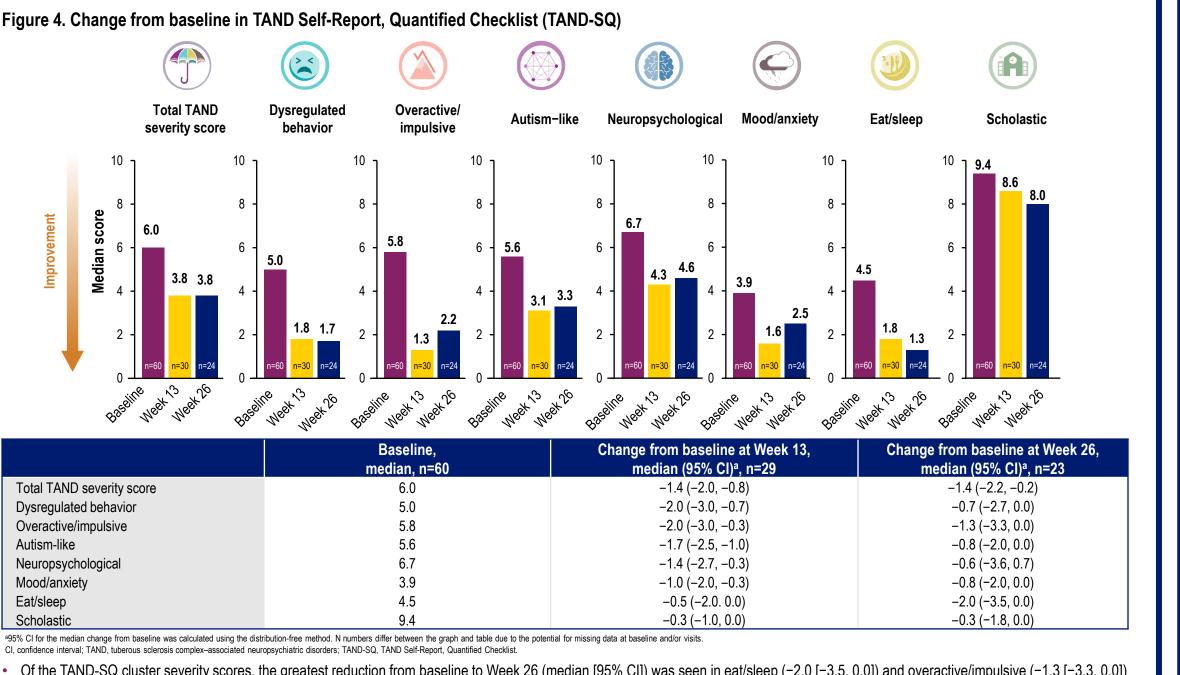
- At baseline (n=60), the median MPB numerical rating scale (NRS) value was 9.0, suggesting severe TAND problems; aggressive outbursts (23%) and anxiety (11%) were the most identified MPBs at baseline
- At Week 26 (n=23), median (95% CI) change from baseline in MPB NRS was −2.0 (−3.0, −1.0), suggesting an improvement in behavioral outcomes from baseline (Figure 3)



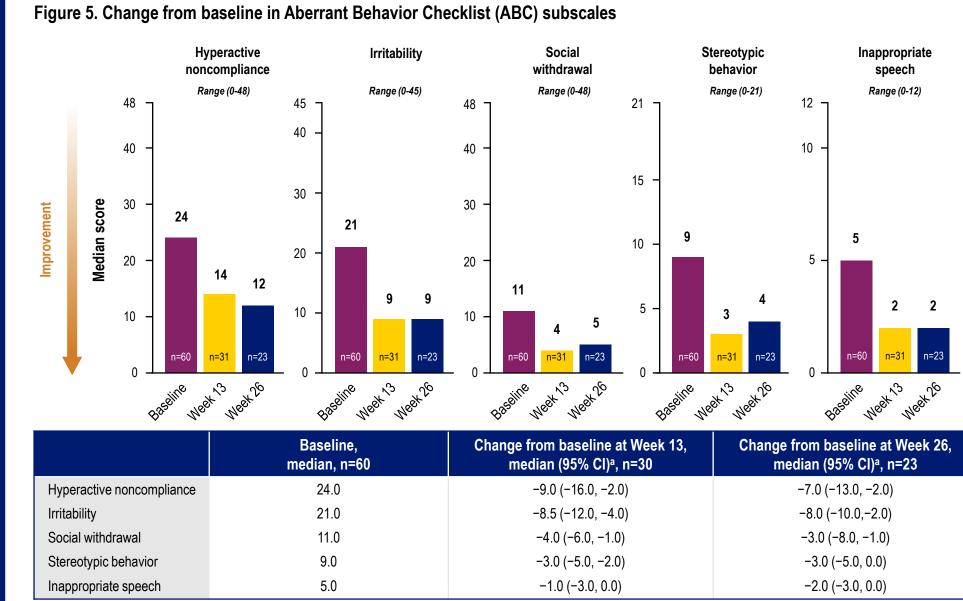
A participant was considered a responder if they had reached a ≥ 25%, ≥ 50%, ≥ 75%, or 100% reduction in total seizure count from baseline Participants who were not experiencing seizures at baseline were removed; 38/61 at Wk 4, 24/39 at Wk 13, and 14/25 at Wk 26. Wk, week.

- Over half of the participants experiencing seizures at baseline (60%) achieved a ≥50% reduction in total seizure count at Week 13, and more than a third (36%) achieved this threshold at Week 26
- 67% of the participants experiencing seizures at baseline achieved ≥25% reduction in total seizure count from baseline at Week 13, as did 55% at Week 26 (Figure 7)





Of the TAND-SQ cluster severity scores, the greatest reduction from baseline to Week 26 (median [95% CI]) was seen in eat/sleep (-2.0 [-3.5, 0.0]) and overactive/impulsive (-1.3 [-3.3, 0.0]) scores (Figure 4) igure 6. Caregiver (CareGI-S) and Clinician (CGI-S) Global Impression of Severity in problems with behavior-Table 3. Safety outcomes ■ None ■ Mild ■ Moderate ■ Severe ■ Very Severe Baseline (n=61)



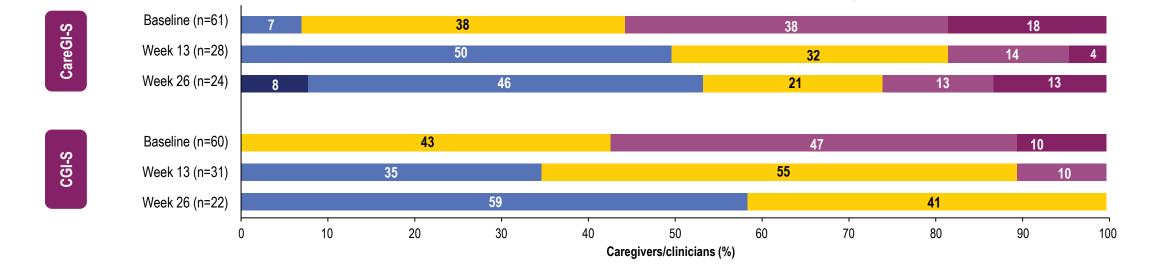
^a95% CI for the median change from baseline was calculated using the distribution-free method. N numbers differ between the graph and table due to the potential for missing data at baseline and/or visits.

scontinued - 1 due to suicidal ideation and 1 due to hypokalemia (n=1). 1 patient had their CBD dose reduced due to hypernatremia. All events were resolved

TEAEs occurred in 49 (62.0%) participants, most commonly diarrhea, infections, and psychiatric disorders (Table 3)

Serious TEAEs were reported in 6 (7.6%) participants; 4 AEs in 3 participants were considered treatment-related (resolved)

Among the ABC subscales, the greatest reduction from baseline to Week 26 was seen in irritability (-8.0 [-10.0, -2.0]) and hyperactive noncompliance (-7.0 [-13.0, -2.0]) scores (**Figure 5**)



Compared with baseline, smaller proportions of caregivers and clinicians rated behavioral problems as severe/very severe at Weeks 13 and 26, respectively (Figure 6)

Change from baseline in Child Behavior Checklist (CBCL)^a at Week 26

- At Week 26, improvements in scores from baseline were seen across several problem scales of the CBCL (Table S1)
- Among children attending school, the greatest improvement in score was seen in Aggressive Behavior syndrome scale (median [95% CI] -6.0 [-8.0, 3.0]) CBCL is used for participants aged between ≥6 and ≤17 years. Higher score is indicative of a greater problem.

Change from baseline in Adult Behavior Checklist (ABCL)^b at Week 26

- At Week 26, improvements in scores from baseline were observed across most problem scales of the ABCL (**Table S2**)
- Among adults, the greatest improvement in scores were seen in Rule-breaking Behavior (median [95% CI] -3.0 [-6.0, 1.0]) and Other Problems^c syndrome scale (median [95% CI] -3.0 [-7.0, 2.0]) ABCL is used for participants aged between ≥18 and ≤59 years. Higher score is indicative of a greater problem. Includes clinically relevant items that don't fit into the other defined syndrome scales such as (but not limited to) sleep disturbances, unusual thought patterns, repetitive behaviors, and emotional dysregulation.

Conclusions

- In this intermediate analysis, reductions in behavioral outcomes scores as measured on the TAND-SQ, ABC, CBCL, and ABCL were reported after 26 weeks of CBD initiation
- Additionally, reduction in severity of behavioral outcomes as measured on the CareGI-S and CGI-S scales were reported by caregivers and clinicians after 26 weeks

Participants with ≥1:

Related TEAEs

Serious TEAEsb

Psychiatric disorders

Infections

TEAEs leading to CBD discontinuation^a

TEAEs occurring in >15% of participants

AEs, adverse events: CBD, cannabidiol: TEAEs, treatment-emergent adverse events.

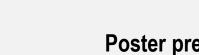
At the time of this intermediate data analysis, the probability of participants remaining on CBD treatment at Week 26 was 86%; only 1 participant transitioned to SOC after 26 weeks of CBD treatment

Some patients may have had ≥1 TEAEs leading to CBD discontinuation. ^bSerious TEAEs that were considered treatment-related included hypernatremia and seizures (in the same patient), and suicidal ideation and hypokalemia in 1 patient each. 2 out of 3 patients

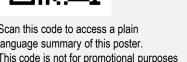
Limitations

This is an intermediate analysis of an open-label study that did not include a control group. Observed improvements may be confounded by potential regression to the mean, particularly given the smaller Week 26 sample size

 Safety profile was consistent with previous studies Participants currently enrolled in the study are continuing treatment through 52 weeks; final results are expected late in 2026

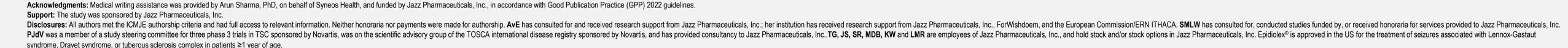






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References: 1. Vanclooster S, et al. J Neurodev Disord. 2022;14(1):13. 2. de Vries PJ, et al. J Neurodev Disord. 2022;14(1):13. 2. de Vries PJ, et al. J Neurodev Disord. 2023;15(1):32. 3. US Food and Drug Administration. Epidiolex® Prescribing Information. 2025. Available from: https://www.accessdata.fda.gov/drugsatfda_docs/label/2025/210365s023lbl.pdf. (Accessed September 25, 2025.) 4. Epidyolex® 100 mg/ml oral solution: summary of product characteristics. https://www.accessdata.fda.gov/drugsatfda_docs/label/2025/210365s023lbl.pdf. (Accessed September 25, 2025.) 4. Epidyolex® Prescribing Information. 2025. Available from: https://www.accessdata.fda.gov/drugsatfda_docs/label/2025/210365s023lbl.pdf. (Accessed September 25, 2025.) 4. Epidyolex® 100 mg/ml oral solution: summary of product characteristics. https://www.accessdata.fda.gov/drugsatfda_docs/label/2025/210365s023lbl.pdf. (Accessed September 25, 2025.) 4. Epidyolex® 100 mg/ml oral solution: summary of product characteristics. https://www.accessdata.fda.gov/drugsatfda_docs/label/2025/210365s023lbl.pdf. (Accessed September 25, 2025.) 4. Epidyolex® 100 mg/ml oral solution: summary of product characteristics. https://www.accessdata.fda.gov/drugsatfda_docs/label/2025/210365s023lbl.pdf. (Accessed September 25, 2025.) 4. Epidyolex® 100 mg/ml oral solution: summary of product characteristics. https://www.accessdata.fda.gov/drugsatfda_docs/label/2025/210365s023lbl.pdf. (Accessed September 25, 2025.) 4. Epidyolex® 100 mg/ml oral solution: summary of product characteristics. https://www.accessdata.fda.gov/drugsatfda_docs/label/2025/210365s023lbl.pdf. (Accessed September 25, 2025.) 4. Epidyolex® 100 mg/ml oral solution: summary of product characteristics. https://www.accessdata.fda.gov/drugsatfda_docs/label/2025/210365s023lbl.pdf. (Accessed September 25, 2025.) 4. Epidyolex® 100 mg/ml oral solution: summary of product characteristics. https://www.accessdata.fda.gov/drugsatfda_docs/label/2025/210365s023lbl.pdf. (Accessed September 25, 2025) 4. Epidyolex® 100 mg/ml ora



Supplementary Material

Table S1. Change from baseline in Child Behavior Checklist (CBCL) at Week 26

Problem scale	Problem scale Syndrome scale		Week 26 (n=7), median	Change from baseline at Week 26 (n=7), median (95% CI) ^a	
	Anxious/Depressed	5.0	2.0	-2.0 (-4.0, 5.0)	
Internalizing	Withdrawn/Depressed	3.0	1.0	-1.0 (-4.0, 4.0)	
	Somatic Complaints	2.0	2.0	0.0 (-4.0, 3.0)	
	Total	9.5	10.0	-4.0 (-10.0, 6.0)	
	Aggressive Behavior	14.5	10.0	-6.0 (-8.0, 3.0)	
Externalizing	Rule-breaking Behavior	3.0	1.0	-1.0 (-3.0, 2.0)	
	Total	18.0	11.0	-8.0 (-9.0, 5.0)	
	Social Problems	8.0	4.0	-2.0 (-3.0, 4.0)	
	Thought Problems	7.0	4.0	1.0 (-4.0, 7.0)	
Other	Attention Problems	11.5	7.0	-2.0 (-6.0, 9.0)	
	Other Problems	7.0	7.0	-1.0 (-5.0, 5.0)	
	Other Total	36.0	21.0	-10.0 (-13.0, 25.0)	
Total	Total	64.5	41.0	-12.0 (-31.0, 35.0)	

CBCL is used for participants aged between ≥6 and ≤17 years. Higher score is indicative of a greater problem. a95% CI for the median change from baseline is calculated using the distribution-free method. CI, confidence interval.

Table S2. Change from baseline in Adult Behavior Checklist (ABCL) at Week 26

Problem scale	Problem scale Syndrome scale		Week 26 (n=15), median	Change from baseline at Week 26 (n=14), median (95% CI) ^a	
	Anxious/Depressed	4.5	2.0	-2.0 (-3.0, 2.0)	
	Withdrawn	4.5	2.0	-1.0 (-4.0, 0.0)	
Internalizing	Somatic Complaints	2.5	2.0	0.0 (-4.0, 1.0)	
	Total	11.0	6.0	-4.0 (-5.0, -2.0)	
	Aggressive Behavior	11.0	5.0	-2.0 (-5.0, 1.0)	
Extornalizing	Rule-breaking Behavior	7.0	2.0	-3.0 (-6.0, 1.0)	
Externalizing	Intrusive	3.0	2.0	-1.0 (-2.0, 0.0)	
	Total	22.0	8.0	-8.0 (-13.0, 3.0)	
	Thought Problems	5.5	3.0	-1.5 (-4.0, 1.0)	
Other	Attention Problems	10.0	10.0	-1.5 (-3.0, 1.0)	
Other	Other Problems ^b	13.0	10.0	-3.0 (-7.0, 2.0)	
	Other Total	29.0	21.0	-7.0 (-13.0, 3.0)	
Total	Total	68.5	37.0	-15.0 (-28.0, 1.0)	

ABCL is used for participants aged between ≥18 and ≤59 years. Higher score is indicative of a greater problem. a95% CI for the median change from baseline is calculated using the distribution-free method. bIncludes clinically relevant items that don't fit into the other defined syndrome scales such as (but not limited to) sleep disturbances, unusual thought patterns, repetitive behaviors, and emotional dysregulation CI, confidence interval.



