

#### **Global Phase 3 Pivotal Trial Design**





#### **Trial Details**

- Evaluated the use of oral ganaxolone in children and young adults
- Global, double-blind, placebo-controlled, clinical trial enrolled 101 patients between the ages of 2 and 19 with a confirmed disease-related CDKL5 gene variant
- Ages 2-19, ≥16 major motor seizures/month; up to 4 concomitant AEDs

#### **Endpoints**

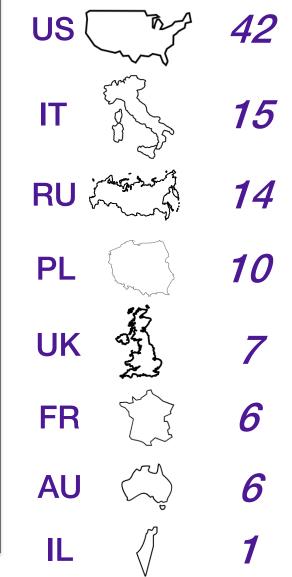
- Primary endpoint of the trial was percent change in 28-day major motor seizure frequency \*
- Non-seizure secondary outcome measures: Behavioral/neuropsychiatric changes correlated with domains of attention
   & sleep

<sup>\*</sup> Major motor seizures were defined as bilateral tonic, generalized tonic-clonic, atonic/drop, bilateral clonic, or focal to bilateral tonic-clonic



## Subject Baseline Demographics & Country Enrollment in CDD Trial

| Demographic            | Placebo (n=51) | Ganaxolone<br>(n=50) | Total<br>(n=101) |
|------------------------|----------------|----------------------|------------------|
|                        |                |                      |                  |
| Age, median            | 7.0            | 5.0                  | 6.0              |
| Gender, n (%)          |                |                      |                  |
| Male                   | 10 (19.6)      | 11 (22.0)            | 21 (20.8)        |
| Female                 | 41 (80.4)      | 39 (78.0)            | 80 (79.2)        |
| Ethnicity, n (%)       |                |                      |                  |
| Hispanic or Latino     | 6 (11.8)       | 4 (8.0)              | 10 (9.9)         |
| Not-Hispanic or Latino | 43 (84.3)      | 44 (88.0)            | 87 (86.1)        |
| Unknown                | 1 (2.0)        | 1 (2.0)              | 2 (2.0)          |
| Not reported           | 1 (2.0)        | 1 (2.0)              | 2 (2.0)          |
| Race, n (%)            |                |                      |                  |
| White                  | 47 (92.2)      | 46 (92.0)            | 93 (92.1)        |
| Asian                  | 3 (5.9)        | 2 (4.0)              | 5 (5.0)          |
| Other                  | 1 (2.0)        | 2 (4.0)              | 3 (3.0)          |





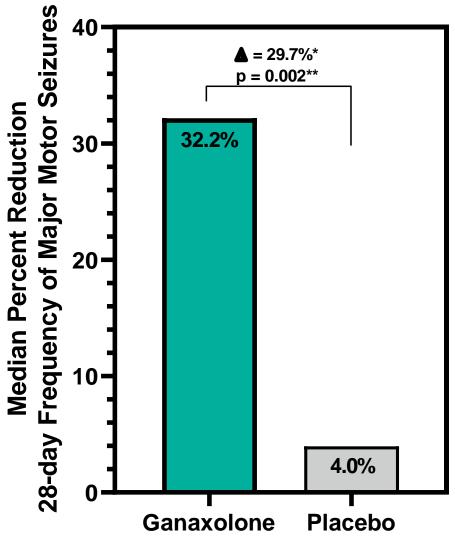
### **Subject Baseline Clinical Characteristics & Prior/Concomitant Medications**

| Characteristic  | Placebo (n=51)        | Ganaxolone<br>(n=50)       | <b>Total</b> (n=101) |
|---|-----------------------|----------------------------|----------------------|
|   |                       |                            |                      |
| Baseline Primary Seizure Frequency, per 28 days (median, min-mix) | 50.0,<br>0.7 – 1021.3 | <b>57.3</b><br>5.5 – 651.3 | -                    |
|   |                       |                            |                      |
| Number of AED Medications Taken Prior (median)                    | 7                     | 7                          | 7                    |
| Concomitant AED Medications, n (%)                                |                       |                            |                      |
| Valproate   | 16 (31.4)             | 18 (36.0)                  | 34 (33.7)            |
| Levetiracetam   | 13 (25.5)             | 13 (26.0)                  | 26 (25.7)            |
| Clobazam  | 13 (25.5)             | 12 (24.0)                  | 25 (24.8)            |
| Vigabatrin  | 12 (23.5)             | 10 (20.0)                  | 22 (21.8)            |

Baseline seizure burden and AED history highlights unmet need

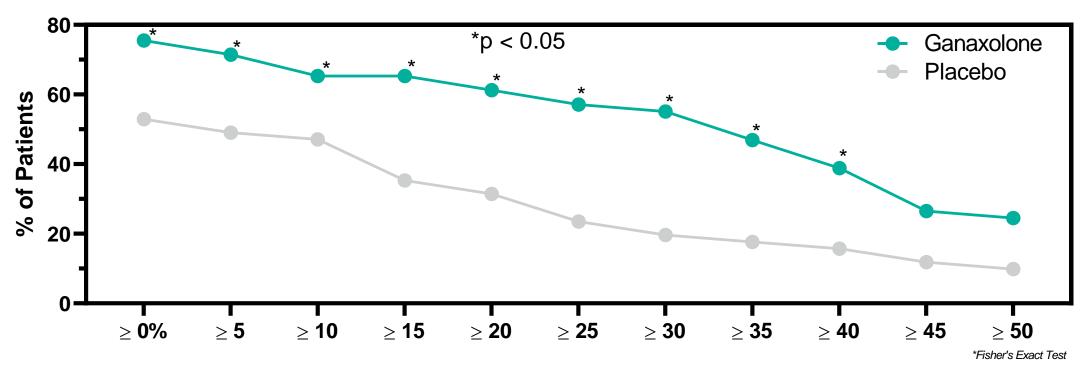


# Ganaxolone Achieves Primary Efficacy Endpoint in the Marigold Study





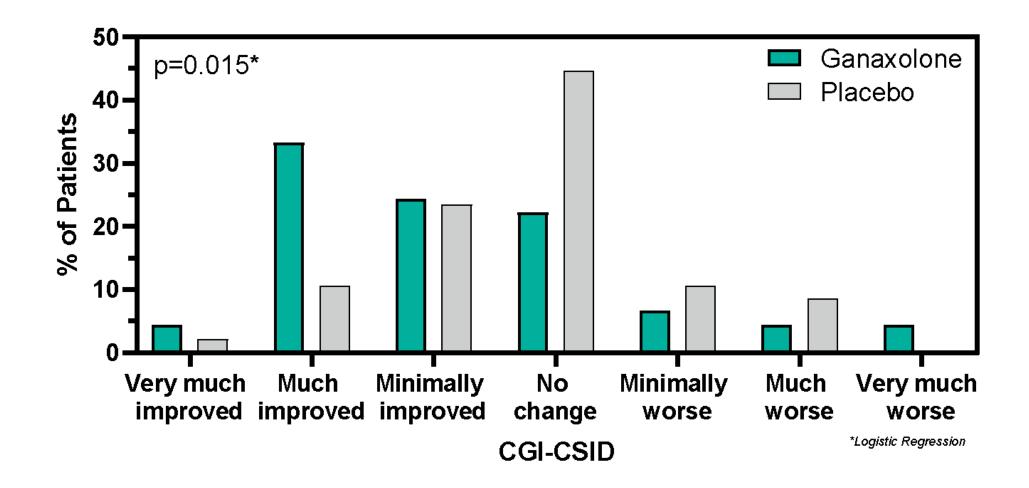
### **Marigold Cumulative Response Curve**



**% Reduction in Major Motor Seizure Frequency** 



#### Caregiver Global Impression of Change in Seizure Intensity/Duration





## **Phase 3 Safety Summary**

#### **Treatment Emergent Adverse Events (TEAE)**

| Preferred Term                    | Placebo (n=51) | Ganaxolone (n=50) |
|-----------------------------------|----------------|-------------------|
|                                   |                |                   |
| Any TEAE, n (%)                   | 45 (88.2)      | 43 (86.0)         |
|                                   |                |                   |
| Somnolence                        | 8 (15.7)       | 18 (36.0)         |
| Pyrexia                           | 4 (7.8)        | 9 (18.0)          |
| Upper Respiratory Tract Infection | 3 (5.9)        | 5 (10.0)          |
| Constipation                      | 3 (5.9)        | 3 (6.0)           |
| Salivary Hypersecretion           | 1 (2.0)        | 3 (6.0)           |
| Sedation                          | 2 (3.9)        | 3 (6.0)           |

Includes AEs that occurred >5% of subjects in ganaxolone arm and ganaxolone > placebo

#### **Serious Treatment Emergent Adverse Events**

| Preferred Term              | Placebo (n=51) | Ganaxolone (n=50) |
|-----------------------------|----------------|-------------------|
|                             |                |                   |
| Any Serious TEAE, n (%)     | 5 (9.8)        | 6 (12.0)          |
|                             |                |                   |
| Bronchitis                  | 0 (0.0)        | 1 (2.0)           |
| Rhinovirus Infection        | 0 (0.0)        | 1 (2.0)           |
| Urinary Tract Infection     | 0 (0.0)        | 1 (2.0)           |
| Pneumonia Mycoplasmal       | 1 (2.0)        | 0 (0.0)           |
| Pneumonia Viral             | 1 (2.0)        | 0 (0.0)           |
| Respiratory Syncytial Virus | 1 (2.0)        | 0 (0.0)           |
| Bronchiolitis               | <u> </u>       | ` ,               |
| Oxygen Saturation Decreased | 0 (0.0)        | 1 (2.0)           |
| Food Refusal                | 0 (0.0)        | 1 (2.0)           |
| Pneumonia Aspiration        | 0 (0.0)        | 1 (2.0)           |
| Нурохіа                     | 1 (2.0)        | 0 (0.0)           |
| Faecaloma                   | 1 (2.0)        | 0 (0.0)           |
| Hypotonia                   | 1 (2.0)        | 0 (0.0)           |
| Seizure                     | 1 (2.0)        | 0 (0.0)           |
| Unresponsive to Stimuli     | 1 (2.0)        | 0 (0.0)           |



### **Summary of Safety Findings**

- Ganaxolone was generally well tolerated and patients experienced less than a 5 percent discontinuation rate in the treatment arm
  - Somnolence was the most common adverse event.
- Serious adverse events (SAEs) were reported in 12% and 9.8% of ganaxolone and placebo treated patients, respectively
  - No clinically significant pattern of SAEs





# Q&A

