



# CTx-1301 (Dexmethylphenidate HCl)

**Joseph Corsetti**  
President – Global PharmaPartners, Inc.  
Mobile: (201) 919-2047  
Tel: (417) 885-7000  
Email: [jcorsetti@globalpharmapartners.com](mailto:jcorsetti@globalpharmapartners.com)

**Jonathan Camerer**  
Vice President – Global PharmaPartners, Inc.  
Mobile: (417) 576-5082  
Tel: (417) 885-7000  
Email: [jonathancamerer@globalpharmapartners.com](mailto:jonathancamerer@globalpharmapartners.com)

### BRANDED PRODUCTS

**Focalin XR: 505(b)(2) Reference Listed Drug** CTx-1301(Brand Name TBD)

**API NAME** Dexmethylphenidate HCl (CTx-1301)

### DOSAGE FORM & CHARACTERISTICS

- CTx-1301 (Dexmethylphenidate HCl; dMPH) is a film-coated trimodal modified-release tablet based on a tablet-in-tablet technology.
- dMPH to optimize patient treatment is released in a 35% pulse(t=0)/45% pulse (sustained release t=4hrs)/20% pulse (t=8hrs) ratio.
- Dosage strengths (8) of dMPH are 6.25mg; 12.5mg; 18.75mg; 25.0mg; 31.25mg; 37.5mg; 43.75mg; 50mg.
- The tablet is designed to provide an immediate release of dMPH (within 30 minutes), provide entire active day efficacy and based on the release ratio reduce and/or eliminate the need for an extra “booster” dose which is common in clinical practice.

**INDICATION** Treatment of ADHD

### MARKET DYNAMICS (US)

- Total ADHD Market:\$22B; stimulants take 77% of the value. Long acting stimulants hold \$15B of the prescriptions. (Symphony data Nov 2023)
- Adult ADHD is underdiagnosed and undertreated. Adult market is burgeoning, will continue with the introduction of APSARD adult guidelines in late 2024.

### PAYOR RESEARCH:

- Conducted 10 in-depth telephone interviews with pharmacy directors recruited from traditional health insurers (n=6) and PBMs (n=4) managing **approx. 121.8 million total lives:**114.1 mil Commercial lives and 7.6 mil Medicaid lives.
- **CTx-1301 is likely to gain commercial coverage** as a Preferred brand without restrictions or as a Non-Preferred brand with 1-2 steps; dependent on rebate ranges; Medicaid coverage will require supplemental rebates.
- CTx-1301 was rated most valuable versus Vyvanse, Adderall XR, Concerta, Focalin XR, Azstarys, and Quelbree.
- Contracting and pricing estimates yielded a WAC & Rebate range that is favorable to Cingulate’s current forecast models.

### DRUG APPROVAL STATUS

#### Clinical Phase 3; NDA filing targeted 1H2025

April 2024: alignment with the FDA on path forward to NDA submission  
Phase 3 clinical studies: enrollment closed. Existing data will be analyzed and submitted with the NDA submission. (<https://www.cingulate.com/news-releases/news-release-details/fda-clears-cingulate-file-marketing-approval-ctx-1301-treatment>).

Twelve FDA-required Registration batches have been manufactured, representing all 8 doses to be commercialized

(<https://www.cingulate.com/news-releases/news-release-details/cingulate-achieves-key-manufacturing-milestone-development-its>).

#### PATENT EXPIRY DATE:

- Focalin XR LOE: 2015
- CTx-1301 patents: earliest 2035

#### Timelines for Partnership for CTx-1301

- Definitive Agreement: **Q3 2024**
- 505(b)(2) NDA filing: **1H 2025**
- 505(b)(2) expected approval:**1H 2026**

#### Terms for US Partner

**Remaining Costs Split: 50% Cingulate and 50% US Partner (listed below)**

Licensing fees: \$8.2M total

- On signing of the contract: \$3.2M
- Conduct pre-NDA meeting: \$0.5M
- 505(b)(2) NDA filing: \$1.0M
- 505(b)(2) NDA approval: \$3.5M

#### Clinical Manufacturing Cost of Goods

Dosage	6.25mg	12.5mg	18.75mg	25mg	31.25mg	37.5mg	43.75mg	50mg
COGS	\$ 2.28	\$ 2.30	\$ 2.32	\$ 2.35	\$ 2.37	\$ 2.39	\$ 2.41	\$ 2.43

**Net Profit Split: 50% Cingulate/50% US Partner**

#### Sales Projections for US Partner (50/50 Profit Split)

##### Sales Projections:

2025 Net Sales 49.5M  
2026 Net Sales 282.4M  
2027 Net Sales 420.1M  
2028 Net Sales 456.5M  
2029 Net Sales 559.3M



Summary of Remaining Development Costs From January 2024 to Commercialization of CTx-1301		
Action Item	Budget	Timing
Manufacturing Analytics and Stability *	\$ 5,838,940.00	2Q24-1Q25
Phase I Fed/Fast Study **	\$ 2,500,000.00	3- 4Q 2024
Phase III. Completion of Ongoing Phase 3 program ***	\$ 2,706,211.00	2-3Q-2024
Additional General Clinical consulting fees	\$ 221,000.00	1Q24-1Q25
Regulatory Consulting fees***	\$ 2,192,000.00	1Q24-2Q25
<b>Grand Total</b>	<b>\$ 13,458,151.00</b>	
* Commercial supply agreement not in place; these costs are estimated. This includes process validation material which can be used for commercial product launch		
**FDA required study for 50mg dosage form		
***As this is Cingulate's first NDA filing; PDUFA first filing fee expected to be waived		
This does not include any commercialization costs; new product marketing (commercial development) costs nor pre-market medical affairs costs		

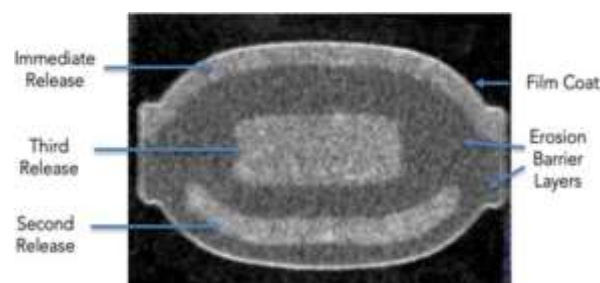
## About Cingulate and CTx-1301

Cingulate® (CTx®) is a Phase 3 clinical-stage biopharmaceutical company utilizing its proprietary Precision Timed Release™ (PTR™) drug delivery platform to build and advance a pipeline of branded next-generation pharmaceutical products. These will be designed to improve the lives of patients suffering from frequently diagnosed conditions characterized by burdensome daily dosing regimens and suboptimal treatment outcomes. With an initial focus on the treatment of Attention Deficit/Hyperactivity Disorder (ADHD) and Generalized Anxiety Disorder (GAD), Cingulate is identifying and evaluating additional therapeutic areas where PTR™ technology may be employed to develop future product candidates. ([www.Cingulate.com](http://www.Cingulate.com))

### About CTx-1301

Cingulate's lead candidate, CTx-1301, utilizes Cingulate's proprietary PTR drug delivery platform to create a breakthrough, multi-core formulation of the active pharmaceutical ingredient dexamethylphenidate; stimulants are the gold standard of ADHD treatment due to their efficacy and safety; the long-standing challenge continues to be providing patients entire active-day duration of action. **CTx-1301 is designed to do the following:**

- **Deliver three releases of medication precisely at the predefined time, ratio, and style of release to optimize patient care in one tablet.**
- **the result is a rapid onset and entire active-day efficacy, with the third dose being released around the time when other extended-release stimulant products begin to wear off.**



ADHD market is dominated by 4 stimulate products: Focalin® XR, Concerta®, Vyvanse® and Adderall XR. Non of these products satisfy all the patient needs of fast onset of action; entire active day efficacy, minimizing crash and rebound and the avoidance of a booster therapy. CTX-1301 has been designed to achieve all the patient needs.

CTx-1301 clinical data has demonstrated the following:

1. In an adult phase 3 study **the effect size of CTx-1301 was 2-5 times greater than currently available ADHD treatments**, demonstrating unprecedented real-world impact
2. **Head to head vs Focalin XR: 28.6% reduction in treatment-emergent adverse events**