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A clinical stage company redesigning therapies for neurological and psychiatric conditions

Deep expertise and broad experience in Pharma, from early innovation to late stage development

2018

Spin-Off

40 Team members

> 15 PHDs

> > 5 MDs



Chemistry

Technology

Preclinical

Clinical Pharmacology

Clinical Development

Regulatory Affairs

Innovation lab

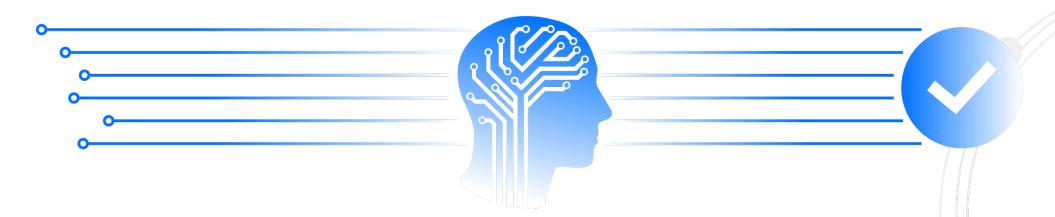
IP







Clexio at a glance



Multi-asset pipeline

- ✓ Lead asset in Phase 2
- ✓ Additional 3 assets in Ph1
- ✓ Preclinical pipeline

Focus on Psychiatry and Neurology

✓ Targeting significant and growing markets

Technological and therapeutic innovation

- ✓ 27 patent families, 12 granted in US
- ✓ Proprietary technologies
- ✓ Internal pipeline creation capabilities



Clexio's pipeline – current status

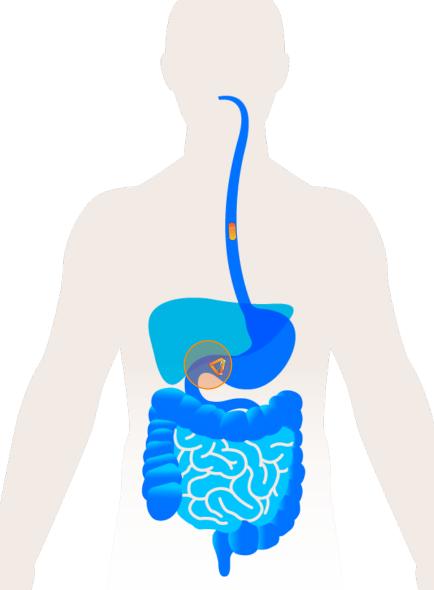
PROGRAM	PRE CLINICAL	PHASE1	PHASE 2	PHASE3	
CLE-100 NMDA receptor antagonist	Major Depressive Disorder				
	Depression in Bipolar Disorder				
CLE-400 Potent α2-adrenergic (and SST4, and H4) receptors agonist					
	Painful Diabetic Neur	opathy			
	Chronic Pruritus (initial focus on itch of neurological)	al origin)			
CLE-500 SPG block	Cluster Headache				
CLE-600 Dopamine precursor					
	Parkinson's Disease (e	enabled by OLAR®)			



Clexio's Oral Long Acting Release (OLAR®) technology

OLAR® is a novel platform designed for continuous drug delivery to the GI tract.

- Orally administered, non-invasive.
- △ Targeting more efficient drug absorption and lower drug plasma fluctuations. Continuous drug release for 8 24 hours, under fast and fed conditions.
- Versatile platform, suitable for multiple APIs and enabling high drug loading.
- Broad IP position with protection through 2037.
 First US patents issued.
- Valuable for new drugs or for Life Cycle Management





OLAR® mechanism





Folded configuration Enables swallowing

A platform designed to be swallowed in a folded configuration, in a capsule.

Unfolded configurationControls gastric retention

After swallowing, platform unfolds to a triangle, with a size bigger than average pylorus. It is then retained in the stomach while releasing inner formulation (multiple tablets).

Disassembled configuration Allowing gastric exit

After formulation dissolution/ erosion, the platform disassembles to parts smaller than the pyloric size, thus emptied from the stomach and soften/degrade in intestine.



OLAR® – why, when and how?

Why?

- Continuous drug delivery to the GI tract by gastric retention
- Maximizes drug absorption
- Reduces drug plasma fluctuations

When?

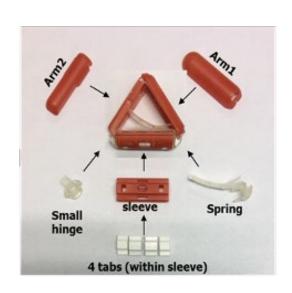
- When traditional Extended Release formulations don't provide the required PK profile
- △ To be used with drugs which have narrow absorption window or act locally in the stomach or in the upper GI tract
- When there is a need to reduce total dose while maintaining efficacy
- When Reducing Cmax has the potential to improve side effects

How?

- Gastric Retention properties independent of food intake
- Timer mechanism (based on formulation and dissolution parameters) for exit from stomach
- Drug formulation is independent of the OLAR®
- Versatile platform, suitable for multiple drugs and drug combinations
- Enables high drug loading up to 750mg total weight
- 🛆 🛮 Safe passage through Gl



OLAR® innovative pillars



Timer disassembly

based on inner tablet dissolution



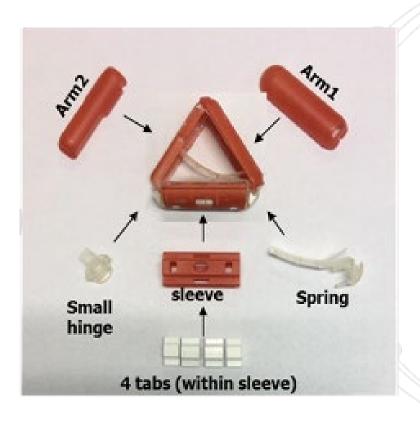
Made only of pharmaceutical excipients

OLAR® allows for continuous drug release to the upper GI

Extended profile achieved by slow dissolution in the sleeve (through the holes)



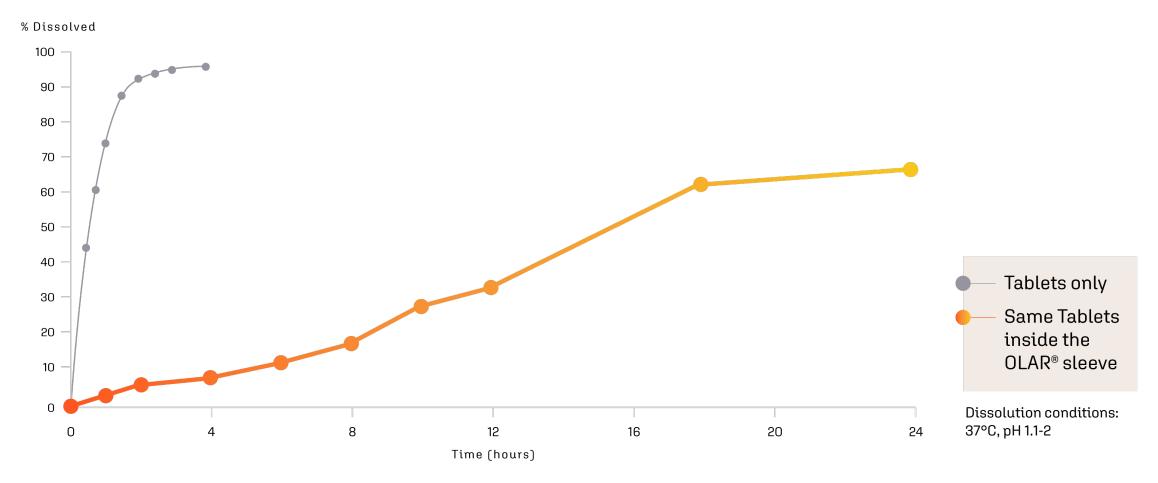
Gastric Retention is achieved by the triangle shape



In-Vitro: Extended Release profile achieved by slow dissolution of the inner tablets in the OLAR®



Once placed in the OLAR®, the Immediate Release tablets provide an Extended Release profile

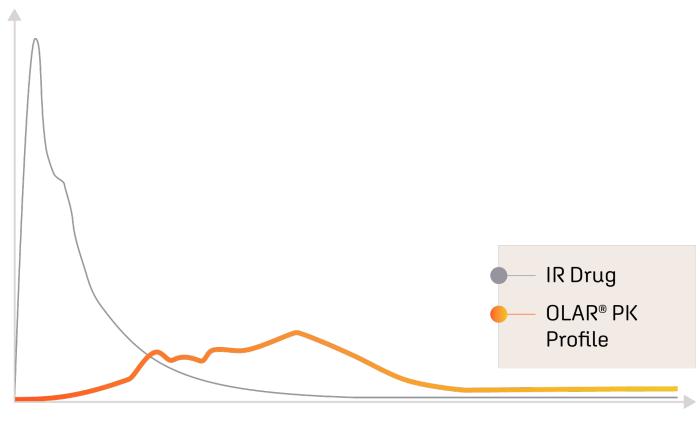




OLAR® modifies PK profile

Clexio performed a Ph1 in 18 healthy volunteers

- Extended PK profile was demonstrated vs. IR drug
- Significant Cmax reduction (75%) while keeping similar AUC
- Significant Tmax extension
- Good correlation between PK profile and gastric retention



* Illustration only, not actual data



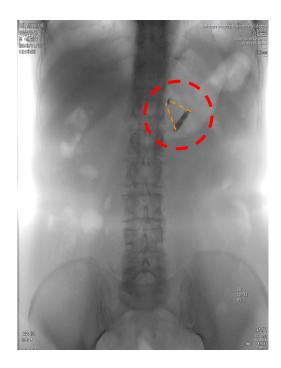
Gastric Retention is achieved by OLAR® triangle shape



X-Ray example from Clexio **Phase 1 PK study**



At 10 min

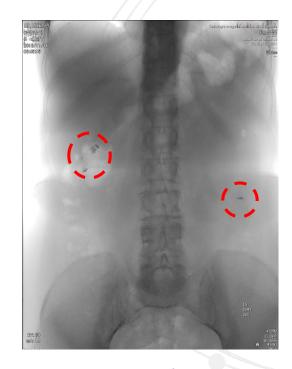


At 4 hr

OLAR® is in the stomach (in its triangle shape)



At 8 hr



At 24 hr

OLAR® is in the colon (triangle dis-assembled)



OLAR® differentiation vs other Extended Release formulations

	OLAR®	Extended Release formulations
Increases the drug retention time in the stomach and allows constant flow of the drug to the GI		
Maximizes drug absorption (Bioavailability) of compounds with narrow absorption window that are mainly absorbed in the upper GI (e.g. Levodopa)	✓	
Reduces drug plasma fluctuations enabled by zero order-like release		some
Formulation has to be tailor made for each drug		
Enables combination of different release rates	✓	



OLAR® development at glance



Drug delivery system, formulations and in-vitro testing methods were developed



- IP:
- △ 5 patent families on the technology (expiry from 2037)
- First patents issued in US
- △ 1 patent family on technology utilization in Parkinson (CLE-600)



Extensive preclinical studies in pigs and dogs

No local or systemic toxicities identified after repeated dosing



Completed 2 Ph1 studies with the current prototype: promising imaging results (gastric retentive properties) and PK results, good safety profile



OLAR® utilizations



Levodopa/Carbidopa night pill based on OLAR® Target: PD nocturnal symptoms, EMO...

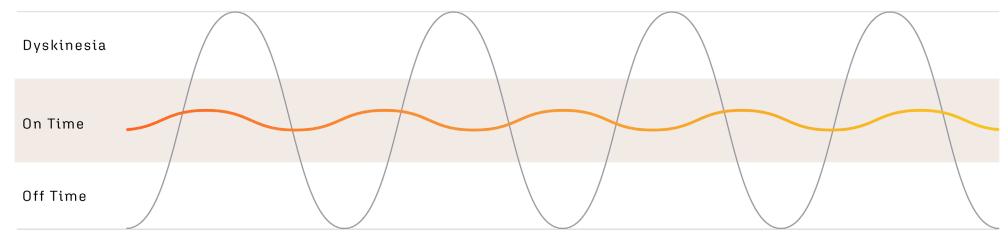


Collaboration with other
Pharma companies to improve
drug performance – "Plug and
Play" model



OLAR® utilization for Parkinson's disease – CLE-600

- Levodopa/Carbidopa formulation loaded onto the OLAR® platform
- Developed for PD nocturnal symptoms and Early morning OFF
- Successful Ph1 PK study in Healthy Volunteers
- Resulting in long extended release PK profile for LD capable to cover the night



^{*} Illustration only, not actual data



^{*} CLE-600 is currently an investigational product and not approved for marketing in the US

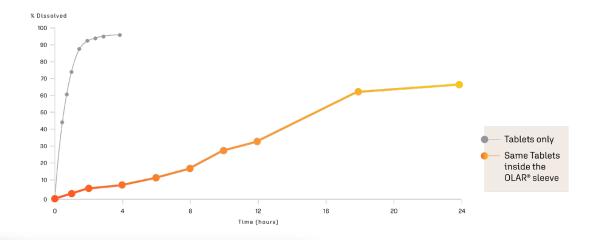
OLAR® utilization as "plug and play" model

Case study: Partner wants to improve the PK profile of one of its compounds:

e.g. maximizes drug absorption, e.g. reduces drug plasma fluctuations, e.g. increase half life







Partner prepares tablets with "mushroom" shape, using tablet punches supplied by Clexio

Partner ships the tablets to Clexio

Clexio team plug the tablets into the **OLAR**® Clexio evaluates dissolution profile of the Partner tablets within the OLAR® (In-Vitro)

Partner to decide if to continue to In-Vivo studies



Clexio's Oral Long Acting Release (OLAR®) technology



- Orally administered, **non-invasive.**
- △ Targeting more efficient drug absorption and lower drug plasma fluctuations. Continuous drug release for 8 24 hours, under fast and fed conditions.
- Versatile platform, suitable for multiple APIs and enabling high drug loading (up to 750mg total formulation).
- Drug formulation is independent of the OLAR®
- Broad IP position with protection through 2037.

We welcome collaboration with other companies for the **OLAR® platform To enhance drug performance**



