#### EG∃TIS TH∃RAPEUTICS



#### Corporate presentation May 2022

## An integrated orphan drug company, focusing on late-stage development for commercialization

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- **1.** An integrated orphan drug company, focusing on late-stage development for commercialization
- 2. Emcitate<sup>®</sup>
  - Clinical development program
  - Commercial opportunity
- 3. Aladote<sup>®</sup>
  - Clinical development program
  - Commercial opportunity
- 4. The orphan drug segment and path to market
- 5. Summary
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# An integrated orphan drug company, focusing on late-stage <u>development for commer</u>cialization



## Significant progress towards Emcitate<sup>®</sup> marketing applications in the US and Europe in 2023

Strong momentum continues in 2022

- Fruitful regulatory interactions clarify the regulatory path forward for Emcitate
  - Targeting Emcitate EU MAA submission H1 2023.
  - Targeting Emcitate US NDA submission mid-2023 under the Fast Track Designation.
  - FDA acknowledges that effects on T3 levels and the manifestations of chronic thyrotoxicosis could provide a basis for Emcitate approval.
  - For the US submission, a 30-day, placebo-controlled study in 16 patients will be conducted to verify the results on T3 levels seen in previous clinical trials and publications.
- The outcome from the regulatory interactions increases the likelihood of success for Emcitate and the probability to receive *Priority Review Voucher* (PRV) in the US.
- Triac Trial II study with Emcitate fully recruited results Q1 2024.
- Orphan drug designation (ODD) for Emcitate for RTH-β in the US and EU.
- SEK 180 million fully guaranteed preferential rights issue approved at EGM.

# An integrated orphan drug company, focusing on late-stage development for commercialization



Dedicated orphan drug development company with two late-stage orphan drug assets: **Emcitate**<sup>®</sup> and **Aladote**<sup>®</sup>

Target MAA/NDA submissions for Emcitate in 2023 and for Aladote in 2024/2025



Highly attractive **orphan drug segment** with potential **>\$1Bn annual sales opportunity** 



Plan to **launch** through small inhouse commercial organization in the EU and US

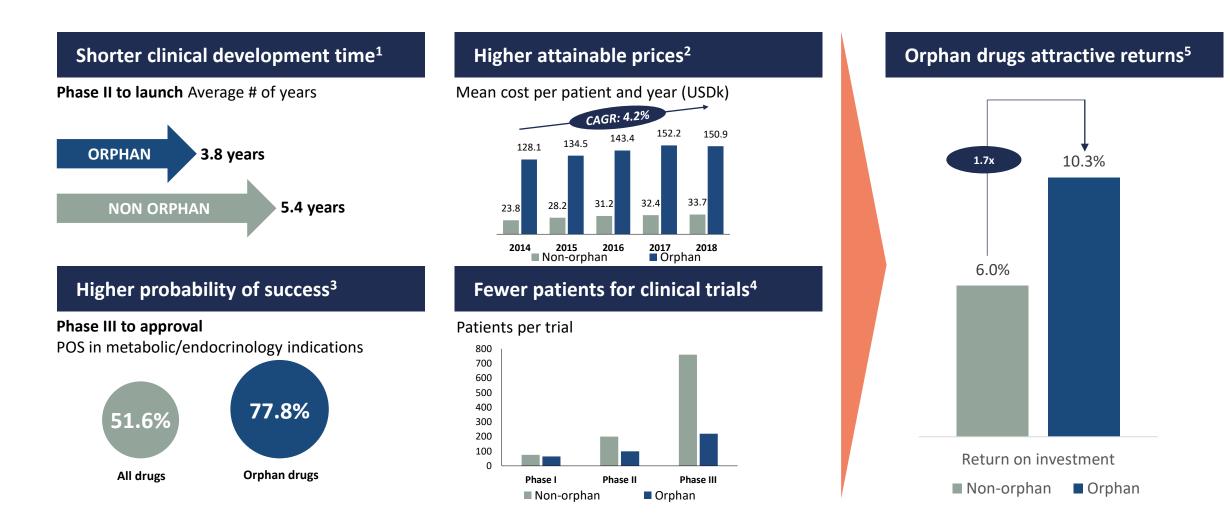


Combined core expertise in **late-stage orphan clinical development, registration and commercialization** with experience from: SODI EXERCISE Medical Need UNIVARIES AstraZeneca Strazeneca Strazenec



Listed on NASDAQ Stockholm (EGTX) HQ in Stockholm, Sweden

### **Orphan drug segment – a highly attractive opportunity**



Source: (1) Orphan drug development: an economically viable strategy for biopharma R&D, Meekings, Williams & Arrowsmith, 2012; (2) EvaluatePharma; (3) Estimation of clinical trial success rates and related Corporate presentation | Egetis Therapeutics | 2022-05-24 **7** parameters, C. Wong, K. Siah, A. Lo, Biostatistics, 2019; (4) BioMed Central; (5) EvaluatePharma Orphan Drug Report 2013 Note: Orphan Drugs: Populations of less than 5/10,000 inhabitants in the EU or <200,000 inhabitants in the US

## **Pipeline overview**

#### Planned Emcitate EU and US filings in 2023

Candidate	Preclinical Phase I	Phase II/III	Submission	Comments
<i>Emcitate</i> EU MCT8 deficiency			H1 2023	- All clinical data available for submission
<i>Emcitate</i> US MCT8 deficiency			mid 2023	- 16 patients, 30-day randomized trial to be performed in 2022
<i>Emcitate</i> MCT8 deficiency		Triac Trial II		<ul> <li>Fully recruited, data Q1 2024</li> <li>Neurocognitive endpoints, post approval study</li> </ul>
<i>Emcitate</i> RTH-β				<ul> <li>ODD received by FDA &amp; EMA in Q1 2022</li> <li>Development pathway under evaluation</li> </ul>
Aladote Paracetamol poisoning			2024/25	- Start of pivotal study in 2022

### Two highly promising orphan drug candidates

#### Emcitate® – Therapy for MCT8 deficiency

- MCT8 deficiency affects ~1:70,000 males: high unmet medical need, no available treatment. No competing sponsored products in clinical development
- ODD in EU & US
- US Rare Pediatric Disease Designation, eligible for Priority Review Voucher. Fast track designation granted by FDA
- Triac Trial I (Phase IIb) completed with **significant** and **clinically** relevant effects on **T3 levels** and the manifestations of **chronic thyrotoxicosis**
- Real-world data published 2021 confirms long-term efficacy and safety of Emcitate
- MAA based on existing clinical data in H1 2023
- NDA in mid 2023, after conducting a 30 days placebo-controlled study in 16 patients to verify the results on T3
- Triac Trial II fully recruited; to establish the effects of early intervention on neurocognitive development, previously seen in Triac Trial I. Results expected in Q1 2024
- More than 150 patients are being treated with Emcitate on a named patient basis

## Aladote<sup>®</sup> – To prevent acute liver injury caused by paracetamol poisoning

- Paracetamol poisoning is one of the most common overdoses with >175,000 hospital admissions globally per annum
- No adequate treatment exists for increased risk patients
- Orphan drug designation (ODD) granted in 2019 in the US
- Ongoing dialogue with EMA on the appropriate scope of the indication for an ODD in the EU
- Successful results from Phase Ib/IIa study in paracetamol overdosed patients
- Pivotal Phase IIb/III study planned for marketing authorization application in both US and EU, targeting study start in 2022
- No competing products in clinical development

#### **2.** Emcitate<sup>®</sup> - clinical development program



## MCT8 deficiency: a detrimental condition with significant unmet medical need

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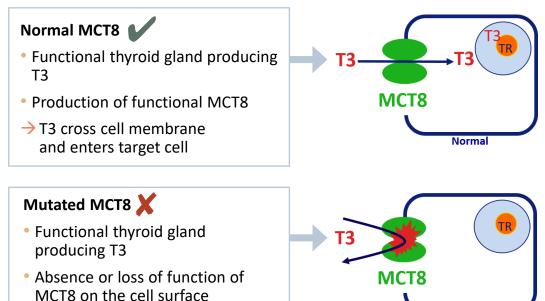
What is MCT8 deficiency?	What does it mean?	What are the challenges?	How do you manage the disease?	Quick facts from natural history <sup>2</sup>
<ul> <li>Genetic X-linked disorder</li> <li>Impaired thyroid hormone trafficking across cellular membranes</li> <li>MCT8 is a key thyroid hormone transporters in the body</li> <li>Prevalence 1:70,000 males</li> </ul>	<ul> <li>Non-functional MCT8 protein: T3 cannot cross blood-brain- barrier</li> <li>Low amounts of thyroid hormone in the brain &amp; CNS</li> <li>Disrupted feedback loop results in a compensatory increase in circulating thyroid hormone</li> </ul>	<ul> <li>Patients appear normal at birth</li> <li>Initial symptoms within the first months of life</li> <li>Severe intellectual disability</li> <li>Most patients never able to sit or walk; limited ability to communicate</li> <li>Life-long morbidity: agitation, CV symptoms, wasting &amp; impaired life expectancy</li> </ul>	<ul> <li>No available therapy</li> <li>Easy diagnosis once considered with readily available, low-cost lab-test</li> <li>Large proportion of patients remain undiagnosed with significant delay to diagnosis</li> </ul>	Median onset of symptoms:4 monthsMedian age of diagnosis:24 monthsPatients surviving into adulthood:70%Severe intellectual disability:100%Ability to sit independently:8%Hypotonia, hypertonia& persistence of primitive reflexes:90%
Fatients with MCT8 Deficiency <sup>1</sup>	• Simultaneous too high & too low thyroid hormone in different tissues	<ul> <li>Heavily dependant on caregivers resulting in very high disease burden</li> </ul>	<ul> <li>Significant unmet medical need: humanitarian, health economic, societal</li> </ul>	Severe underweight:75%Cardiac arrythmias (PAC):76%Median life expectancy:35 yearsLife long 24-hour care:100%

## **Orphan drug candidate**

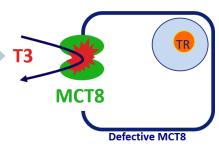
with clear scientific and mechanistic rationale and established safety profile

#### Difference normal MCT8 and deficiency of MCT8

 Thyroid hormone T3 requires transporters such as MCT8 to enter the target cells

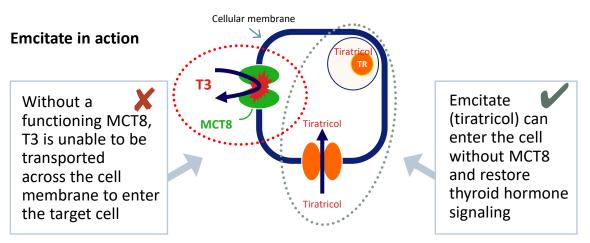


 $\rightarrow$  T3 cannot cross cell membrane and fails to enter cells



#### Emcitate (tiratricol) – Addressing the MCT8 deficiency

- Tiratricol is a thyroid hormone analogue with high chemical and structural similarity to T3
- Unlike T3, tiratricol can cross cellular membranes without a functional MCT8 transporter
- Tiratricol can bypass the problem in patients with MCT8 deficiency, enter MCT8 deficient cells and restore thyroid hormone signalling
- Experience from 40 years on the French market in a different indication, owned and controlled by company



#### **Emcitate® Overview**

Lead candidate for addressing MCT8 deficiency, a condition with high unmet medical need and no available treatment

Triac Trial I completed with significant and clinically relevant effects Erasmus Medical Center cohort study confirms long-term efficacy and safety in MCT8 deficiency patients for up to 6 years (Oct 2021) Clinical Triac Trial II, early intervention trial in young subjects to establish the effect on the neurocognitive development, previously seen in Triac Trial I. Fully recruited April 2022. Results expected Q1 2024 Orphan drug designation in EU & US, US Rare Pediatric Disease Designation - eligible for Priority Review Voucher **Fast track designation** granted by FDA (Oct 2021) Intend to submit MAA to the EMA based on existing clinical data H1 2023 Regulatory US NDA submission planned mid-2023: A 30-day, placebo-controlled study in 16 patients will be conducted to verify the results on T3 levels seen in previous clinical trials and publications Estimated 10k – 15k MCT8 deficiency patients (1:70k males), no sponsor-initiated trials ongoing in MCT8 deficiency Analogue orphan drugs priced at premium . Launched disease awareness initiatives to support diagnosis of MCT8 deficiency Commercial More than 150 patients are being treated with Emcitate on a named patient or compassionate use basis, following individual regulatory approvals from national regulatory agencies Expected market exclusivity is **12y in EU** (ODD 10y, pediatric ext. 2y), **7.5y in US** (ODD 7y, pediatric 0.5y)

#### **Overview of completed Phase IIb – Triac Trial I**

**Primary** objective and results

Secondary objective and results

Description

# of patients

Timetable

 Evaluate the efficacy and safety of oral administration of tiratricol in male patients with MCT8 deficiency of all ages

- Highly significant primary outcome Change in T3 serum concentrations
- Safe and tolerable
- Results published in The Lancet 2019
- Change in other thyroid hormone function tests, thyrotoxic symptoms and markers
- Significant and clinically relevant effects observed across secondary endpoints
- An international, single-arm, open-label, Phase II trial
- ClinicalTrials.gov identifier: NCT02060474
- 46 MCT8 patients in 9 countries

Initiated in October 2014 (first patient in)

Completed in June 2018

#### THE LANCET

Effectiveness and safety of the tri-iodothyronine analogue Triac in children and adults with MCT8 deficiency: an international, single-arm, open-label, phase 2 trial

Stefan Groeneweg, Robin P. Peeters, Carla Moran, Athanasia Stoupa, Françoise Auriol, Davide Tonduti, Alice Dica, Laura Paone, Klara Razenkova, Jana Malikova, Adri van der Walt, Irenaeus FM de Coa, Anne McGowan, Geet a Lyons, Fernke K Aarsen, Diana Barca, Ingrid M van Beyrum, MariekeM van der Knoop, Jurgen Jansen, Martien Manshande\*, Roelineke J Lunsing, Stan Nowak, Corstiaan A den Uil, M Carola Zillikens, Frank E Visser, Paul Vrijmoeth, Marie Claire Y de Wit, Nicole I Wolf, Angelique Zandstra, Gautam Ambegaonkar, Yogen Singh, Yolanda B de Rijke Marco Medici, Enrico S Bertini, Sylvia Depoort et, Jan Lebl, Marco Cappa, Linda De Meideir\*, Heiko Krude, Dana Craiu, Federica Zibordi, Isabelle Oliver Petit, Michel Polak, Krishna Chatterjee, TheoJ Visser\*, W Edward Visser

#### Summary

Background Deficiency of the thyroid hormone transporter monocarboxylate transporter 8 (MCT8) causes severe LournDistension intellectual and motor disability and high serum tri-iodothyronine (T.) concentrations (Allan-Herndon-Dudley Politoned Online syndrome). This chronic thyrotoxicosis leads to progressive deterioration in bodyweight, tachycardia, and muscle 10931, 2019 http://dx.doi.org/10.1016 wasting, predisposing affected individuals to substantial morbidity and mortality. Treatment that safely alleviates \$2213-8587(19)30155-X peripheral thyrotoxicosis and reverses cerebral hypothyroidism is not yet available. We aimed to investigate the effects of treatment with the T, analogue Triac (3.3',5-tri-iodothyroacetic acid, or tiratricol), in patients with MCT8 deficiency. See Centime / Comment 52213-8587(19)30217-7

Methods In this investigator-initiated, multicentre, open-label, single-arm, phase 2, pragmatic trial, we investigated the "ownershowed entrymand det names and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrated and adult patients with MCT8 deficiency in eight countries in 2018, Prof.Demonstrate Europe and one site in South Africa. Triac was administered in a predefined escalating dose schedule-after the initial October 2018 and Prof T LVIsse died in March, 2018 dose of once-daily 350 µg Triac, the daily dose was increased progressively in 350 µg increments, with the goal of Academic Center for Thyrolo attaining serum total T<sub>s</sub> concentrations within the target range of 1-4-2-5 nmol/L. We assessed changes in several clinical and biochemical signs of hyperthyroidism between baseline and 12 months of treatment. The prespectified primary endpoints was the change in serum T, concentrations from baseline to month 12. The co-primary endpoints MMMdCIMO, ProfT/VaserPh were changes in concentrations of serum thyroid stimulating hormone (TSH), free and total thyroxine (T.), and total WEVEDER MO, Sophia Children's Hospital Division reverse T, from baseline to month 12. These analyses were done in patients who received at least one dose of Triac and of Paedlatric Cardiology had at least one post-baseline evaluation of serum throid function. This trial is registered with Clinical Trials.gov, number (Myan Beynum MD) NCT02060474. Sophia Children's Hospital Department of Par

Neurology (FFM de Coo MI) Findings Between Oct 15, 2014, and June 1, 2017, we screened 50 patients, all of whom were eligible. Of these patients, four (8%) patients decided not to participate because of travel commitments. 46 (92%) patients were therefore enrolled MM van der Knopp MSc. in the trial to receive Triac (median age 7-1 years [range 0-8-66-8]) . 45 (98%) participants received Triac and had at MCY deWEMD), Department least one follow-up measurement of thy roid function and thus were included in the analyses of the primary endpoints. of Castology and Internate Care Medicine (C A den UI MD) Of these 45 patients, five did not complete the trial (two patients withdrew [travel burden, severe pre-existing Department of Clinical comorbidity], one was lost to follow-up, one developed of Graves disease, and one died of sepsis). Patients required a Committy mean dose of 38.3 µg/kg of bodyweight (range 6 4-84-3) to attain T, concentrations within the target range. Serum T, (Pte(YEGO RUR PED) concentration decreased from 4.97 nmol/L (SD 1.55) at baseline to 1.82 nmol/L (0.69) at month 12 (mean decrease Meticine and Department of In 3-15 nmol/L, 95% CI 2-68-3-62; p<0-0001), while serum TSH concentrations decreased from 2-91 mU/L (SD 1-68) to 1.02 mU/L (1.14; mean decrease 1.89 mU/L, 1.39-2.39; p<0.0001) and serum free T, concentrations decreased Medica Centre, Bottestam, from 9.5 pmol/L (SD 2.5) to 3.4 (1.6; mean decrease 6.1 pmol/L (5.4-6.8; p<0.0001). Additionally, serum total T, Netherlands, Welkome Trust Medical Research Council concentrations decreased by 31 - 6 nmol/L (28 - 0-35 - 2; p<0 - 0001) and reverse T, by 0 - 08 nmol/L (0 - 05-0 - 10; p<0 - 0001). Institute of Metabolic Science Seven treatment-related adverse events (transiently increased perspiration or irritability) occurred in six (13%) patients. University of Cambridge, 26 serious adverse events that were considered unrelated to treatment occurred in 18 (39%) patients (mostly hospital Cameroge UK (C MIGANAI), admissions because of infections). One patient died from pulmonary sepsis leading to multi-organ failure, which was A McGowanMQ Giyon RCN. K Chatterice FRCPi- Paediatric unrelated to Triac treatment Endocrinology, Diabetology and Gynaecology Departmen Interpretation Key features of peripheral thyrotoxicosis were alleviated in paediatric and adult patients with MCT8 Networkshy deficiency who were treated with Triac. Triac seems a reasonable treatment strategy to ameliorate the consequences of Hospital imagine institute. Paris France (A Stoupa M.D. untreated peripheral thyrotoxicosis in patients with MCT8 deficiency. Prof M Folds M.D. Department

of Paedlatric Endocrinology Funding Dutch Scientific Organization, Sherman Foundation, NeMO Foundation, Wellcome Trust, UK National and Genetics, Children's Institute for Health Research Cambridge Biomedical Centre, Toulouse University Hospital, and Una Vita Rara ONLUS. Hospital Toutouse University Hospital Toulouse France

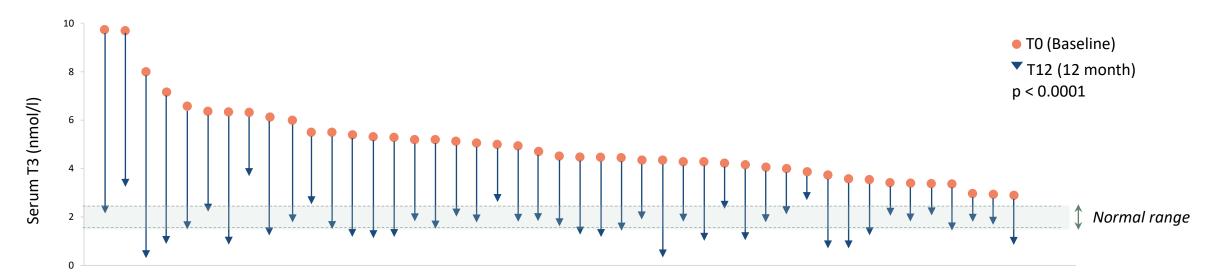
www.thelancet.com/diabetes-endocrinology\_Published online July 31, 2019. http://dx.doi.org/10.1016/52213-8587(19)30155-X

Articles

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### **Consistent, clinically relevant and highly significant results**

Reached target level serum T3 in completed Phase IIb trial (Triac Trial I)

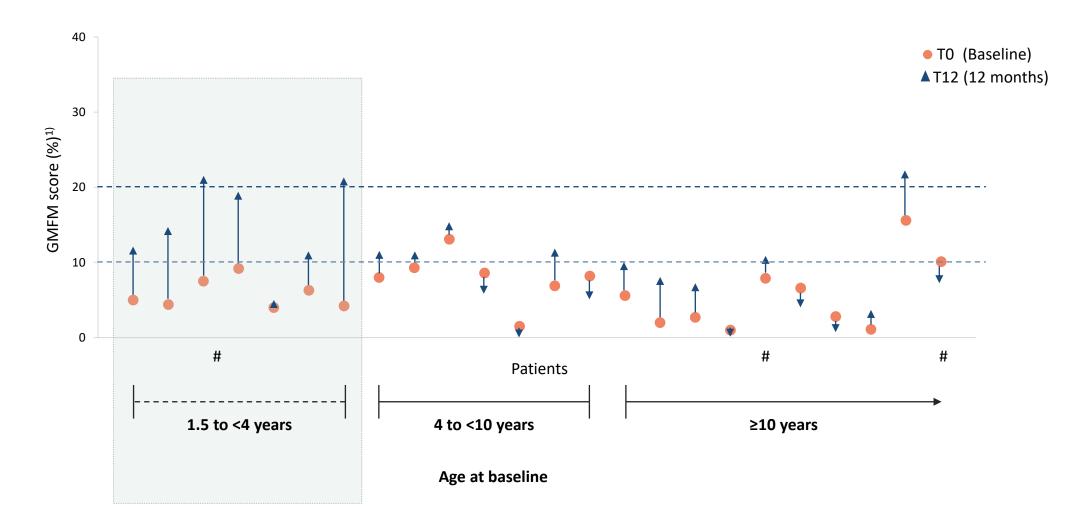


Endpoints	Baseline mean ( $\pm$ SD)	12 months mean ( $\pm$ SD)	Difference in means (95% CI)	p-value
Serum T3 (nmol/L)	4.97 (± 1.55)	1.82 (± 0.69)	-3.15 (-3.62, -2.68)	<0.0001
Weight to age (z score)	-2.98 ( <i>±</i> 1.93)	-2.71 ( ± 1.79)	0.27 (0.03, 0.50)	0.025
Resting heart rate (bpm)	112 ( <i>± 23</i> )	104 ( <i>±</i> 17)	-9 (-16, -2)	0.01
Mean heart rate 24 h (bpm)	102 ( $\pm$ 14)	97 ( <i>± 9</i> )	-5 <i>(-9, -1)</i>	0.012
SHBG (nmol/L)	212 ( <i>±</i> 91)	178 ( <i>± 76)</i>	-35 <i>(-55, -15)</i>	0.0013
Total cholesterol (mmol/L)	3.2 ( ± 0.7)	3.4 ( ± 0.7)	0.2 (0.0, 0.3)	0.056
CK (U/L)	108 ( <i>± 90</i> )	161 ( <i>± 117</i> )	53 <i>(27, 78)</i>	<0.0001

Source: Groeneweg et al; Lancet D&E 2019

#### Indication of positive effect on neurocognitive development

In the youngest patients which is further studied in ongoing Triac Trial II



## New data confirms long-term efficacy and safety of Emcitate<sup>®</sup> in MCT8 deficiency patients

Published in October, 2021

ACCEPTED MANUSCRIPT

#### Long-term efficacy of T3 analogue Triac in children and adults with MCT8 deficiency: a real-life retrospective cohort study a

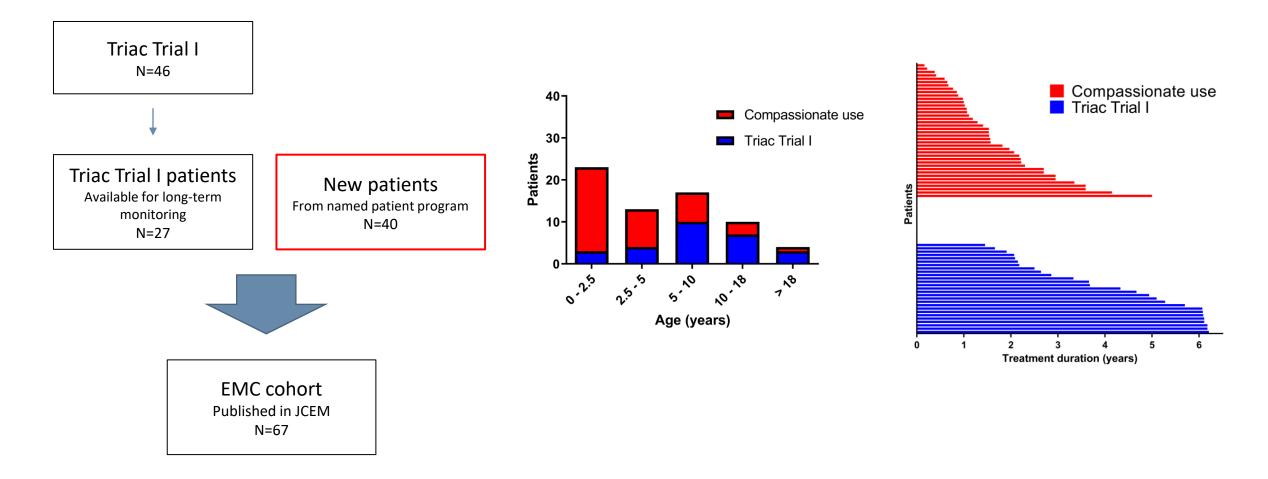
Ferdy S van Geest, Stefan Groeneweg, Erica L T van den Akker, Iuliu Bacos, Diana Barca, Sjoerd A A van den Berg, Enrico Bertini, Doris Brunner, Nicola Brunetti-Pierri, Marco Cappa ... Show more Author Notes



- Investigator-initiated real-world cohort study at 33 sites conducted by the Erasmus Medical Center
- Investigated efficacy and safety of Emcitate in 67 patients with MCT8 deficiency
  - Median baseline age of 4.6 years (range: 0.5–66 years) and were treated with tiratricol for up to 6 years, with a median of 2.2 years (range 0.2 – 6.2 years)
  - The primary endpoint in the study was the change in serum T3 concentration from baseline to last-available measurement
  - The pre-specified secondary endpoints were key measurements of clinical complications of chronic peripheral thyrotoxicosis

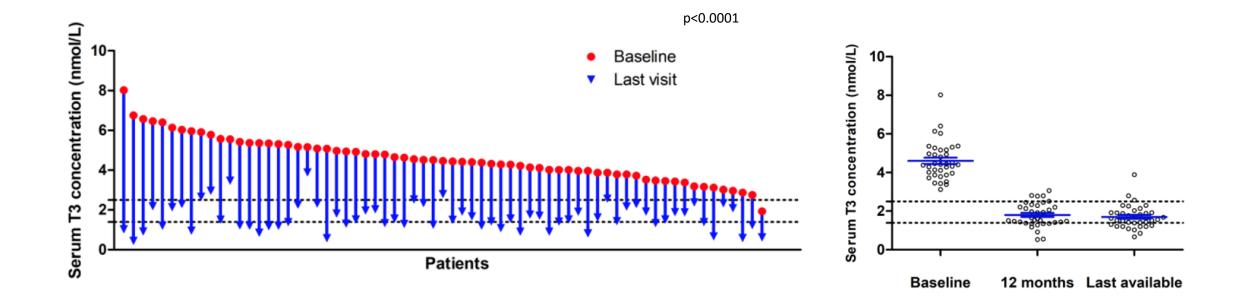
#### New patient cohort of equal size to the Triac Trial I

Long term follow up up to >6 years



#### New cohort confirms primary endpoint results in Triac Trial I

Fast and durable normalization of T3 values in almost all patients



#### Consistent, clinically relevant and highly significant results across endpoints

- Data confirm the positive results from previous study, Triac Trial I
- Normalization of serum T3 corresponds to improvement in thyroid hormone status in end target tissues
- Beneficial effects are maintained or continue to improve over time, up to six years
- Consistent efficacy seen across key clinical and biochemical parameters that were sustainably alleviated in patients with MCT8 deficiency regardless of age

	Baseline	Last visit	Mean change (95%	P value	
	mean (SD)	mean (SD)	CI)		
Primary outcome					
T3 (nmol/L; n=67)	4.58 (1.11)	1.66 (0.69)	-2.92 (-3.23 to -2.61)	< 0.0001	
Secondary outcomes					
Anthropometric parameters and					
heart rate					
Body weight (kg; n=58)	17.8 (12.1)	23.6 (14.5)	5.7 (4.2 to 7.2)		
Weight-for-age Z score (n=58)	-2.81 (1.94)	-2.64 (1.81)	0.17 (-0.18 to 0.53)	0.3263	
∆ Weight-for-age – predicted	0.07 (1.83)	0.79 (1.92)	0.72 (0.36 to 1.09)	0.0002	
weight-for-age Z score (n=55)					
Height (cm; n=44)	101 (21)	116 (23)	15 (12 to 19)		
Height-for-age Z score (n=44)	-1.84 (1.77)	-1.92 (1.51)	-0.09 (-0.50 to 0.32)	0.6705	
∆ Height-for-age – predicted	-0.44 (1.38)	0.14 (1.41)	0.58 (0.12 to 1.05)	0.0139	
height-for-age Z score (n=43)					
Weight-for-height Z score (n=44)	-2.02 (2.49)	-1.50 (2.44)	0.52 (-0.35 to 1.39)	0.2358	
Heart rate (bpm; n=48)	113 (21)	97 (20)	-17 (-24 to -10)	< 0.0001	
Heart rate-for-age Z score (n=48)	1.59 (0.89)	0.96 (1.01)	-0.64 (- 0.98 to -0.29)	0.0005	
Thyroid function tests					
TSH (mU/L; n=62)*	3.32 (2.30)	0.95 (0.73)	-2.38 (-2.98 to -1.77)	< 0.0001	
Free T4 (pmol/L; n=64)	9.5 (2.3)	3.4 (1.6)	-6.1 (-6.7 to -5.4)	< 0.0001	
T4 (nmol/L; n=63)	54.2 (11.8)	18.1 (9.8)	-36.1 (-39.5 to -32.7)	< 0.0001	
Peripheral markers					
Sex hormone-binding globulin	245 (99)	209 (92)	-36 (-57 to -16)	0.0008	
(nmol/L; n=48)					
Creatinine (µmol/L; n=47)	32 (11)	39 (13)	7 (6 to 9)	< 0.0001	
Creatine kinase (U/L; n=47)*	110 (87)	128 (80)	18 (-8 to 45)	0.2166	
All outcomes were assessed in all p	atients who receiv	ed Triac treatmer	nt longer than the mean tim	ne to optimal	
dose (5.0 months; N=64). Data are				-	
calculator and heart rate-for-age Z					
T3=tri-iodothyronine. TSH=thyroi					
concentrations were log-transform					
transformed means [SDs] and mean changes [95% CIs] are presented for the sake of interpretability).					

## Egetis intends to submit MAA for Emcitate<sup>®</sup> to EMA in H1 2023 based on existing clinical data

Press release issued Dec 13, 2021

- Based on regulatory interactions, Egetis concludes that available data from Triac Trial I and recently published long-term data are sufficient for a Marketing Authorisation Application (MAA) in Europe
- Having all clinical data required for regulatory submission already at hand **significantly reduces the remaining risk** for Emcitate
- The ongoing Triac Trial II will continue to further establish the effects of early intervention on the neurocognitive development aspects of the disease

#### Egetis intends to submit a marketing authorisation application for Emcitate® to the European Medicines Agency based on existing clinical data

- Egetis concludes, based on recent regulatory interactions, that available Triac Trial I data together
  with recently published long-term data are sufficient for a Marketing Authorisation Application in
  Europe
- Having all clinical data required for regulatory submission already at hand significantly reduces the remaining risk for Emcitate
- Revised submission timelines will be communicated as soon as all parts of the regulatory dossier are confirmed
- Egetis will host a webcast today at 15:00 CET (9:00am ET)

**Stockholm, Sweden, December 13, 2021** - Egetis Therapeutics AB (publ) (Nasdaq Stockholm: EGTX) today announced that after a pre-submission meeting held last week with concerned European regulatory agencies (EMA's Rapporteur and Co-Rapporteur), the Company concludes that the clinical data from the Triac Trial I (Groeneweg et al. 2019), together with the data from long-term treatment with Emcitate (tiratricol) for up to six years in 67 patients (van Geest et al. 2021) will be sufficient for a regulatory review of a Marketing Authorisation Application (MAA) to the European Medicines Agency for the treatment of monocarboxylate transporter 8 (MCT8) deficiency. Thus, all clinical data necessary for regulatory submission is already available. The ongoing Triac Trial II will continue to further establish the effects of early intervention on the neurocognitive development aspects of the disease.

"We are delighted with the outcome of the pre-submission meeting, giving us a clear path to our MAA submission, and subsequent regulatory review, based on existing clinical data. Having all clinical data required for regulatory submission already at hand significantly reduces the remaining risk for Emcitate and could also potentially enable an earlier submission in Europe than we had previously expected. This is a substantial opportunity for us and the European patients suffering from MCT8 deficiency. In parallel, as part of our efforts to make Emcitate available as soon as possible, we continue our dialogues with regulatory authorities in other jurisdictions to obtain their views on the available clinical data and its implications for regulatory submissions" said Nicklas Westerholm, CEO, Egetis Therapeutics. 

## Treatment effects on T3 levels in MCT8-deficiency could provide a basis for marketing approval in the US – NDA targeted in mid 2023

Press release issued Jan 18, 2022

- FDA acknowledges that a treatment effect on T3 levels and the manifestations of chronic thyrotoxicosis in MCT8-deficiency could provide a basis **for marketing approval** also in the US.
- A small, 30-day, placebo-controlled study in 16 treated patients, to be identified primarily through our existing named patient program, will be conducted to verify the results on T3 levels seen in previous clinical trials and publications in a randomized controlled setting.
- An NDA in the US is targeted to be submitted in mid 2023 under the Fast Track Designation.
- A major step towards marketing authorization and increases the likelihood of success for *Emcitate* and the probability to receive a US Rare Pediatric Disease **Priority Review Voucher** (PRV).

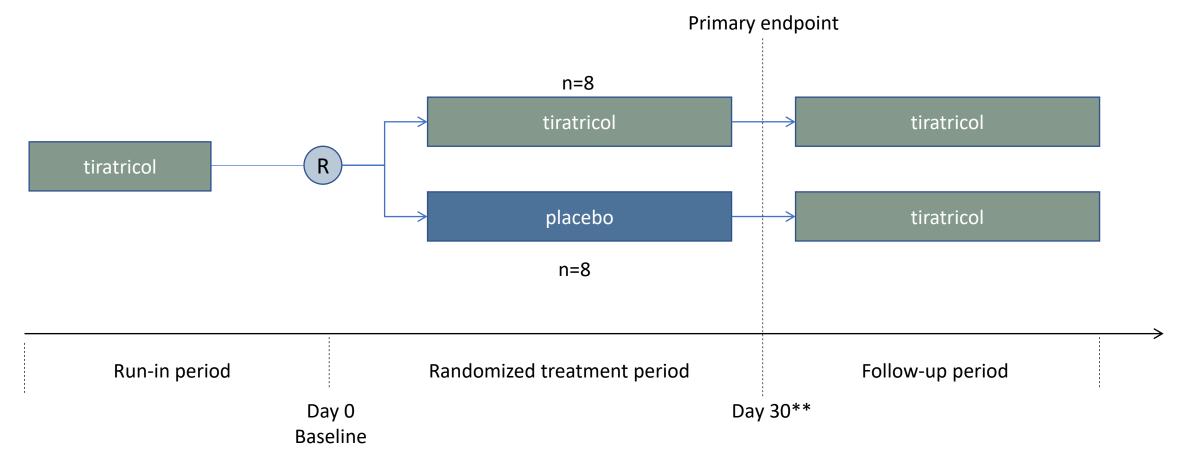
#### Egetis concludes that demonstrating treatment effects on T3 levels in MCT8-deficiency could provide a basis for marketing approval for Emcitate® in the US

- Emcitate® (tiratricol) is the first potential treatment of MCT8 deficiency, a rare genetic disease with high unmet medical need and no available treatment
- In recent positive regulatory interactions, FDA acknowledges that a treatment effect on T3 levels and the manifestations of chronic thyrotoxicosis in MCT8-deficiency could provide a basis for marketing approval also in the US.
- An NDA in the US is targeted to be submitted in mid-2023 under the Fast Track Designation.
- A small, 30-day, placebo-controlled study in 16 treated patients, to be identified through the existing
  named patient program, will be conducted to verify the results on T3 levels seen in previous clinical
  trials and publications in a randomized controlled setting
- This is a major step towards a marketing application and increases the likelihood of success for Emcitate and the probability for Egetis to receive a US Rare Pediatric Disease Priority Review Voucher (PRV).
- Egetis will host a webcast today at 15:00 CET (9:00am ET)

Stockholm, Sweden, January 18, 2022 - Egetis Therapeutics AB (publ) (Nasdaq Stockholm: EGTX) (the "Company") today announced that in recent regulatory interactions, the US Food and Drug Administration (FDA) acknowledges that demonstrating a treatment effect on thyroid hormone T3 levels and the manifestations of chronic thyrotoxicosis could provide a basis for marketing approval also in the US. Consequently, the Company now has an aligned regulatory strategy for EU and US. The Company intends to submit a New Drug Application (NDA) in the US for Emcitate® (tiratricol) for the treatment of monocarboxylate transporter 8 (MCT8) deficiency in mid-2023 under the Fast Track Designation granted by the FDA in October 2021. This follows the announcement in December 2021 of intention to submit the Marketing Authorisation Application (MAA) for Emcitate to the European Medicines Agency (EMA) based on existing clinical data on the manifestations of chronic thyrotoxicosis in MCT8 deficiency.

## **Controlled Study - design**

Primary endpoint: Serum T3 levels, measured as the proportion of patients meeting T3  $\geq$ ULN\* within the randomized treatment period



\* ULN: Upper Limit of Normal

\*\* Randomized treatment period end after 30 days or when rescue criterion (T3  $\geq$ ULN) is met, which ever comes first

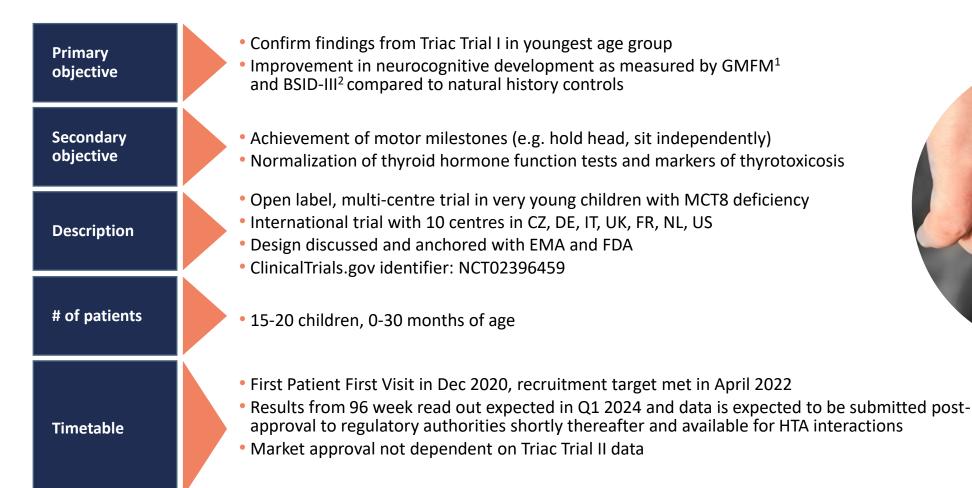
## **Emcitate regulatory pathway to submissions in EU and US**

The first potential treatment for MCT8 deficiency, a rare genetic disease with high unmet medical need and no available treatment

4	ded in MAA in EU ded in NDA in US		To be added post approval when data available
Triac Trial I	EMC cohort study	Natural history Controlled study	Triac Trial II
<ul> <li>Completed 2018 (Groeneweg, 2019)</li> <li>Open-label, international, multi- centre study</li> <li>N= 46</li> </ul>	Geest, 2021) • N= 27 from Triac Trial I	<ul> <li>Retrospective data, 2003 to 2019</li> <li>(Groeneweg, 2020)</li> <li>N= 151</li> <li>Pts from named patient/ compassionate use program</li> </ul>	<ul> <li>Open-label, international, multi-centre study</li> <li>Pts ≤ 30 months of age</li> <li>Focus on neurocognition</li> <li>N= 15-20 planned</li> <li>Full 96 weeks data, expected in Q1 2024</li> </ul>

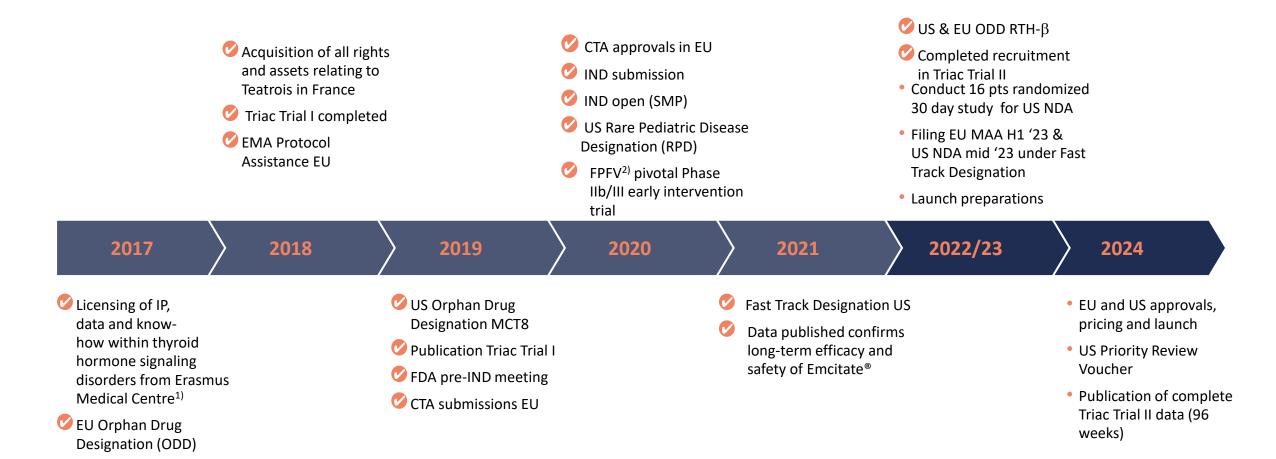
# Triac Trial II fully recruited: to establish effects of early intervention on neurocognitive development

Market approval not dependent on Triac Trial II data





#### **Emcitate® clinical development timeline**

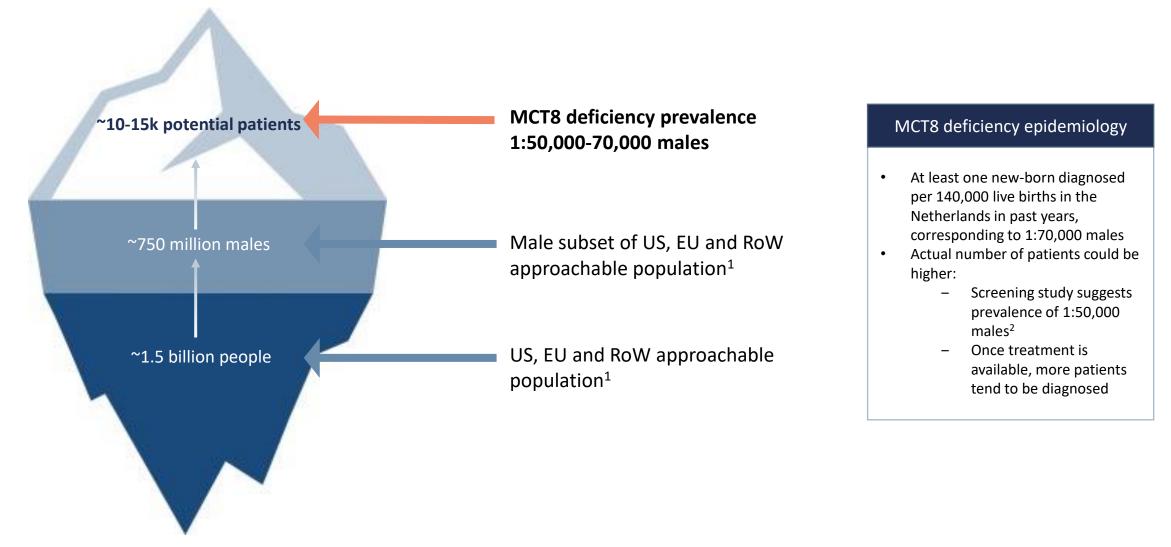


### **2.** Emcitate<sup>®</sup> - Commercial opportunity



#### **Estimating 10-15k addressable patients globally**

No approved treatment for MCT8 deficiency



### **Emcitate®- alleviating patient and societal burden**

Aiming to provide value for both patients and society

MCT8 deficiency is a detrimental condition with significant unmet medical need and no approved therapy

	<ul> <li>Median life-expectancy of MCT8 patients is 35 years<sup>1</sup></li> </ul>				
Patients	<ul> <li>Patients underweight for age or without ability to hold head have an even increased risk of premature death.</li> </ul>				
Society	<ul> <li>All MCT8 patients have significant neurocognitive disability from early childhood and typically require constant, life-long supportive care</li> </ul>				
,	<ul> <li>A recent study in a condition with similar severity (SMA) estimated total healthcare cost (excluding treatment cost) to USD 138k per patient and year<sup>2</sup></li> </ul>				

Enclate 350 micrograms tablets factored

**Emcitate** holds potential to become the **first approved therapy** to address the root cause of MCT8 deficiency, restore thyroid hormone signaling and thereby **prevent disease progression**, alleviate symptoms and **prolong lives** 

Source: (1) Disease characteristics of MCT8 deficiency: an international, retrospective, multicentre cohort study, Groeneweg et al, The Lancet, 2012; (2) Economic burden of spinal muscular atrophy in the United States: a contemporary assessment, Droege et al, Journal of Medical Economics, 2020;

## Supporting diagnosis through disease awareness initiatives

MCT8 deficiency awareness and educational activities launched through various channels

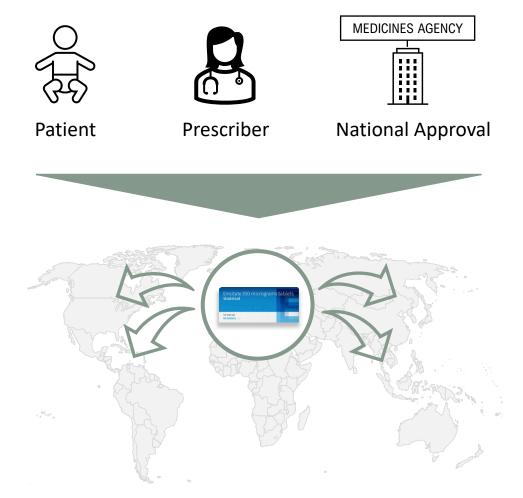
- Disease awareness and educational efforts aim to
  - increase number of physicians who understand how to diagnose and manage MCT8 deficiency
  - speed up diagnosis
- Collaborating with patient advocacy groups and KOLs
- Exhibit at scientific/medical conferences 2022:
  - European Paediatric Neurology Society, April, Glasgow
  - European Thyroid Association, Sept, Brussels
  - European Society of Pediatric Endocrinology, Sept, Rome
  - American Thyroid Association, Annual Meeting, Oct, Montreal
- Several channels for efficient reach
  - mct8deficiency.com
  - Mailings
  - Social media
  - Publications



### **Emcitate supplied globally on a named patient basis**

The named patient use (NPU) confirms the significant unmet medical need in MCT8 deficiency and the view of Emcitate's potential to address it

- NPU and compassionate use programs
  - mechanisms to allow early access to a medicine prior to regulatory marketing approval
  - granted to pharmaceuticals under development for situations with high unmet medical needs and where no available treatment alternatives exist or are suitable
- Emcitate is being supplied on a named patient basis, following individual approval from the national medicines agencies, to
  - more than 150 patients
  - in over 25 countries



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#### Analogue orphan drugs priced at premium

Rapid market penetration with considerable sales already 3rd year in market

- Payers in general accept higher prices for orphan drugs compared to traditional drugs and especially if they;
  - Address an ultra rare disease, e.g. prevalence less than 1:50,000 people
  - Target a **severe** disease, i.e. life threatening/debilitating
  - Provide health gain, rather than just condition stabilization

• Emcitate fulfills these criteria, no other drugs available or being developed for MCT8 deficiency

	<b>Vimizim®</b> Recombinant enzyme	Kalydeco® Small molecule	<b>Spinraza®</b> Antisense oligonucleotide	<b>Brineura®</b> Recombinant enzyme
Disease	MPS IVA	CF with specific mutations	SMA	CLN2
Rarity - less than 1:50,000 people	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Severity – life threatening/debilitating	√	$\checkmark$	$\checkmark$	$\checkmark$
Health gain	× .	$\checkmark$	$\checkmark$	$\checkmark$
Global annual treatment cost	> \$400k	> \$250k	> \$350k	> \$600k
Year of 1st approval	2011	2012	2016	2017
Global sales 3rd year in market	\$354mn	\$464mn	\$1.7bn	\$110m
Global sales 2020	\$544mn	\$803mn	\$2.1bn	\$110m

#### Analogue orphan drugs

### FDA granted Rare Pediatric Disease designation to Emcitate®

US Rare Pediatric Disease Priority Review Voucher (PRV) provides a ~\$100m opportunity

#### **Overview PRV**

- The FDA grants Rare Pediatric Disease designation (RPD) to therapies for serious or life-threatening diseases affecting fewer than 200,000 people in the USA.
- Sponsors holding a RPD can apply to receive a US Rare Pediatric Disease Priority Review Voucher (PRV) up on approval.
- PRV program recently prolonged until FY 2026
- Provides accelerated FDA review of a new drug application for another drug candidate, in any indication, shortening time to market in the US.
- The voucher may be sold or transferred to another sponsor.
- By end 2019 22 PRVs for rare pediatric diseases had been awarded by FDA, 12 were sold with individual voucher sale prices ranging from \$67m to \$350m.

#### **Examples of PRVs sold**

Seller	Buyer	Value	Year
Bavarian Nordics	Undisclosed	\$95M	2019
SOBI	AstraZeneca	\$95M	2019
Bayer Healthcare	argenx	\$100M	2020
Lumos Pharma	Merck	\$100M	2020
Sarepta Therapeutics	Gilead	\$125M	2020
Albireo	Undisclosed	\$105M	2021
BioMarin	Undisclosed	\$110M	2022

#### **3.** Aladote<sup>®</sup> - clinical development program

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## Paracetamol/acetaminophen poisoning

- no adequate treatment for increased-risk patients

What is paracetamol/ acetaminophen poisoning?

How many does it affect?

Why is current treatment inadequate?

A new standard of care is needed

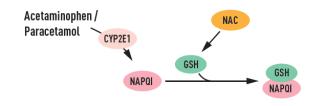
- Minimum toxic dose of paracetamol/acetaminophen in adults is only 7.5g
- Risk factors include malnutrition, alcoholism and consumption of other medications
- Paracetamol/acetaminophen poisoning can lead to acute liver failure, liver transplant or death
- **19 billion** units of paracetamol /acetaminophen packages are sold in the US alone every year
- >175,000 patients hospitalised globally per annum driven by 89,000 cases/year of paracetamol overdose in the US and 105,000 cases/year in the UK (~ 50% hospitalised)
- ~50% of paracetamol overdose cases are unintentional
- Efficacy of current NAC (N-acetylcysteine) treatment decreases with time
- Approximately 25% of patients are late arrivals to hospitals (>8h) late arrivals are at increased risk
- There is no effective treatment option for patients at increased risk
- Aladote<sup>®</sup> aims to become a new standard of care for patients with increased risk for liver injury in combination with NAC

#### **Orphan drug candidate**

with clear scientific and mechanistic rationale

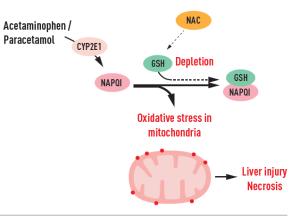
Early presenters (<8h) NAC treatment effective against liver injury

 Liver glutathione (GSH) replenished by NAC, toxic NAPQI metabolite excreted as GSH conjugate

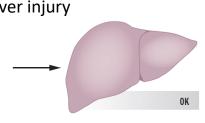


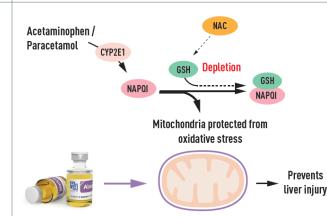
Late presenters (>8h) are at increased-risk for liver injury NAC treatment + Aladote<sup>®</sup> to prevent liver injury

Under NAC treatment alone liver GSH stores depleted by the toxic NAPQI metabolite -> oxidative stress, mitochondrial dysfunction and liver injury (necrosis)



 In most cases NAC effectively prevents liver injury i.e. limited need for Aladote<sup>®</sup>



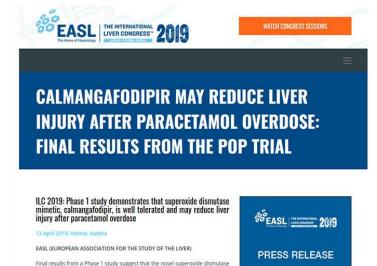


 Aladote<sup>®</sup> (calmangafodipir) prevents ROS and RNS formation, restores mitochondrial energy production and prevents liver injury

## **Overview of completed Phase Ib/IIa**

Primary objective and	<ul> <li>Met primary endpoint of safety tolerability in the combination of Aladote<sup>®</sup> and NAC</li> <li>Results presented at the 58th Annual Meeting of the Society of Toxicology, EASL ILC in April, Vienna and published in Lancet's journal EBioMedicine in 2019</li> </ul>	Elisittedidae 46 (2019) 423-430 Contents lists available at ScienceDirect EBioMedicine journal homepage: www.ebiomedicine.com
results	<ul> <li>Presented at, American College of Medical Toxicology (ACMT) and Society of Toxicology (SOT), as novel emerging treatments for acetaminophen/ paracetamol toxicity in 2021</li> </ul>	Principal results of a randomised open label exploratory tolerability study with calmangafodipir in patients treat regimen of N-acetylcysteine for paracetamol overdose ( Emma E. Morrison <sup>a</sup> , Katherine Oatey <sup>b</sup> , Bernadette Gallagher <sup>c</sup> , Julia Gra Polly Black <sup>c</sup> , Wina Oosthuyzen <sup>a</sup> , Robert J. Lee <sup>b</sup> , Christopher J. Weir <sup>b</sup> , T On behalf of the POP Trial Investigators <sup>1</sup>
Secondary	• Measurements of Alanine transaminase (ALT), international normalised ratio	* Pharmacelogy, Theraperatics and Traincings Uhit, Centre for Cardiovascular Science, University of Edinburgh, UK * Edinburgh Carlied Train Univ. IK * Emergency Moderne Research Comp. Royal Informary of Edinburgh, UK * PleedTharma AR, Sockholm, Sweden
objectives and results	(INR), keratin-18, caspase-cleaved keratin-18 (ccK18) and microRNA-122 (mir122) and glutamate dehydrogenase (GLDH) indicates that Aladote <sup>®</sup> reduce liver injury	EASL THE INTERNATIONAL LIVER CONGRESS 2019
Description	• An open label, rising-dose, randomized study exploring safety and tolerability of Aladote <sup>®</sup> co-treatment with NAC	CALMANGAFODIPIR MAY REDI
·	ClinicalTrials.gov identifier: NCT03177395	INJURY AFTER PARACETAMOL
# of patients	<ul> <li>Single ascending dose study in 3 dosing cohorts of 8 patients (N=24)</li> </ul>	FINAL RESULTS FROM THE PO
	as add-on to NAC regime	ILC 2019: Phase 1 study demonstrates that superoxide dismutase
		mimetic, calmangafodipir, is well tolerated and may reduce liver injury after paracetamol overdose
Timetable	<ul> <li>Initiated in June 2017 (first patient in)</li> </ul>	EASL (EUROPEAN ASSOCIATION FOR THE STUDY OF THE LIVER)
	Completed in September 2018	Final results from a Phase 1 study suggest that the novel superoxide dismutase mimetic, calmangafodipir, is well tolerated and may reduce liver injury after





## **Positive proof-of-principle Phase Ib/IIa results**

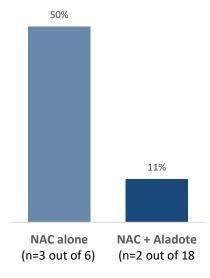
Indicates that Aladote may reduce liver injury

#### Safety & tolerability

Event	NAC alone	NAC + 2 μmol/kg Aladote	NAC + 5 μmol/kg Aladote	NAC + 10 μmol/kg Aladote
Any AE	6 (100%)	6 (100%)	6 (100%)	6 (100%)
Any SAE	2 (33%)	4 (67%)	2 (33%)	3 (50%)
SAE Starting within 7 days	1 (17%)	1 (17%)	1 (17%)	2 (33%)

Event	NAC alone	NAC + 2 µmol/kg Aladote	NAC + 5 µmol/kg Aladote	NAC + 10 μmol/kg Aladote	
50% ALT increase	2 (33%)	0 (0%)	0 (0%)	1 (17%)	
100% ALT increase	1 (17%)	0 (0%)	0 (0%)	1 (17%)	
ALT >100 U/L at 10 hours	2 (33%)	0 (0%)	0 (0%)	0 (0%)	
ALT >100 U/L at 20 hours	2 (33%)	0 (0%)	0 (0%)	0 (0%)	

% of patients needing additional NAC infusions after planned 12h NAC infusion

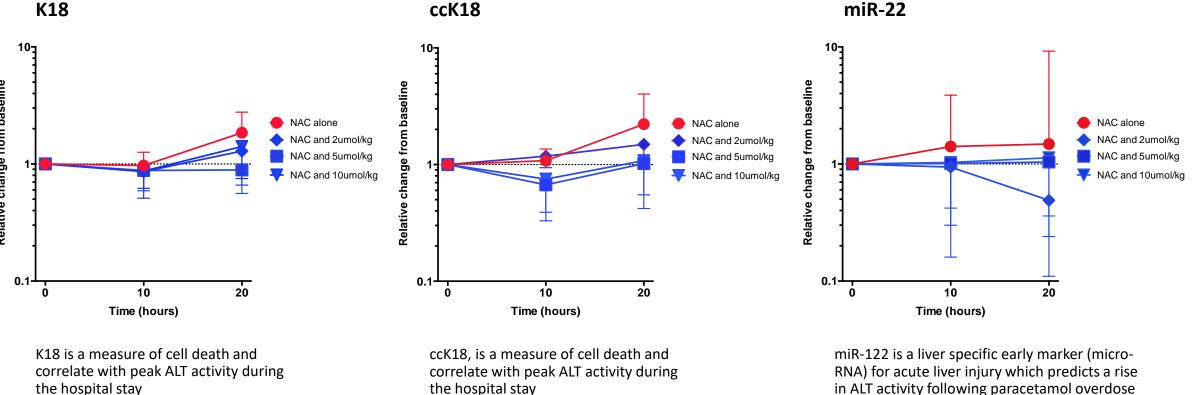


- Met primary endpoint of safety tolerability in the combination of Aladote<sup>®</sup> and NAC
- No AE or SAE probably or definitely related to Aladote<sup>®</sup>

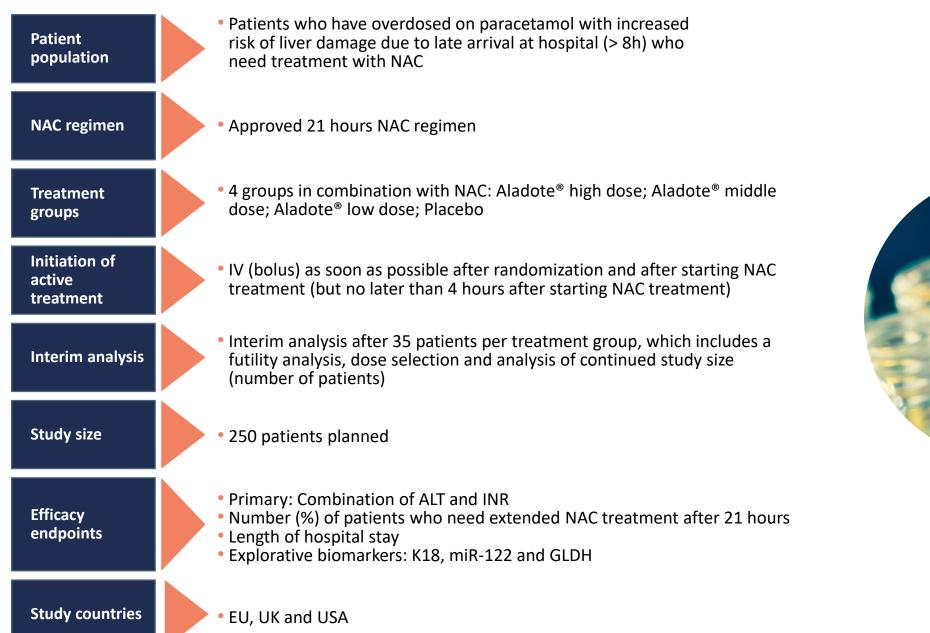
#### ALT >100 U/L is the indication to stay in hospital

Note: (1) Alanine transaminase (ALT) is a transaminase enzyme also called alanine aminotransferase (ALAT). ALT is found in plasma and in various body tissues especially the liver's hepatocytes. Serum ALT is commonly measured clinically as part of a diagnostic evaluation of hepatocellular injury, to determine liver health

## Aladote<sup>®</sup> demonstrates consistent results of reduced liver injury as measured by exploratory biomarkers

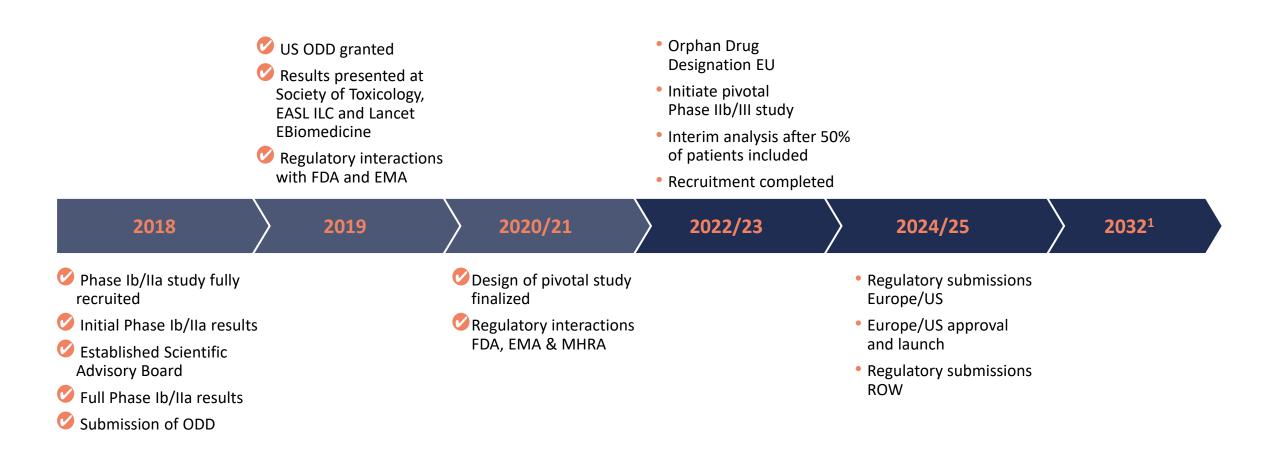


## **Pivotal Phase IIb/III study for US/EU regulatory submission**





## **Aladote® clinical development timeline**



## **3.** Aladote<sup>®</sup> - Commercial opportunity



## Europe 89,000 cases/year of paracetamol overdose in the US and 105,000 cases/year in the UK

- ~50% hospitalized and receive i.v. antidote treatment
- ~25% are late arrivals

**POD epidemiology** 

Global paracetamol/acetaminophen exposure varies, leading to POD incidence being different between countries

43

## Estimating at least 175k addressable patients globally

Annual number of POD (paracetamol/acetaminophen overdose) cases hospitalized and receiving i.v. antidote (NAC currently the only option)



## Aladote®- alleviating patient and societal burden

Aiming to provide value for both patients and society

POD is a life threatening condition with remaining medical needs

#### Patients

Society

- POD (paracetamol/acetaminophen overdose) can lead to acute liver failure, liver transplant or death
- In US and UK together, yearly > 500 deaths due to POD and more people registered for liver transplantation
- In the US the annual cost in 2010 was estimated at > \$1bn to treat patients with POD<sup>1</sup>
- The POD Emergency Department and inpatient cost is approximately USD 13-40k<sup>1</sup>

## • The average POD inpatient length of stay is 3.1 days with a variance of +4.4 days for the most severe cases<sup>1</sup>

• US liver transplant costs USD 125-473k<sup>1</sup>



With **Aladote**, the ambition is to **reduce hepatic injury** of POD and thereby contribute to **fewer hospitalization days**, **prevent need** for liver transplantation and **increase survival** 

## Analogue antidotes priced at \$ 3.5k - 50k

National emergency hospital stocking guidelines - opportunity for rapid market penetration

- Various antidotes, e.g. vs. drug overdosing, metal poisoning, snake bites and reversal of anticoagulant treatment effects
- Limit morbidity/mortality when used within appropriate time
- National recommendations for stocking of antidotes at hospitals providing emergency care
  - For getting payer/formulary committee acceptance to be stocked, antidotes are in general priced lower than traditional orphan drugs, despite
     often having orphan status
  - Getting included provides great opportunity for rapid market penetration
    - Praxbind stocked in 3,200 US hospitals < 3 years from launch
    - Andexxa sales \$112mn in US alone second year on market
- Analogue antidotes for comparable settings as Aladote have global average costs of \$ 3.5k 50k per treatment

	Naloxone hydrocloride	Praxbind	Andexxa/Ondexxya	Aladote (target profile)
Year of first approval	1971	2015	2018	NA
Poisoning indication	Opioid toxicity	Reversal of anticoagulant effects of the NOAC dabigatran	Reversal of anticoagulant effects of the factor Xa inhibitors apixaban & rivaroxaban	Paracetamol/ acetaminophen toxicity
Cost per treatment	Low since generic	\$ 3.5k – 4.5k	\$ 25k – 50k	TBD

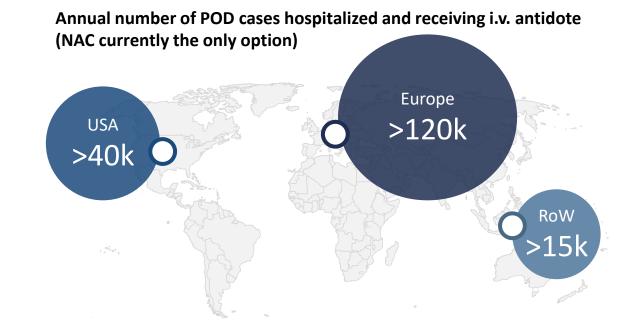
## **Aladote® commercial opportunity**

- Addressing unmet needs in antidote market create substantial opportunity

- POD is a life-threatening condition with remaining medical needs
- No effective treatments for high-risk patients, e.g. patients arriving > 8h after ingestion
- No other companies developing drugs for POD
- Opportunity for rapid sales uptake due to national emergency hospital stocking guidelines

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• Anologue antidotes priced at \$3.5k – 50k



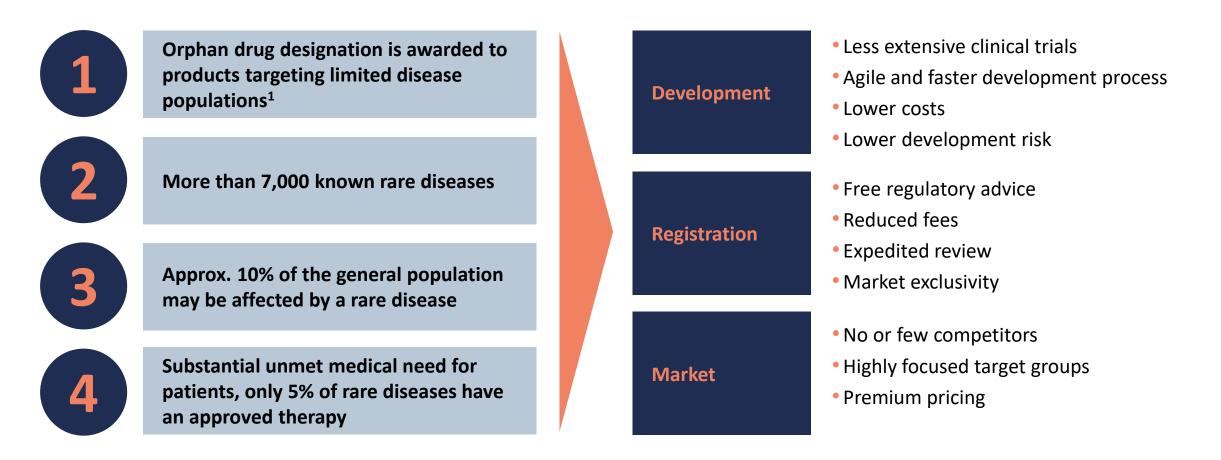
#### >\$350mn annual sales opportunity assuming:

- Global average annual treatment cost per patient: \$5k
- Addressable patients: >175,000
- Market penetration: 40%

## **4.** The orphan drug segment and path to market



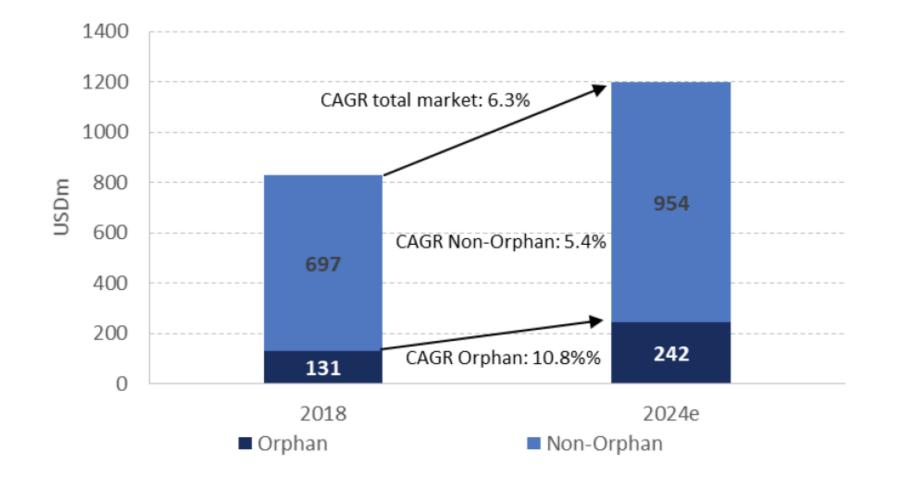
## **Orphan drug segment – a highly attractive opportunity**



Well-defined patient populations with substantial unmet medical need

## CAGR estimates of total pharmaceutical market vs orphan

The global orphan or rare disease market size was valued at an estimated USD 140 – 150 bn and is expected to grow at 10-14% CAGR over the coming five years.



## **Commercialisation of** *Emcitate* & *Aladote*

Commercial infrastructure build up initiated

#### Strong success factors...



... for sustainable, profitable & lean commercialisation

- Building inhouse commercial capabilities for launch of Emcitate<sup>®</sup> and Aladote<sup>®</sup> in EU and US
- Small and focused footprint with an estimated < 50 FTEs considered sufficient for both assets
- Retain larger share of product revenues over time within Company
- **Commercialisation** in other territories through **partners**

**5.** Summary

## Two highly promising orphan drug candidates

Emcitate<sup>®</sup> – Therapy for genetic disturbance in thyroid hormone signaling with life-long severe disability

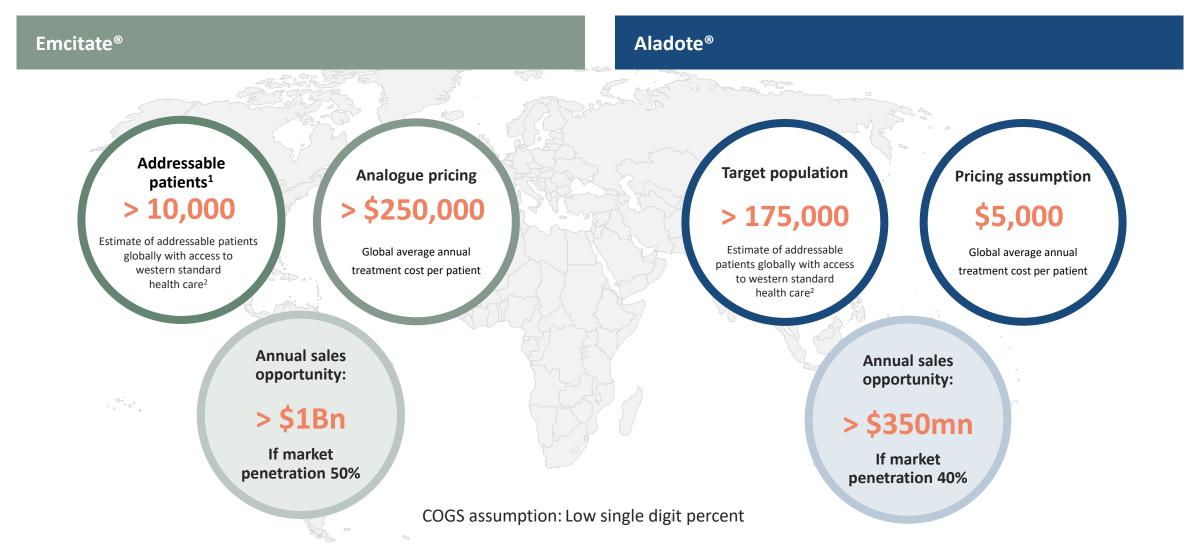
- Lead candidate for addressing MCT8 deficiency which affects ~1:70,000 males, a condition with high unmet medical need and no available treatment. No competing sponsored products in clinical development
- Obtained Orphan drug designation in the EU and US 2017 and 2019, respectively. US Rare Pediatric Disease Designation received in Nov 2020, eligible for Priority Review Voucher. Fast track designation granted by FDA in Oct 2021
- Triac Trial I (Phase IIb) completed with **significant** and **clinically** relevant effects on **T3 levels** and the manifestations of **chronic thyrotoxicosis**
- Real-world data published in Oct 2021 confirms long-term efficacy and safety of Emcitate<sup>®</sup> in MCT8 deficiency patients
- Intend to submit MAA to EMA based on existing clinical data in H1 2023
- Intend to NDA submission in mid 2023 based on treatment effect on T3 levels and the manifestations of chronic thyrotoxicosis in MCT8deficiency. A placebo-controlled study in 16 treated patients will be conducted to verify the results on T3
- Triac Trial II fully recruited; to establish the effects of early intervention on neurocognitive development, previously seen in the Triac Trial I. Results are expected in Q1 2024
- More than 150 patients are being treated with Emcitate on a named patient basis, following individual regulatory approvals from the national regulatory agencies

Aladote<sup>®</sup> – Prevents acute liver injury caused by paracetamol/acetaminophen poisoning

- Paracetamol poisoning is one of the most common overdoses with >175,000 hospital admissions globally per annum
- No adequate treatment exists for increased risk patients
- Orphan drug designation (ODD) granted in 2019 in the US
- Ongoing dialogue with EMA on the appropriate scope of the indication for an ODD in the EU
- Successful results from Phase Ib/IIa study in paracetamol overdosed patients
- Pivotal Phase IIb/III study planned for marketing authorization application in both US and EU, targeting study start in 2022
- No competing products in clinical development

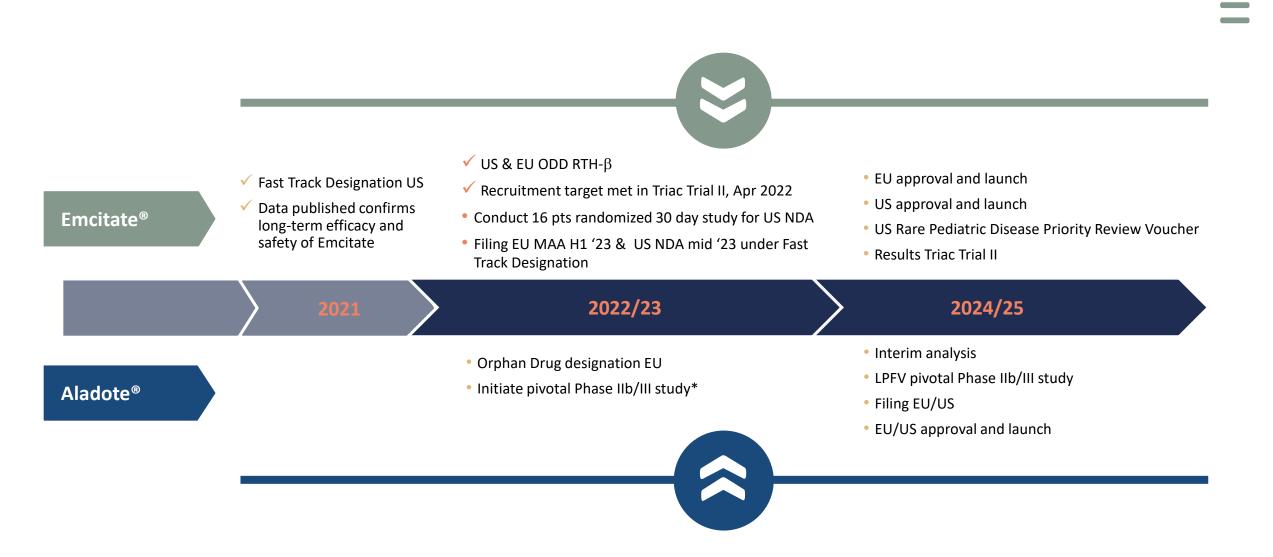
## Late-stage orphan drug pipeline, \$1Bn+ annual sales opportunity =

Analogue benchmarks indicate substantial market potential



Source: (1) 1:70,000 males. Visser et al, Clinical Endocrinology 2012; (2) US, EU and RoW approachable population including Australia, Canada, Japan, Russia, Switzerland, South Korea and Turkey; Note: Royalties of 10% on Emcitate® net sales to Erasmus Medical Centre and Royalties of 3% on Emcitate® net sales to RTT owners

## **Upcoming pipeline milestones**



# An integrated orphan drug company, focusing on late-stage development for commercialization



Dedicated orphan drug development company with two late-stage orphan drug assets: **Emcitate**<sup>®</sup> and **Aladote**<sup>®</sup>

Target MAA/NDA submissions for Emcitate in 2023 and for Aladote in 2024/2025



Highly attractive **orphan drug segment** with potential **>\$1Bn annual sales opportunity** 



Plan to **launch** through niche inhouse commercial organization in the EU and US



Combined core expertise in **late-stage orphan clinical development, registration and commercialization** with experience from: SODI EXERCISE Medical Need UNIVARIES AstraZeneca



Listed on NASDAQ Stockholm (EGTX) HQ in Stockholm, Sweden





## Leadership team



#### Nicklas Westerholm

#### CEO

- Took office in June 2017 and has previously worked in the AstraZeneca Group since 1995 in several global roles in various business areas, most recently as VP Project & Portfolio Management. Prior Nicklas has held positions such as Executive Officer & VP Japan Operations, Director Investor Relations, Head of Global API Supply and Head of Development Manufacture. He has studied Analytical and Organic Chemistry at Stockholm University and Chemical Engineering at KTH, as well as studies at University of Warwick. INSEAD and Harvard Business School.
- Ownership: 109,873 shares and 2,400,000 employee stock options



#### Yilmaz Mahshid

#### CFO

- Yilmaz has experience from different senior positions in the life science sector, including Investment Manager & Controller at Industrifonden, and CFO at PledPharma between 2017 and 2020, as well as healthcare analyst at Pareto Securities and Öhman Fondkommission. Prior to joining Egetis Therapeutics, Yilmaz was CEO of the listed biotech company Medivir. Yilmaz also has a solid academic background with a PhD from the Department of Medical Biochemistry and Biophysics at Karolinska Institutet, Stockholm.
- Ownership: 191,000 shares and 1,150,000 employee stock options



#### Henrik Krook

#### **VP** Commercial Operations

- Appointed VP Commercial Operations in December 2020. He has a broad experience from over 15 years in commercial leadership settings, including both big pharma and biotechs. He has previously held senior corporate and commercial advisory roles for biotech companies such as Affibody and senior managerial positions at e g Alexion, Novartis and Roche. Henrik has a PhD in immunology from Uppsala University and an Executive MBA from Stockholm School of Economics.
- Ownership: 170,000 shares and 1,150,000 employee stock options



#### Kristina Sjöblom Nygren СМО

- Took office in May 2020 and has previously worked as CMO and Head of Development at Santhera, where she oversaw activities in late-stage clinical development, registration, post-approval commitments and managed accessprograms within rare diseases in different therapeutic areas. Previously, Kristina spent 18 years at SOBI, Wyeth and AstraZeneca, where she held a number of senior positions. She has been involved in many different interactions with regulatory bodies such as the US FDA and the EMA including scientific advice and orphan drug applications. Before joining the industry, she worked as a licensed physician in several clinical positions. She holds a Diploma in Pharmaceutical Medicine, and an MD from the Karolinska Institute, Stockholm.
- Ownership: 6,000 shares and 650,000 employee stock options

#### Christian Sonesson

#### VP Product Strategy & Development

- Appointed VP Product Strategy & Development in August 2017 following 13 years at Astra Zeneca. He has broad experience within drug development, including successfully leading products during Phase 3 (FORXIGA® in type 1 diabetes) and of regulatory submissions and defense, bringing new drug candidates to market in different regions (e.g. FORXIGA® in type 2 diabetes, MOVANTIK®, ONGLYZA®-SAVOR, BRILINTA<sup>®</sup>-PEGASUS and QTERN<sup>®</sup>). PhD in Biostatistics from Gothenburg University and an Executive MBA from Stockholm School of Economics.
- Ownership: 12,000 shares and 1,150,000 employee stock options

#### Karl Hård

#### VP, Head of Investor Relations & Communications

- Appointed in February 2022. He has 25 years experience within the pharma and biotech sector, incl. 10 years in R&D and 9 years in Investor Relations at AstraZeneca, latterly as VP Investor Relations. Previously, Head of IR and Communications at Kiadis Pharma (The Netherlands) and Redx Pharma (UK). PhD in Bio-organic Chemistry from Utrecht University. Former Assistant Professor of Chemistry at Leiden University.
- Ownership: 0 shares and 100,000 employee stock options





## **Board of directors**



#### Thomas Lönngren

#### Chairman of the board

- Board member since: 2021
- MSc in social and regulatory pharmacy and a degree in Pharmacy, University of Uppsala.
- Other assignments: Board member at Compass Pathsways PLC and NDA group. Director at own company PharmaExec Consulting AB. Advisor to NDA group, Artis Venture, Baren Therapeutics, Centre for Innovation in Regulatory Science (CIRS) and ScientificMed AB. Faculty member of GLG Institute
- Ownership: 165,219 shares



#### **Mats Blom**

#### Board member

- Board member since: 2021
- BA, Business Administration and Economics, University of Lund and MBA, IESE University of Navarra.
- Other assignments: CFO NorthSea Therapeutics and Board member of Hansa Biopharma and Auris Medical
- Ownership: 2,257,512 shares



#### Peder Walberg

#### Board member

- Founder and CEO of Rare Thyroid Therapeutics
- MD and BSc in international economy and business administration, Uppsala University
- Other assignments: Board Member of Immedica Pharma AB,
- Previous assignments: Founder and CEO, Medical Need, Head of Business Development and Strategy, Swedish Orphan International and SOBI. BoD of Wilson Therapeutics and identified Decuprate for treatment of Wilson disease
- Ownership: 31,858,414 shares (through Cetoros AB)



#### Gunilla Osswald

#### Board member

- Board member since: 2017
- Ph.D. in biopharmacy and pharmacokinetics
- Other assignments: CEO BioArctic AB
- Ownership: -



#### Elisabeth Svanberg Board member

- Board member since: 2017
- MD, Ph.D., Assoc Professor in surgery
- Other assignments: Chief Development Officer Ixaltis SA. Board member Swedish Orphan Biovitrum (SOBI), Amolyt Pharma and Galapagos
- Ownership: -

## **Share Register and Market Cap**

## Shareholders

Source: Monitor by Modular Finance. Compiled and processed data from various sources, including Euroclear, Morningstar and the Swedish Financial Supervisory Authority (Finansinspektionen). The verification date may vary for certain shareholders.

#### **10 largest shareholders**

Name	Capital	Votes	Num. of shares	Verified
Peder Walberg	19.30%	19.30%	31 858 414	2021-12-31
Peter Lindell	10.37%	10.37%	17 124 820	2021-12-31
Avla Holding AB	10.04%	10.04%	16 572 442	2021-12-31
Fjärde AP-fonden	8.67%	8.67%	14 311 300	2021-12-31
RegulaPharm AB	5.97%	5.97%	9 846 730	2021-12-31
Avanza Pension	2.67%	2.67%	4 406 802	2021-12-31
Thomas Eldered	1.79%	1.79%	2 953 462	2021-09-30
Carl Rosvall	1.64%	1.64%	2 707 914	2021-12-31
Mats Blom	1.37%	1.37%	2 257 512	2021-09-30
Unionen	1.28%	1.28%	2 120 165	2021-12-31
Total 10	63.10%	63.10%	104 159 561	
Total number of owners	6,895			2021-12-31
Total number of shares	165,068,560			2021-12-31

- Cash position: SEK 107M (~EUR 11M)\*
- Number of outstanding shares: 165M
- MCap: ~SEK 800M\*\*
- Listing venue: Nasdaq Stockholm Main Market

Source: Monitor by Modular Finance. Compiled and processed data from various sources, including Euroclear, Morningstar and the Swedish Financial Supervisory Authority (Finansinspektionen). The verification date may vary for certain shareholders \* At March 31, 2022 (Q1 2022 report); \*\* May 12, 2022

# Egetis Therapeutics resolves on a fully guaranteed preferential rights issue of approximately SEK 180 million

Announced March 21, 2022

- To finance the preparations for regulatory submissions for market approval in EU and US, initiate the establishment of the Company's commercial infrastructure in Europe and US for Emcitate<sup>®</sup> and pre-launch activities, as well as general corporate purposes, in addition to providing financial flexibility
- Existing shareholders, including Cetoros AB (Peder W), Cidro Förvaltning AB (Peter L), Avla Holding AB (Kennet R), Fjärde APfonden, RegulaPharm AB (Gudrun H), Flerie Invest AB (Thomas E) and Unionen, as well as members of management and the Board of Directors, have undertaken to subscribe for shares representing approximately 39.3 percent of the Rights Issue
- The Company further strengthens its specialist investor base. New investors, including Linc AB, as well as existing shareholder Flerie Invest AB and members of management and the Board of Directors, have undertaken to subscribe for shares representing approximately 27.8 percent of the Rights Issue through assuming subscription rights of select existing shareholders free of cost
- In total, subscription undertakings represent approximately 67.2 percent of the Rights Issue, corresponding to approximately SEK 121.4 million.
- A consortium of existing shareholders, including Fjärde AP-fonden and members of management, as well as the new investor Linc AB, have undertaken to guarantee approximately 32.8 percent of the Rights Issue, corresponding to approximately SEK 59.4 million. Consequently, the Rights Issue is secured in its entirety.
- Approved at an extraordinary general meeting, on April 13, 2022



### Acquisition of Rare Thyroid Therapeutics on 5 November 2020

## The combination will drive synergies

PledPharma and Rare Thyroid Therapeutics merged to launch a new company

# PedPharma

#### PledPharma

- Team with profound late-stage drug development experience and strong trackrecord
- Listing on Nasdaq Stockholm provides access to public markets and capital as well as visibility
- Desired prospective partner in project collaborations. Previous major license agreement with Solasia
- Efficient internal organisation and strong corporate governance

#### **Rare Thyroid Therapeutics**

- Team with strong track-record of identifying and developing ODDs and creating shareholder value
- Strong network of external project advisors with specialist knowledge. Collaboration with Erasmus Medical Center in Rotterdam
- Founding team with experience from international launch and commercialisation of orphan drugs

#### Synergistic orphan drug focus

2020 accelerated PledPharma's strategic review

- Lead asset Aladote<sup>®</sup> facilitates the new pronounced strategic focus on orphan drug segment
- Emcitate<sup>®</sup> and RTT's capabilities fit well with the new strategy
- Build critical mass, generate synergies and improve operational effectiveness for projects in the orphan segment
- Size, vicinity and complementary capabilities allow for a fast and smooth integration

## The acquisition and rights issue

Institutional investor base broadened

#### Acquisition

#### Rights issue

- On 5 November 2020, PledPharma acquired all outstanding common shares in Rare Thyroid Therapeutics
- Consideration consisted of a combination of PledPharma common shares and cash
- An upfront cash payment of SEK 60m
- 63.8 million shares representing approx
   39% of the total number of outstanding
   shares in PledPharma post rights issues
- Owners of Rare Thyroid Therapeutics will receive a royalty of 3% of net sales generated through Emcitate<sup>®1</sup>
- Owners of Rare Thyroid Therapeutics will also be granted 50% of the net proceeds from a potential sale of US Rare Pediatric Disease Priority Review Voucher related to Emcitate<sup>®</sup>

- Successfully raised SEK 250 million in oversubscribed rights issue (c. SEK 200m) and utilized overallotment option (c. SEK 50m)
- Subscription price of SEK 5.25 per share corresponding to a 2.5 percent premium to close 2 October 2020
- Institutional investor base broadened
- Overallotment Option, allocated to the Fourth Swedish National Pension Fund ("AP4"), NYIP (Nyenburgh Holding BV) and Nordic Cross
- The proceeds will be used to finance: (i) the development of Emcitate<sup>®</sup> and Aladote<sup>®</sup> to market approval in Europe and USA (60%); (ii) initial commercial preparations (20%); (iii) general corporate purposes and financial flexibility (20%)

## EG∃TIS TH∃RAPEUTICS



## Thank you!

Egetis Therapeutics egetis.com