



Corporate Presentation

May 2017

NASDAQ: CAPN

www.capnia.com

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Highlights

**Capnia and
Essentialis
Merger**

**Creating a rare
disease
therapeutics
company**

Initial focus on PWS, a
high unmet need
indication with no
approved treatments

Merger completed

**New Lead Asset
DCCR**

**Compelling
product profile**

Addresses hallmark
symptoms of PWS,
including hyperphagia

Phase II/III ready

Established, decades-
long safety profile

Strong IP

**Well-Financed
Through Key
Milestones**

**Financing
concurrent with
completed
merger**

Adequate to advance
DCCR through top-
line data

**Strong
Leadership**

**Highly
experienced
management
team**

Expertise in drug
development for rare
and orphan diseases

**Longer-Term
Pipeline
Opportunities**

**Multiple
downstream
orphan indications**

Hypothalamic obesity,
Smith-Magenis
syndrome

Leadership Team

- ▶ **Anish Bhatnagar, M.D.**
Chief Executive Officer
- ▶ **David O'Toole**
Senior VP, Chief Financial Officer
- ▶ **Neil Cowen, Ph.D.**
Senior VP of Drug Development
- ▶ **Kristen Yen, M.S.**
VP of Clinical Operations
- ▶ **Patricia Hirano, M.P.H.**
Regulatory Affairs



Essentialis



Prader-Willi Syndrome (PWS)

- ▶ Complex genetic neurobehavioral/metabolic disorder due to the loss or lack of expression of a set of genes on chromosome 15
- ▶ Afflicts about 1:15,000-1:25,000 individuals
- ▶ Elevated mortality rates
- ▶ Highest unmet needs
 - hyperphagia
 - aggressive behaviors
 - body composition
- ▶ PWS families have low QOL - normal siblings show high rates of PTSD



***“Addressing these behavioral needs
will be life-changing for PWS families”***

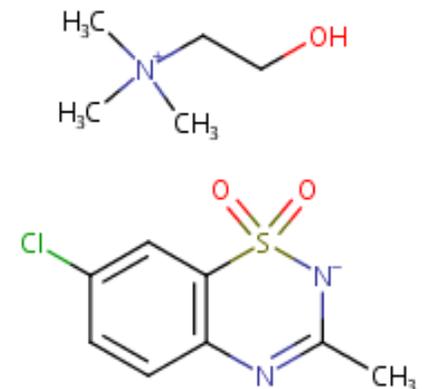
- Dr. Jennifer Miller, University of Florida

Diazoxide – Long History of Safe Use

DCCR – Extensive Pre-Clinical and Clinical Data

- ▶ Diazoxide I.V., Oral suspension and Capsule
 - K_{ATP} channel agonist approved in 1976
 - Previously used as IV treatment for malignant hypertension
 - BID/TID oral suspension for the treatment of hypoglycemia due to hyperinsulinism in infants, children and adults - remains global standard of care
- ▶ Diazoxide Choline Controlled-Release (DCCR) Tablet
 - QD tablet formulation of choline salt of diazoxide
 - Characterized in 5 Phase I and 3 Phase II studies in obese, dyslipidemic and PWS subjects
 - More than 210 treated subjects
 - Protected by multiple issued patents, including composition of matter

Diazoxide Choline

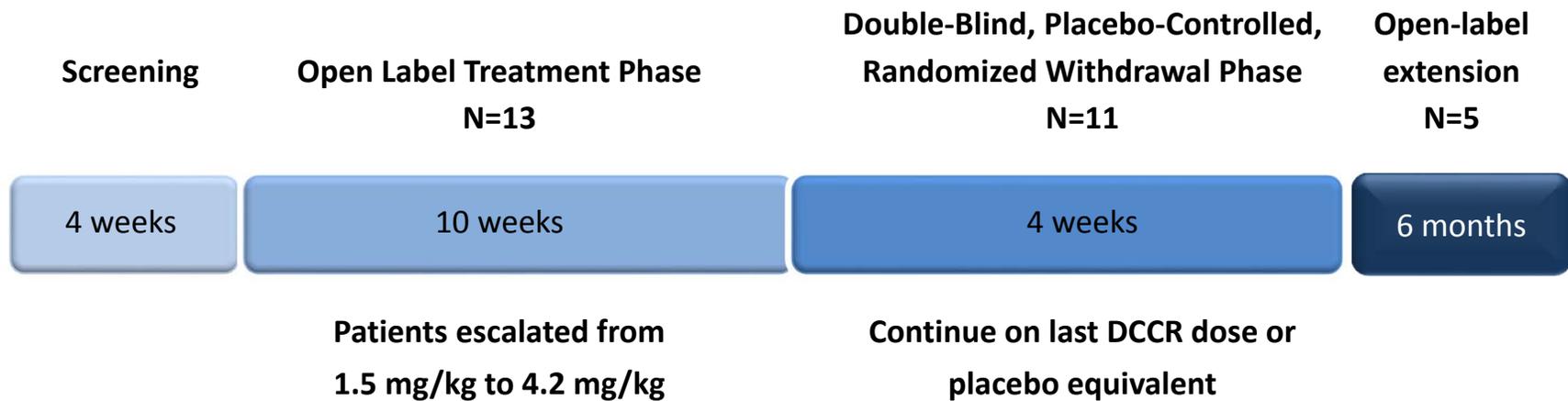


Mechanism of Action

- ▶ Appetite controlled by 2 sets of neurons in the hypothalamus
 - NPY/AgRP – secrete NPY and AgRP, appetite stimulatory neuropeptides
 - POMC – secretes POMC, an appetite suppressive neuropeptide
 - Express K_{ATP} channels
- ▶ NPY expression is markedly elevated in PWS
 - Loss of SNORD116 in the PWS critical region on chromosome 15
 - Results in hyperphagia
- ▶ Treatment with DCCR
 - Agonizes K_{ATP} channels in NPY/AgRP neurons
 - Reduces secretion of NPY
 - Reduces hyperphagia

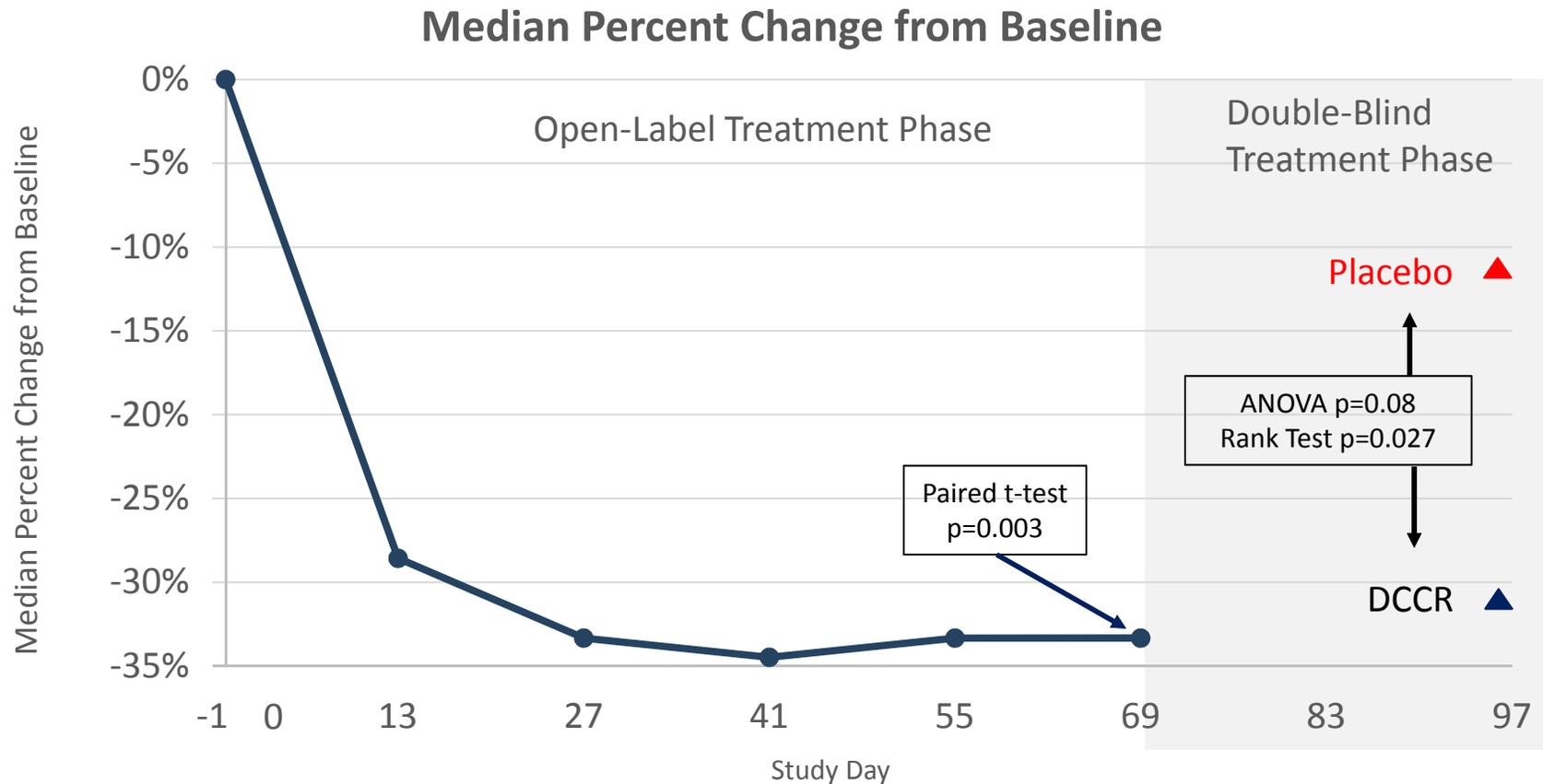
PC025 Pilot Study in PWS

- ▶ Randomized, Withdrawal, Single Center Trial of DCCR in overweight or obese, genetically-confirmed PWS patients between 10 and 22 years



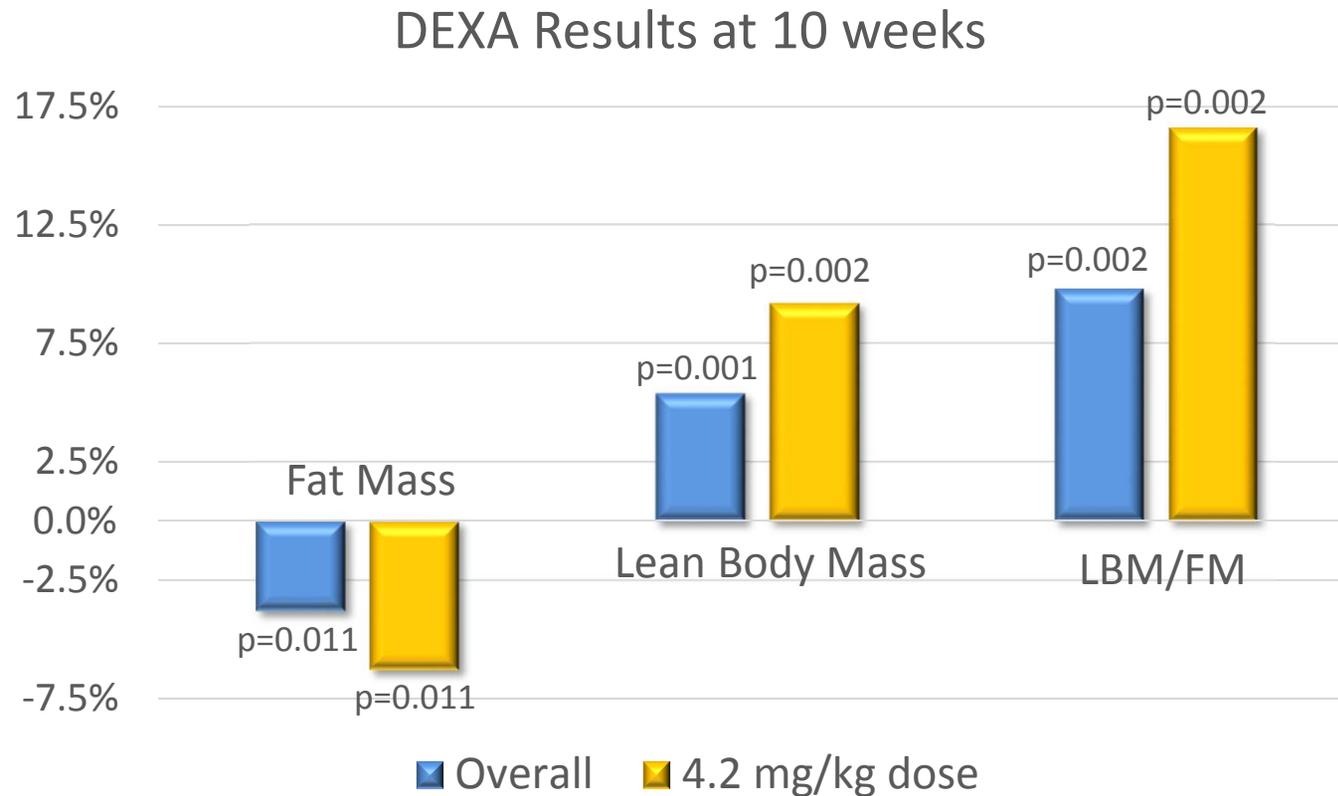
The safety and efficacy results from the study were reviewed with a panel of PWS experts

DCCR: Significant Hyperphagia Response



Hyperphagia was measured using a standard (Modified Dykens) questionnaire which assessed a range of PWS specific food related behaviors

DCCR Impacts Fat/Lean Body Mass



“The impact on fat mass and lean body mass are huge, especially in the context of improvements in hyperphagia”

- Dr. Jennifer Miller, University of Florida

Presented by Essentialis at the Annual Meeting of the Foundation for Prader-Willi Research on October 29, 2016

DCCR Reduces Aggressive Behaviors

- ▶ Based on the Behavioral Assessment Questionnaire from the Prader-Willi Syndrome Natural History Study
- ▶ Aggressive and destructive behaviors
 - 70% of subjects at Baseline
 - 30% of subjects at 10 weeks ($p=0.006$)

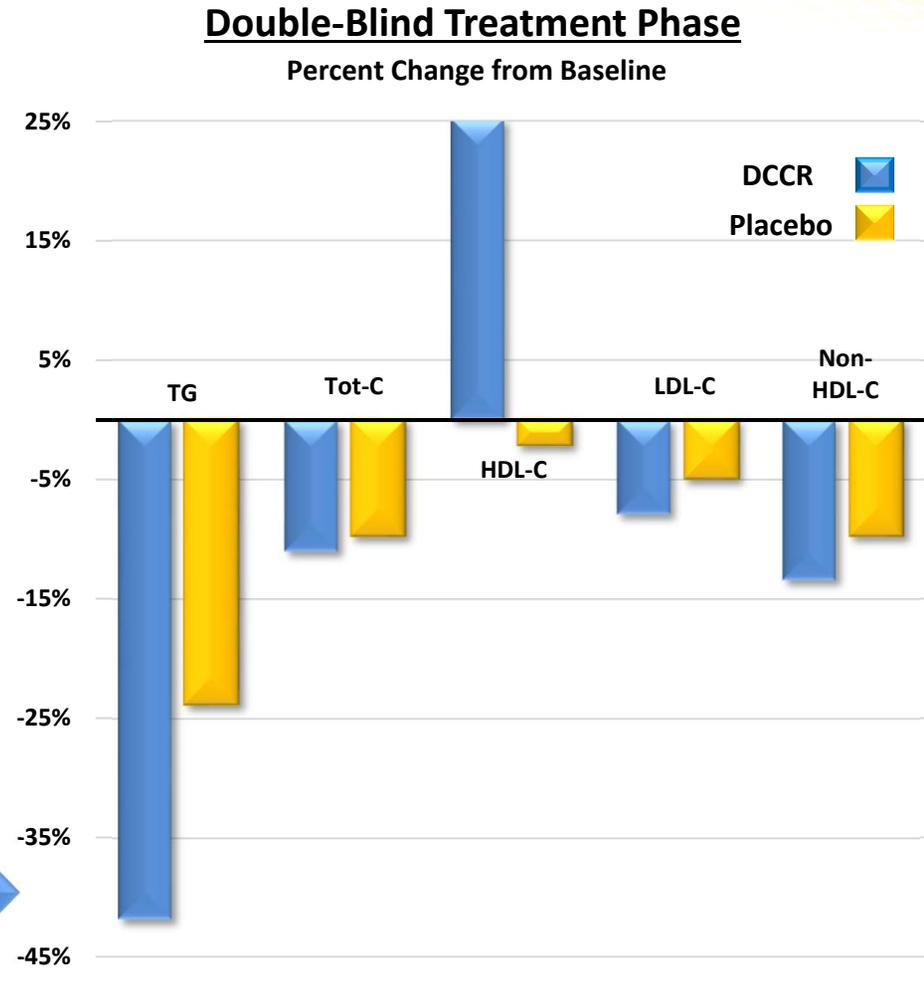
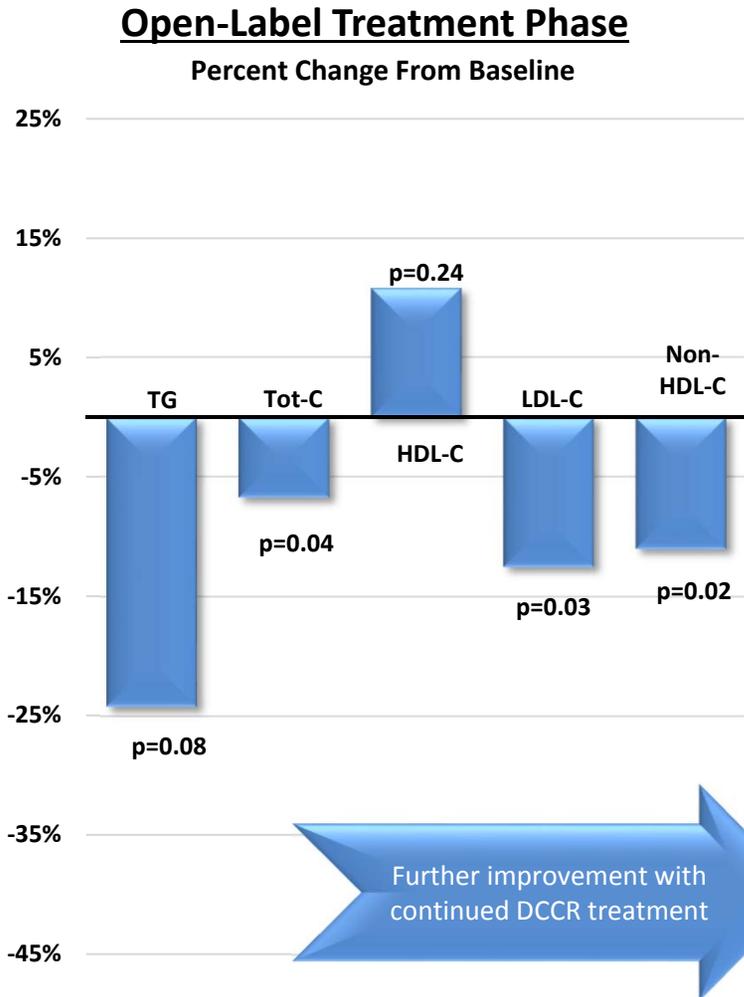
“From a family standpoint, the behavioral changes are huge. Aggression takes kids out of the home.”

- Dr. Theresa Strong, FPWR

“These behavioral changes can be life-changing for the family”

- Dr. Jennifer Miller, University of Florida

DCCR Impacts CV Risk Factors



Further improvement with continued DCCR treatment

Presented by Essentialis at the Annual Meeting of the Foundation for Prader-Willi Research on October 29, 2016

Diazoxide – Long History of Safe Use

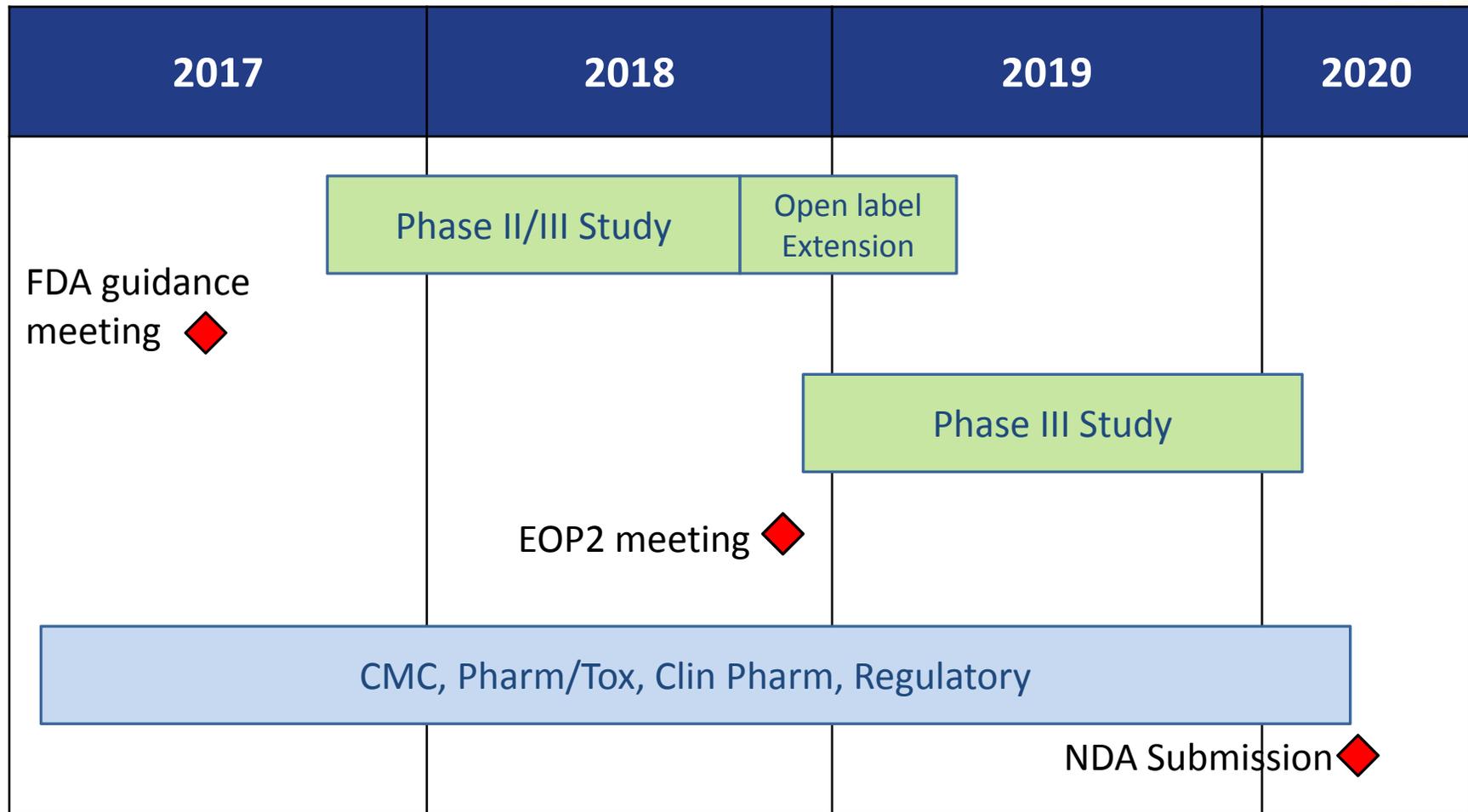
DCCR – Extensive Pre-Clinical and Clinical Data

- ▶ The safety profile of Proglycem in chronic use is well-known
- ▶ In the development of DCCR, there have been no new safety findings
- ▶ The doses of DCCR that will continue in development are at the low end or below the labeled range for Proglycem
- ▶ More than 120,000 patient years of chronic use

“The medication’s safety profile is well known. It’s a benign medication”

- Dr. Jennifer Miller, University of Florida

DCCR Estimated Development Timeline



Extensive IP Protection

▶ Issued/Granted Patents

- US: 3; EU: 3; JP: 1;
- Also in China, India, Canada and Australia
- Several pending applications
- Expire in 2026 to 2029
- Covers composition of matter, formulations, combinations, method of use and method of manufacture

▶ Protection in PWS

- In addition to the protection of the product, our filings cover method of use of any K_{ATP} channel activator, diazoxide and DCCR in PWS
- New filing based on data from PC025 could extend protection to 2035

Pipeline – Orphan Opportunities

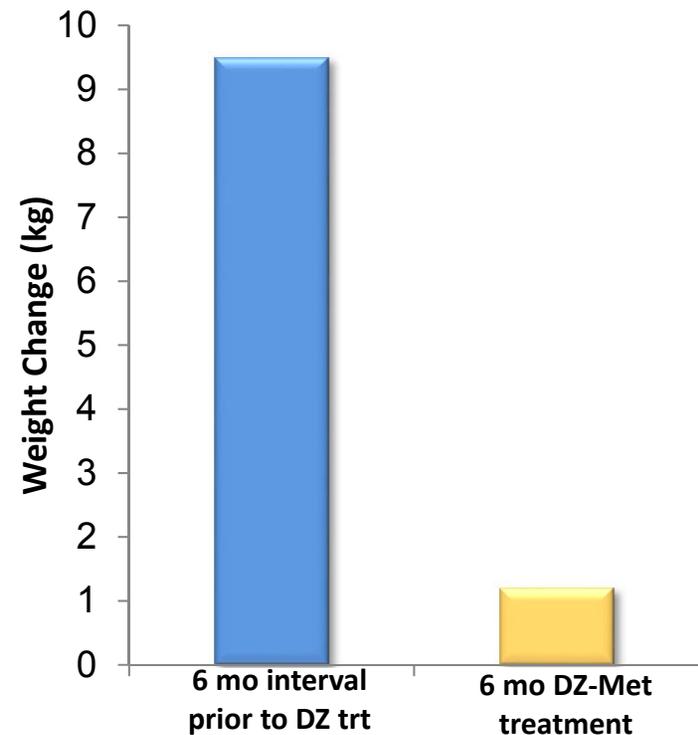
Product	Indication	US Patient Population Estimate	Timing to NDA
DCCR	Prader-Willi Syndrome	12,500 - 21,000	2020
Upside Opportunities for DCCR			
DCCR	Hypothalamic Obesity	3,750 – 9,700	2022
DCCR	Smith-Magenis Syndrome	12,500 – 21,000	2022

- ▶ Orphan drug designation was granted for PWS in the US in May 2014

Hypothalamic Obesity

- ▶ Intractable weight gain and endocrine complications following damage to the hypothalamus
- ▶ Most frequently follows excision of a cranial tumor, particularly craniopharyngioma
- ▶ Often evident within 1-2 months of surgery
- ▶ Dramatically reduced resting and voluntary energy expenditure
- ▶ No currently approved treatments
- ▶ Prevalence 1:50,000, with more than 50% being children and adolescents

Weight change in adolescent hypothalamic obesity patients treated for 6 months with diazoxide and metformin



N=9, p=0.004

Inter J Pediatric Endocrin 2011:417949

Smith-Magenis Syndrome (SMS)

- ▶ Complex genetic neurobehavioral / metabolic disorder due to haploinsufficiency of the retinoic acid-induced 1 (RAI1) gene on chromosome 17p11.2
- ▶ Key aspects of the natural history parallels PWS
- ▶ Behavioral complications more prominent
- ▶ Highest unmet needs: aggressive behaviors, hyperphagia, body composition and sleep disturbances
- ▶ SMS families have low QOL
- ▶ There are no approved treatments
- ▶ Prevalence is 1:15,000 - 1:25,000



2017 Priorities

- ▶ **1Q17** – Closed merger transaction with Essentialis; completed concurrent \$10M financing
- ▶ **May 2017** – Name change to Soleno Therapeutics
- ▶ **Mid-2017** – Complete FDA guidance meeting for DCCR
- ▶ **2H17** – Initiate Phase II/III clinical study evaluating DCCR for the treatment of PWS
- ▶ **2017** – Explore strategic alternatives for legacy marketed products and product candidates
- ▶ **2017** – Secure orphan drug designation for DCCR in additional indications beyond PWS



Financial Highlights

Cash runway to value creating milestones

(millions)

	12/31/16	Post-Merger
Cash	\$2.7	\$11.0
Debt	\$0	\$0
Shares outstanding:		
Common	16.8	47.5 ¹
Fully Diluted	39.0	65.4 ¹

1. Does not include holdback shares of 900 thousand to be issued after 1 year and milestone shares of 4.6 million to be issued upon start of Phase II/III clinical trial

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Thank you.

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