Taking Diazoxide Choline Extended-Release Tablets Long Term Reduced Hyperphagia and Behavioral and Emotional Problems in People With Prader-Willi Syndrome, With and Without a Prior Pause in Treatment (Study C614)

What is Prader-Willi syndrome?

- about 1 out of every 15,000 babies born in the United States¹
- PWS is most commonly caused by genes on a specific chromosome (chromosome 15) that are missing or do not work properly²

Prader-Willi syndrome (PWS) is a rare disease that is found in

- PWS affects all races, ethnicities, and sexes equally⁴
- People with PWS have different kinds of signs and symptoms, which change with age²
- One of the most challenging parts of having PWS is "hyperphagia", which is
- extreme hunger or an overwhelming urge to eat and having constant thoughts about food even when the body does not need more food⁴ People with PWS also have other behavioral and emotional problems
- that are not related to food. These can include aggression and depression⁵

Learn more about

genes and chromosomes

Diazoxide choline extended-release tablets (more simply called diazoxide choline) is a medicine approved in the United States for the treatment of hyperphagia

What is diazoxide choline?

- in people with PWS who are 4 years of age and older Diazoxide choline is a tablet that is taken by mouth once a day



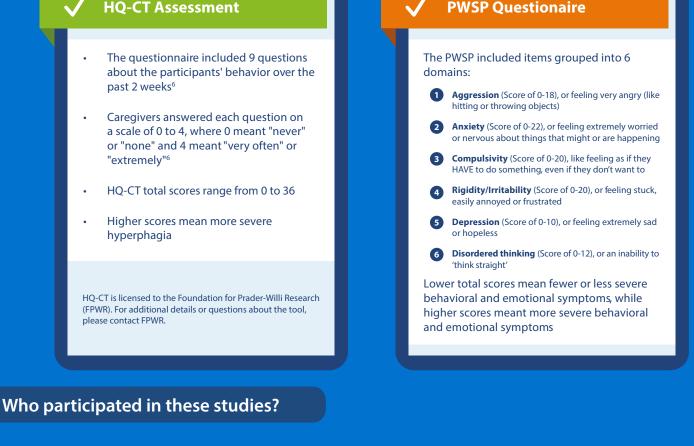
as well as behavioral and emotional symptoms in people with PWS, in people who had a prior interruption in treatment and in people who did not

What did this analysis look at?

During the study, 2 different questionnaires were used: The Hyperphagia Questionnaire for Clinical Trials (HQ-CT) measured participants' hyperphagia-related behaviors and how often they thought about food⁶

This analysis looked at whether taking diazoxide choline for a long time could continue to improve hyperphagia,

- The Prader-Willi Syndrome Profile (PWSP) measured participants' emotional and behavioral symptoms that were not
 - related to food7



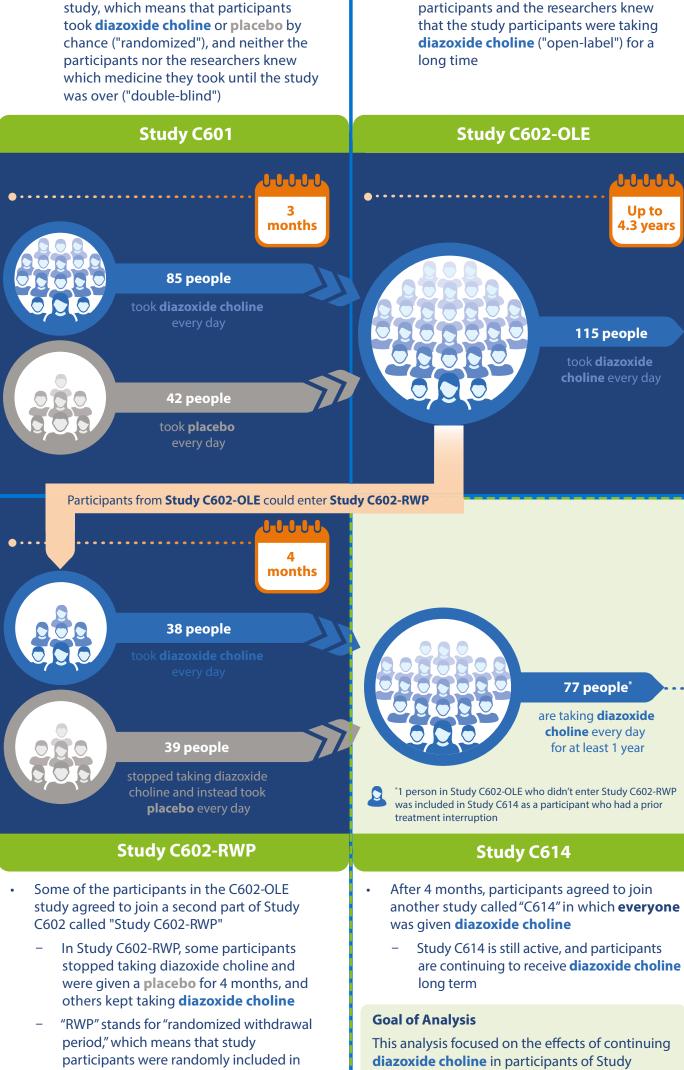
tablet that looked like diazoxide choline but contained no medicine)

C601 was a randomized, double-blind study, which means that participants took diazoxide choline or placebo by chance ("randomized"), and neither the participants nor the researchers knew was over ("double-blind")

In Study C601, people 4 years of age and

older who have hyperphagia with PWS took

either diazoxide choline or a "placebo" (a



for the 4-month period

either the **placebo** group or the group

who continued to take diazoxide choline

C614, including those who had stopped taking diazoxide choline for 4 months (e.g., participants who had taken placebo in Study C602-RWP), and those who continued taking diazoxide choline

without stopping (e.g., participants who had taken diazoxide choline in Study C602-RWP)

At the end of 3 months, people could decide

"OLE" stands for "open-label extension,"

which means that both the study

to enter a longer follow-up study called

"C602-OLE" where everyone was given

diazoxide choline for up to 4.3 years

Participants included in this analysis

with participants who continued taking diazoxide choline J-U-U-U-U

1 year

People who took diazoxide choline nonstop

HQ-CT Score

at the start of Study C614

HQ-CT Score

at the start of

Study C614

Change in PWSP Symptom Score After 1 Year in Study C614 Rigidity/ Disordered Aggression Compulsivity **Irritability Anxiety** thinking Depression (Score 0-18) (Score 0-20) (Score 0-20) (Score 0-22) (Score 0-12) (Score 0-10) 0.3 -0.2 -0.2 -0.3 -0.7 **-0.7 -0.7** _1.5 -1.6 -1.6

improvements in hyperphagia, as well as behavioral and emotional symptoms, after restarting diazoxide choline Continued long-term diazoxide choline treatment for 1 year was also associated with ongoing improvements in

In this analysis of Study C614, people with PWS who had a prior treatment interruption showed marked

these areas, including for those participants who took diazoxide choline without interruption

One year after participants restarted diazoxide choline, their behavioral and emotional symptoms were better than when they first joined Study C614 In the study participants who took diazoxide choline nonstop, symptoms of aggression, compulsion, anxiety, inability to "think straight," and depression got better at 1 year compared with when they first joined Study C614

Who sponsored this study? This study was sponsored by Soleno Therapeutics, Inc. This summary reports the early results of one study. The results of this study may differ from those of other studies.

Health professionals should make treatment decisions based on all available evidence, not just on the results of a

- NCT05701774 (Study C614)
- The full title of this presentation Resuming Diazoxide Choline Extended-Release

Where can I find more information?

Read more

about the C614 study

is Associated with Significant Improvements in Hyperphagia and Behavioral Symptoms in PWS (Study C614) Researchers

References

1. Driscoll DJ et al. Mol Genet Genomic Med. 2019;7(3):e514. 2. Cassidy SB et al. Genet Med. 2017;14(1):19-26.

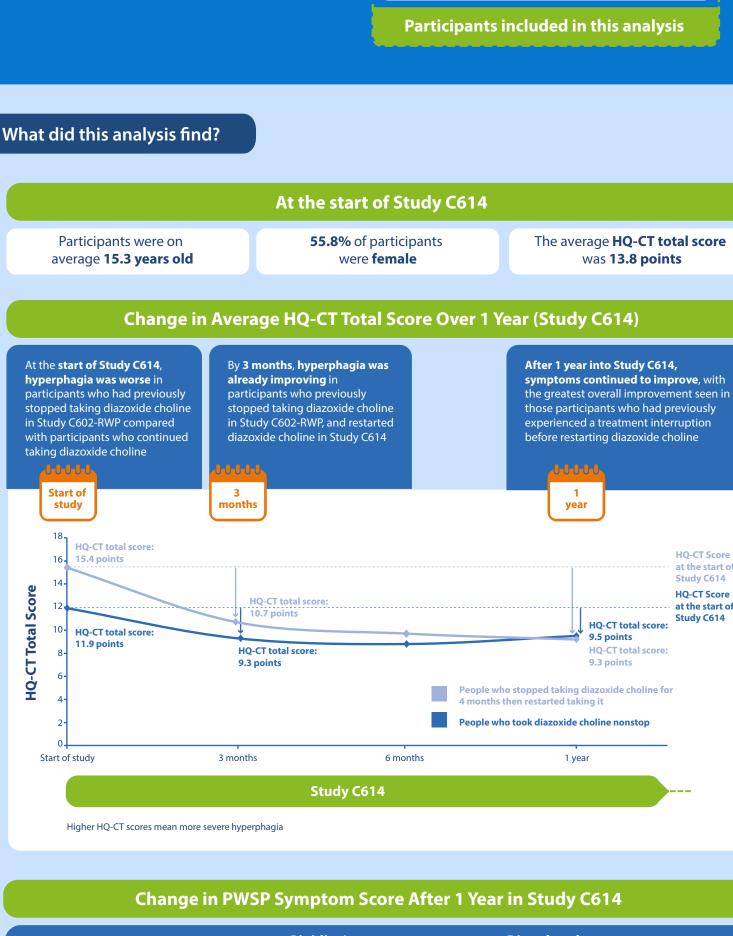
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www.ClinicalTrials.gov

- Centers for Disease Control and Prevention. Genetics basics. May 14, 2024. https://www.cdc.gov/genomics-and-health/about/index.html. 4. Bohonowych J et al. Genes. 2019;10(9):713. 5. Schwartz L et al. J Neurodev Disord. 2021;13:25.
- 6. Matesevac L et al. Sci Rep. 2023;13(1):20573. 7. Dykens EM et al. Orphanet J Rare Dis. 2024;19(1):83.
- by Megan K. Elder, PhD, at ApotheCom, San Francisco, CA, USA, and was funded by Soleno Therapeutics, Inc., Redwood City, CA, USA,





What are the main conclusions of this analysis?

People who stopped taking diazoxide choline for

4 months then restarted taking it in Study C614

-2.3

- single study

(DCCR) after 16-week Randomized Withdrawal

Kathryn Obrynba, Jack Yanovski, Eric Felner, Ashley Shoemaker, Nicola Bridges, Julie Perry, Jing Gong, Neil Cowen, Evelien Gevers, Jennifer Miller

Acknowledgements Soleno Therapeutics, Inc., would like to thank all the people who took part Editorial/medical writing support under the guidance of the authors was provided

Learn more about genes and chromosomes



Chromosomes are packages of DNA inside human cells³ Each human cell (except for sperm and egg cells) has 23 pairs of chromosomes³



DNA within chromosomes is made up of sections called genes³ Genes carry the instructions needed for the body to function³

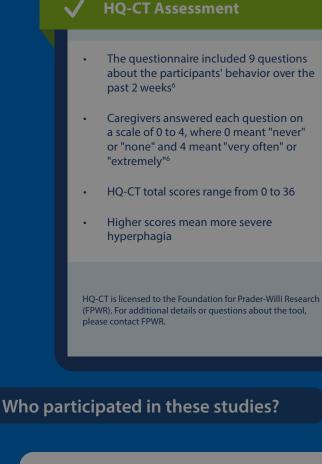


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- The Prader-Willi Syndrome Profile (PWSP) measured participants' emotional and behavioral symptoms that were not
 - related to food7



PWSP Questionaire The PWSP included items grouped into 6 domains: Aggression (Score of 0-18), or feeling very angry (lik hitting or throwing objects) Anxiety (Score of 0-22), or feeling extremely worried or nervous about things that might or are happening Compulsivity (Score of 0-20), like feeling as if they HAVE to do something, even if they don't want to Rigidity/Irritability (Score of 0-20), or feeling stuck, easily annoyed or frustrated **Depression** (Score of 0-10), or feeling extremely sad or hopeless **Disordered thinking** (Score of 0-12), or an inability to 'think straight' Lower total scores mean fewer or less severe behavioral and emotional symptoms, while higher scores meant more severe behavioral and emotional symptoms

tablet that looked like diazoxide choline but contained no medicine)

- C601 was a randomized, double-blind study, which means that participants took diazoxide choline or placebo by chance ("randomized"), and neither the participants nor the researchers knew which medicine they took until the study
 - was over ("double-blind") Study C601 months
- participants and the researchers knew that the study participants were taking diazoxide choline ("open-label") for a long time

which means that both the study

At the end of 3 months, people could decide

"OLE" stands for "open-label extension,"

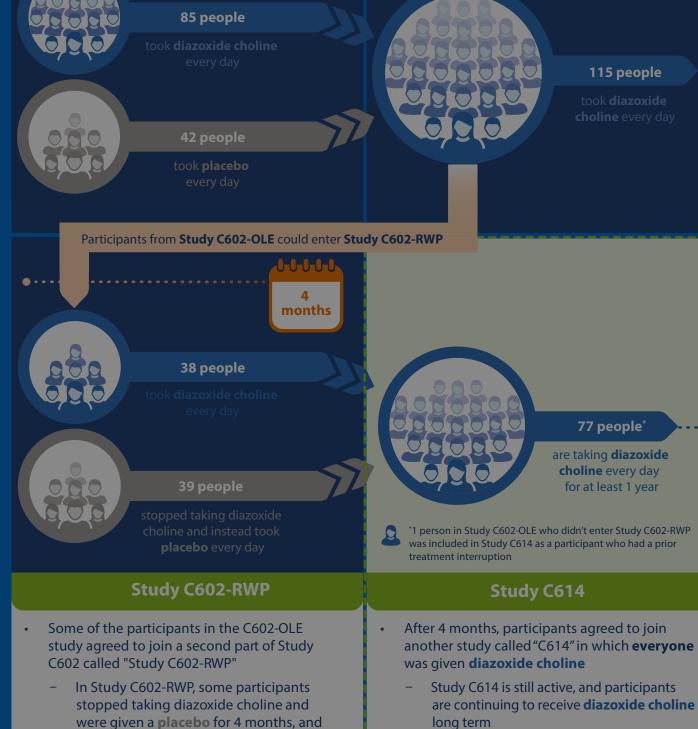
to enter a longer follow-up study called

"C602-OLE" where everyone was given

diazoxide choline for up to 4.3 years

Study C602-OLE Up to

4.3 years



This analysis focused on the effects of continuing diazoxide choline in participants of Study

Change in Average HQ-CT Total Score Over 1 Year (Study C614)

The average **HQ-CT total score**

was 13.8 points

After 1 year into Study C614,

year

symptoms continued to improve, with

Study C614

HQ-CT Score

at the start of Study C614

who continued to take diazoxide choline for the 4-month period

in Study C602-RWP compared

At the start of Study C614,

hyperphagia was worse in

15.4 points

HQ-CT total score: 11.9 points

study

16.

14

10.

What did this analysis find?

Participants were on

average 15.3 years old

55.8% of participants

were **female**

1 year

HQ-CT total score:

People who stopped taking diazoxide choline for People who took diazoxide choline nonstop Start of study 3 months 6 months Higher HQ-CT scores mean more severe hyperphagia Change in PWSP Symptom Score After 1 Year in Study C614 Rigidity/ Disordered **Aggression** Compulsivity **Irritability** Anxiety thinking Depression (Score 0-20) (Score 0-20) (Score 0-22) (Score 0-12) 0.3 -0.2 -0.2 -0.3 -0.7 **-0.7** -1.6 -2.3 People who stopped taking diazoxide choline for People who took diazoxide choline nonstop 4 months then restarted taking it in Study C614

Who sponsored this study?

Where can I find more information?

NCT05701774

The full title of this presentation

is Associated with Significant Improvements in Hyperphagia and Behavioral Symptoms in PWS (Study C614) Researchers

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- 7. Dykens EM et al. Orphanet J Rare Dis. 2024;19(1):83. Acknowledgements
- by Megan K. Elder, PhD, at ApotheCom, San Francisco, CA, USA, and was funded by Soleno Therapeutics, Inc., Redwood City, CA, USA, in accordance with Good Publication Practice (GPP 2022) guidelines (Ann Intern Med. 2022;175:1298-1304. doi: 10.7326/M22-1460).

To access a copy of this PLS and the associated poster presentation, please click here

Resuming Diazoxide Choline Extended-Release (DCCR) after 16-week Randomized Withdrawal Kathryn Obrynba, Jack Yanovski, Eric Felner, Ashley Shoemaker, Nicola Bridges, Julie Perry,

Centers for Disease Control and Prevention. Genetics basics. May 14, 2024. https://www.cdc.gov/genomics-and-health/about/index.html. 4. Bohonowych J et al. *Genes*. 2019;10(9):713. Soleno Therapeutics, Inc., would like to thank all the people who took part in this study. Editorial/medical writing support under the guidance of the authors was provided

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and how often they thought about food⁶

- - In Study C601, people 4 years of age and older who have hyperphagia with PWS took either diazoxide choline or a "placebo" (a

"RWP" stands for "randomized withdrawal period," which means that study participants were randomly included in either the placebo group or the group

others kept taking diazoxide choline

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Goal of Analysis

At the start of Study C614

By 3 months, hyperphagia was

already improving in

HQ-CT total score:

HQ-CT total score: 9.3 points

months

with when they first joined Study C614

One year after participants restarted diazoxide choline, their behavioral and emotional symptoms were better than when they first joined Study C614 In the study participants who took diazoxide choline nonstop, symptoms of aggression, compulsion, anxiety, inability to "think straight," and depression got better at 1 year compared

What are the main conclusions of this analysis?

Read more about the C614 study

Jing Gong, Neil Cowen, Evelien Gevers, Jennifer Miller