

Focused on developing and commercializing novel therapies for rare endocrine disorders with significant unmet medical need

Corporate Presentation

January 24, 2022

FORWARD-LOOKING STATEMENTS

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This presentation discusses a product candidate that is under clinical study and which has not yet been approved for marketing by the U.S. Food and Drug Administration. No representation is made as to the safety or effectiveness of this product candidate for the use for which it is being studied.

SPRUCE AT-A-GLANCE

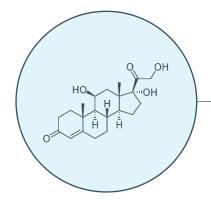
Tildacerfont poised to transform treatment paradigm in classic CAH	Two late-stage clinical studies initiated; Data expected in 2H-2023 (CAHmelia-203) and 2H-2024 (CAHmelia-204).
Multiple expansion opportunities	Phase 2 programs in pediatric classic CAH (6 to 17 years of age) and polycystic ovary syndrome (FAH-PCOS) initiated
Significant commercial opportunity	~\$3B+ worldwide market opportunity in classic CAH
Strong IP protection	Comprehensive IP portfolio based on issued patents provides exclusivity to 2038 in U.S. combined with Orphan Drug Designation in U.S. and Europe
††i Highly experienced leadership team	Management has contributed to development and commercial launch of endocrine and rare disease products

Classic CAH Overview

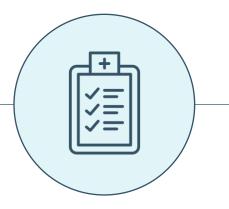


CLASSIC CAH DISEASE OVERVIEW

Classic CAH is a chronic and potentially life-threatening rare disease



Classic CAH is an autosomal recessive disease characterized by an inability to produce cortisol, leading to a chronic imbalance of key hormones and an overproduction of adrenal androgens.

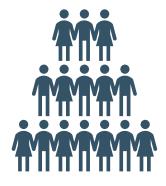


Due to the severity and high incidence of the disease, most developed countries have established newborn screening programs to test for classic CAH at birth.



We estimate the total classic CAH population to be approximately 20,000-30,000 people in the U.S., 50,000 people in the EU, and at least 145,000 people in China.

OF THE 21-OH DEFICIENT CAH SUBTYPES, CLASSIC IS MORE SEVERE



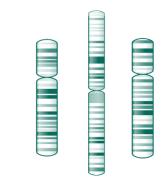
Classic 21-OHD CAH¹

More severe, life-threatening 1:18,000-10,000 births worldwide



Non-classic 21-OHD CAH²

Less severe, not life-threatening 1:500-1:100 births worldwide



Other forms of CAH¹

CYP11B1 1:100,000 CYP17A1, HSD3B2, POR, STAR very rare





NEWBORN SCREENING for classic CAH¹

Routine in over 50 countries and all 50 states, to prevent neonatal adrenal crisis

- > Detects elevated 17-OHP in the blood
- >> Positive result requires confirmatory testing with serum 17-OHP and cortisol levels

LABORATORY TESTING for later-onset CAH²



- Non-classic CAH is often not detected on newborn screening
- Morning 17-OHP blood level with or without ACTH stimulation test generally diagnostic
- Senetic testing for CYP21A2 mutations if hormone levels are non-diagnostic

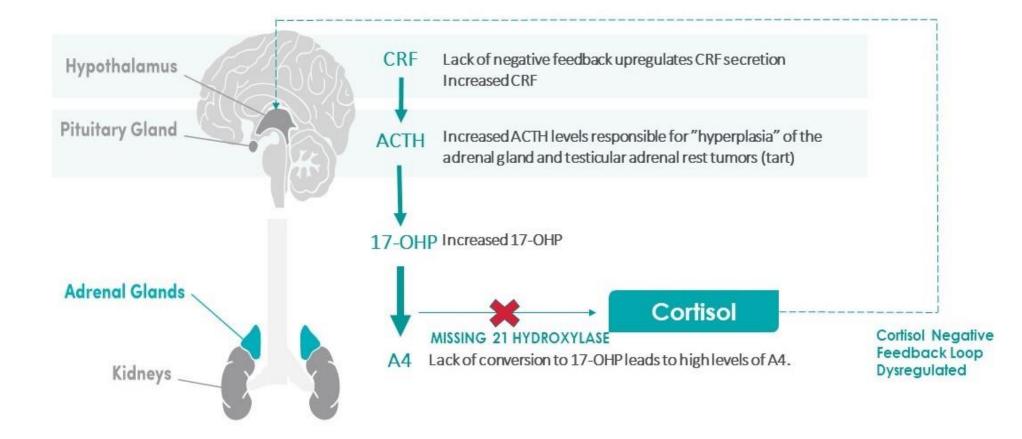
PRENATAL DIAGNOSIS for carriers¹

- Indicated when prior children have CAH
- >> Fetal hormone levels and DNA can be analyzed from amniotic fluid
- Fetal DNA analysis is also performed via chorionic villus sampling



HPA AXIS FUNCTION IN CLASSIC CAH PATIENTS

Lack of cortisol leads to overproduction of ACTH and precursor steroid molecules, resulting in excessive adrenal androgens

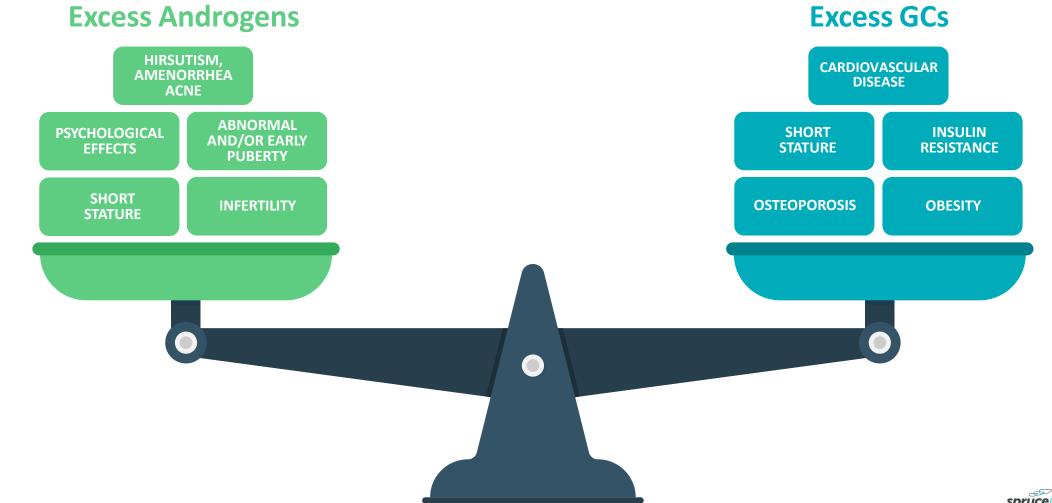


The dysregulation of the HPA axis in classic CAH.



THE CHALLENGE IN TREATING CLASSIC CAH

Patients and physicians must choose between the detrimental effects of chronically high adrenal androgen levels or the harmful consequences of excessive, life-long GC use

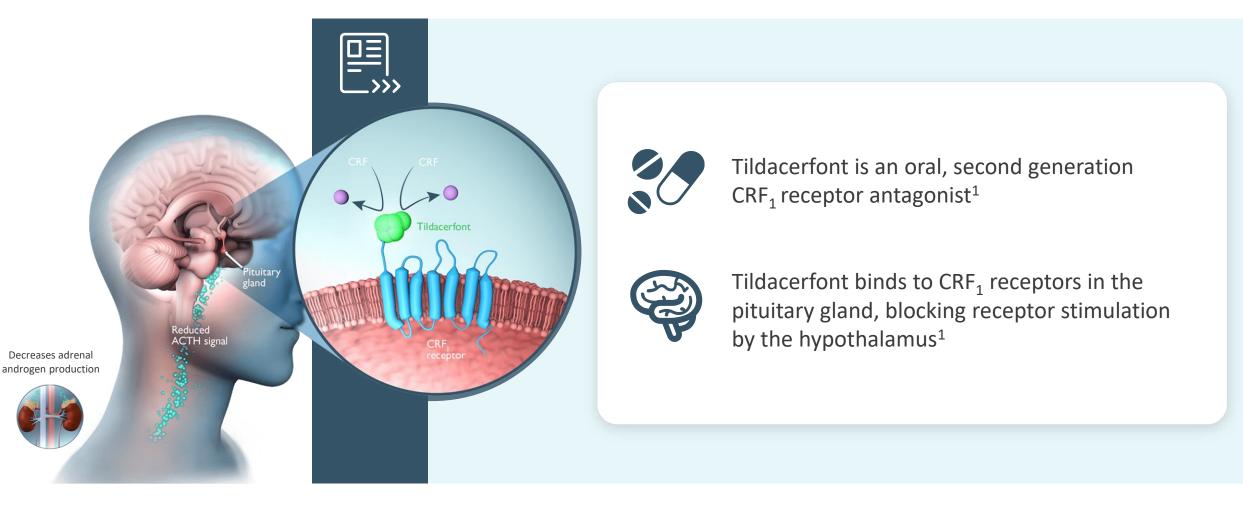




Tildacerfont



TILDACERFONT IS A NOVEL CRF₁ RECEPTOR ANTAGONIST

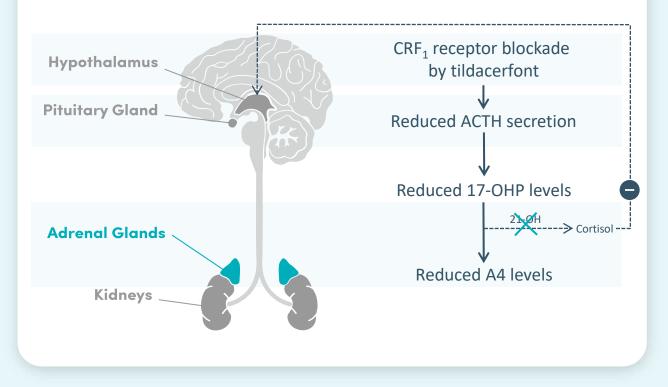




Tildacerfont inhibits excessive production of **ACTH**, **17-OHP** and **adrenal androgens**¹

By reducing excess adrenal androgens (e.g., A4), tildacerfont may improve CAH symptoms and allow **GC reduction** to near physiologic levels¹

Effect of tildacerfont on HPA-axis function in CAH^{1,2}



17-OHP, 17-hydroxyprogesterone; 21-OH, 21-hydroxylase, A4, androstenedione; ACTH, adrenocorticotropic hormone; CAH, congenital adrenal hyperplasia; GC, glucocorticoid; CRF₁, corticotropin-releasing factor 1; HPA, hypothalamic-pituitary-adrenal.



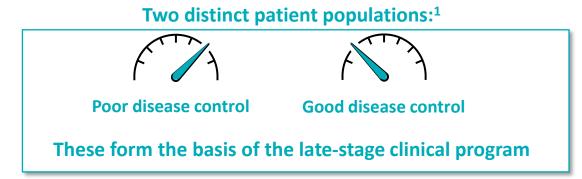


Adult Classic CAH Clinical Development Program



KEY FINDINGS FROM PHASE 1 AND 2 STUDIES: SUMMARY

ACTH



Efficacy

Treatment with tildacerfont resulted in:1

2 weeks	
	3 months

Reduced adrenal androgens at 2 weeks (Study 201) and 3 months (Study 202) in poor disease control patients

Robust reduction in ACTH at the **lowest dose studied** (200mg QD)¹

- No added benefit observed with higher or more frequent dosing
- Evidence of clinical outcome improvement (TART reduction)

Safety

Tildacerfont was generally well-tolerated in both:





Healthy adults²



No drug-related SAEs reported to date^{1,2}

Most common adverse events: headache and upper respiratory tract infection (mild)

ACTH, adrenocorticotropic hormone; ALT, alanine aminotransferase; AST, aspartate aminotransferase; CAH, congenital ad TART, testicular adrenal rest tumor. Liver icon by Edwin PM, Noun Project.

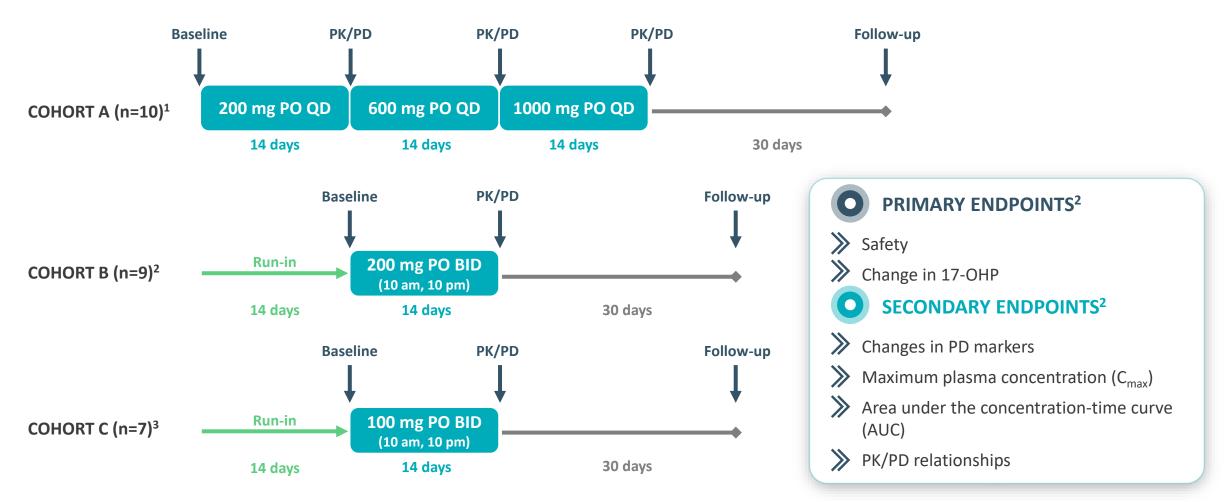
erplasia; QD, once daily; SAE, serious adverse event;

1. Sarafoglou K, et al. J Clin Endocrinol Metab. 2021:dgab438. DOI: https://doi.org/10.1210/clinem/dgab438 [Epub ahead of print]; 2. Barnes C, et al. J Endocr Soc 2021; 5(Suppl 1): A67.



SPR001-201: CLINICAL PROOF OF CONCEPT (PHASE 2 STUDY)^{1,2}

Phase 2, multicenter, open-label, multiple-dose, dose-escalation study¹

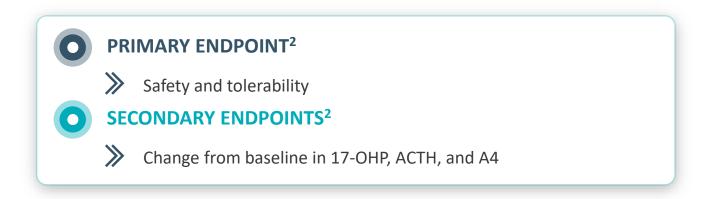


17-OHP, 17-hydroxyprogesterone; BID, twice daily; PD, pharmacodynamics; PK, pharmacokinetics; PO, oral administration; QD, once daily.
 Sarafoglou K, et al. J Clin Endocrinol Metab. 2021:dgab438. DOI: <u>https://doi.org/10.1210/clinem/dgab438</u> [Epub ahead of print];
 Clinical Trial NCT03257462. Available at: https://clinicaltrials.gov/ct2/show/NCT03257462 (last accessed July 2021).

SPR001-202: TWELVE-WEEK, OPEN-LABEL PHASE 2 STUDY^{1,2}

Phase 2, multi-center, open-label study¹





*Trial visits were conducted in the morning, at approximately 8 AM, prior to consumption of a morning GC dose at baseline (Day 1) and Weeks 2, 4, 6, 8, 10, and 12, and 30 days after the last dose.

17-OHP, 17-hydroxyprogesterone; A4, androstenedione; ACTH, adrenocorticotropic hormone; PD, pharmacodynamic profiles; PO, oral administration; QD, once daily.

1. Sarafoglou K, et al. J Clin Endocrinol Metab. 2021:dgab438. DOI: <u>https://doi.org/10.1210/clinem/dgab438</u> [Epub ahead of print]; 2. Clinical Trial NCT03687242. Available at: https://clinicaltrials.gov/ct2/show/NCT03687242 (last accessed July 2021).



UNMET MEDICAL NEEDS ACCORDING TO DISEASE STATUS

The management of classic CAH requires a balance between adrenal hormone suppression and GC replacement^{1,2}





GOOD DISEASE CONTROL¹

 Unmet need to reduce GC dose and improve related clinical outcomes

Normal or near normal adrenal

androgens

UNMET MEDICAL NEEDS ACCORDING TO DISEASE STATUS

The management of classic CAH requires a balance between adrenal hormone suppression and GC replacement^{1,2}

POOR DISEASE CONTROL¹

- Elevated adrenal androgens
- Unmet need to reduce adrenal androgens and improve related clinical outcomes

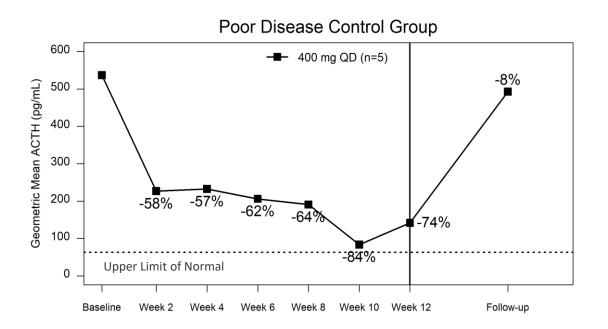




SPR001-202: ROBUST REDUCTION IN ACTH IN POORLY CONTROLLED DISEASE

In the poor disease control group, a robust initial drop in ACTH was seen at week 2, followed by further reduction over 12 weeks; there was a maximum reduction in ACTH of **84%** at week 10 of the study in the poor disease control group

POOR DISEASE CONTROL



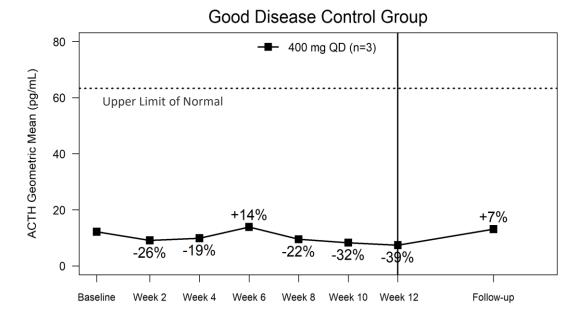
Normalization of ACTH achieved in 60% of patients^{*}

*One subject at week 2 prior to discontinuation from the trial and two patient during month 3.

ACTH, adrenocorticotropic hormone; QD, once daily

Sarafoglou K, et al. J Clin Endocrinol Metab. 2021:dgab438. DOI: https://doi.org/10.1210/clinem/dgab438 [Epub ahead of print].

GOOD DISEASE CONTROL



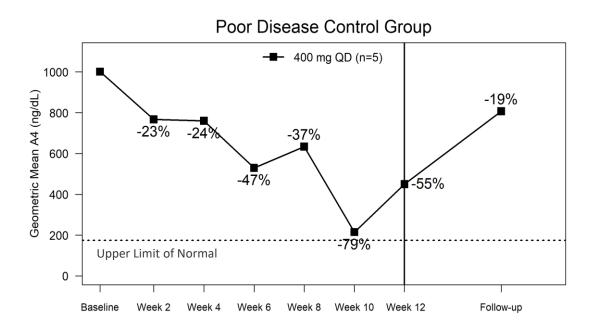
• No excessive suppression of adrenal function



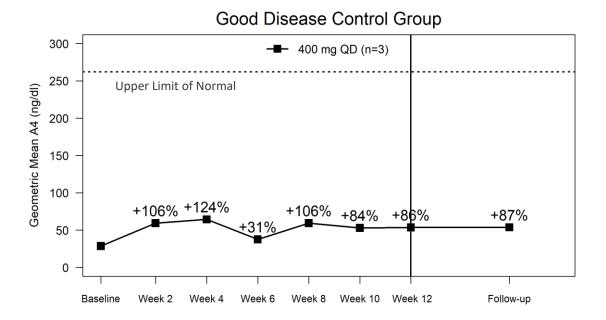
SPR001-202: SUSTAINED REDUCTION IN A4 IN POORLY CONTROLLED DISEASE

In poor disease control group, an initial drop in A4 was seen at week 2, followed by further reduction over 12 weeks; there was a maximum reduction in A4 of **79% at week 10** of study in the poor disease control group

POOR DISEASE CONTROL



GOOD DISEASE CONTROL



No excessive suppression of adrenal function

Normalization of A4 achieved in 40% of patients

A4, androstenedione; QD, once daily

Sarafoglou K, et al. J Clin Endocrinol Metab. 2021:dgab438. DOI: https://doi.org/10.1210/clinem/dgab438 [Epub ahead of print].





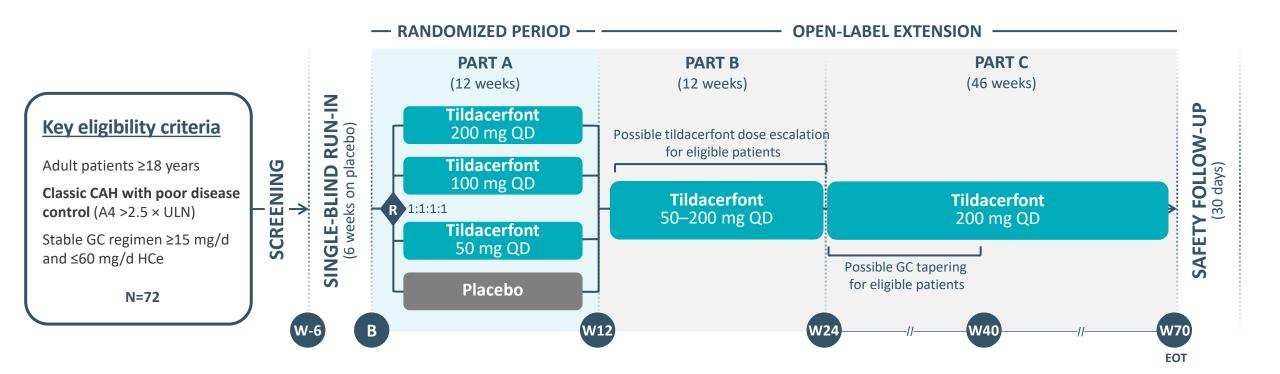


Program Update



CAHmelia-203: ADRENAL ANDROGEN REDUCTION STUDY

A randomized, double-blind, placebo-controlled, dose-ranging Phase 2b study to evaluate the efficacy and safety of tildacerfont in adult patients with classic CAH



CAHmelia 203: UPDATES TO INCLUSION CRITERIA

Optional Pre-Screening Protocol Added



Pre-Screening Protocol **simplifies** and **streamlines** site screening activities:

PI checks GC dosage, contraindicated medications, and A4 levels, and informs about trial



Revised A4 and ACTH criteria



Removed the ACTH inclusion criterion Increased A4 boundaries according to current GC dose:

- Has A4 >2.5x ULN at both screening and Week 4
- Has A4 > ULN at both screening and Week 4 (measured before any morning GC dose) if daily GC dose <30 mg</p>

Simplified GC criteria



Broadened the range of allowable prior GC dosing:

Has been on a stable, supraphysiologic dose of GC replacement, defined as
 >15 mg/day and ≤60 mg/day in HCe, for ≥1 month before screening (stress dosing still allowed)





CAHmelia-203: STUDY ENDPOINTS



PRIMARY ENDPOINT

Percent change from baseline in A4 at Week 12

SECONDARY ENDPOINTS

- >>> Proportion of patients who achieve $A4 \leq ULN$ at Week 12
- Proportion of patients who achieve 17-OHP \leq Target at Week 12
- >>> Change in TART volume at Week 12
- Adverse events and serious adverse events

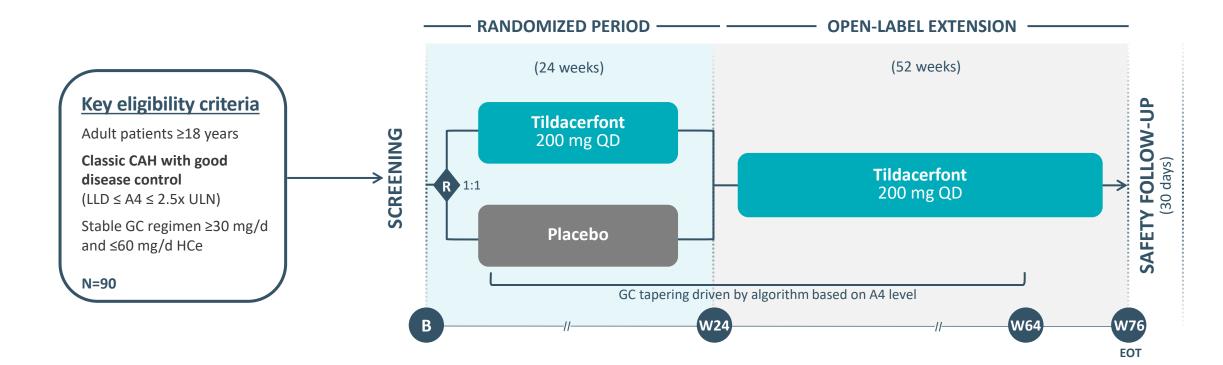
KEY EXPLORATORY ENDPOINTS

- Change from baseline in the SF-36 total score at Weeks 12 and 70
- Change from baseline in hirsutism using the Modified Ferriman-Gallwey score at Week 70
- Change from baseline in acne using the Investigator's Global Assessment score at Week 70
- >>> Change in TART volume at Week 70
- Proportion of subjects with \geq 5 mg/day (HCe) reduction with A4 \leq ULN at Week 70

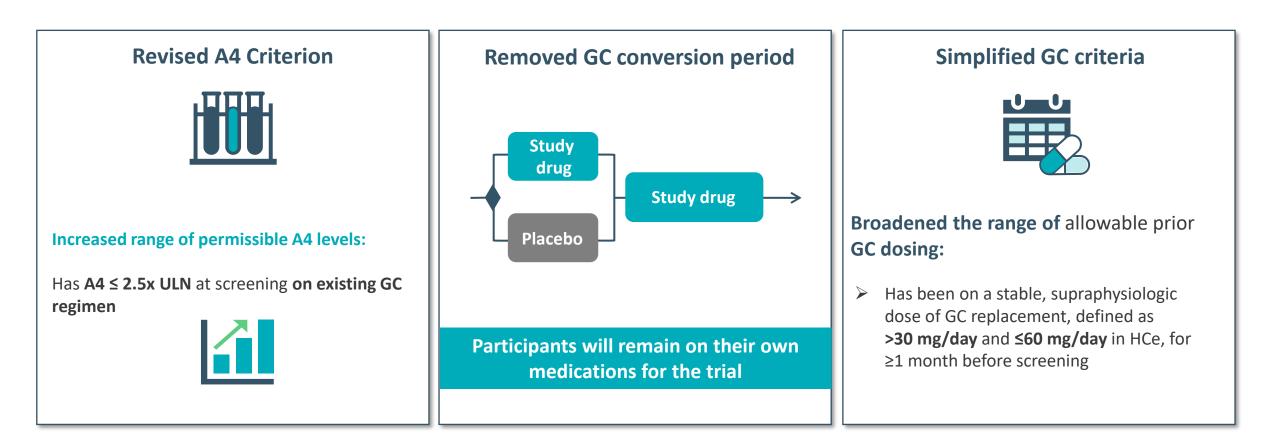


CAHmelia-204: GC REDUCTION STUDY

A randomized, double-blind, placebo-controlled Phase 2b study to evaluate the efficacy and safety of tildacerfont in reducing supraphysiologic GC use in adult patients with classic CAH



CAHmelia 204: UPDATES TO INCLUSION CRITERIA







A4, androstenedione; ACTH, adrenocorticotropic hormone; GC, glucocorticoid; HC, hydrocortisone; HCe, hydrocortisone equivalents; ULN, upper limit of normal.

CAHmelia 204: UPDATES TO PRIMARY ENDPOINT



Primary endpoint updated to proportion of participants achieving a ≥5 mg/d dose reduction baseline in GC dose in HCe at Week 24 with A4 < ULN

Primary endpoint a reflection of individual benefit for each subject





A4, androstenedione; HCe, hydrocortisone equivalents; GC, glucocorticoid; ULN, upper limit of normal.



PRIMARY ENDPOINT

Proportion of subjects with \geq 5 mg/day (HCe) reduction with A4 \leq ULN at Week 24

SECONDARY ENDPOINTS

- >> Percent change from baseline in GC dose at Week 24
- Median total cumulative GC dose (HCe) at Week 24
- >>> Change from baseline in HOMA-IR at Week 24
- >>> Percent change from baseline in weight after 52 weeks of tildacerfont treatment

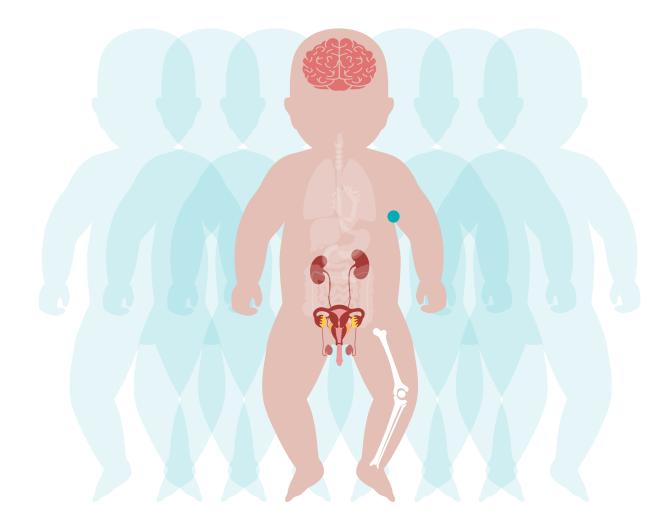
KEY EXPLORATORY ENDPOINTS

- Proportion of subjects with GC dose <25 mg/day (HCe) with A4 < ULN at Week 24 and after 52 weeks of tildacerfont treatment
- >>> Change from baseline in the SF-36 total score at Week 24
- Change from baseline in HOMA-IR, weight, waist circumference, bone mineral density after 52 weeks of tildacerfont treatment



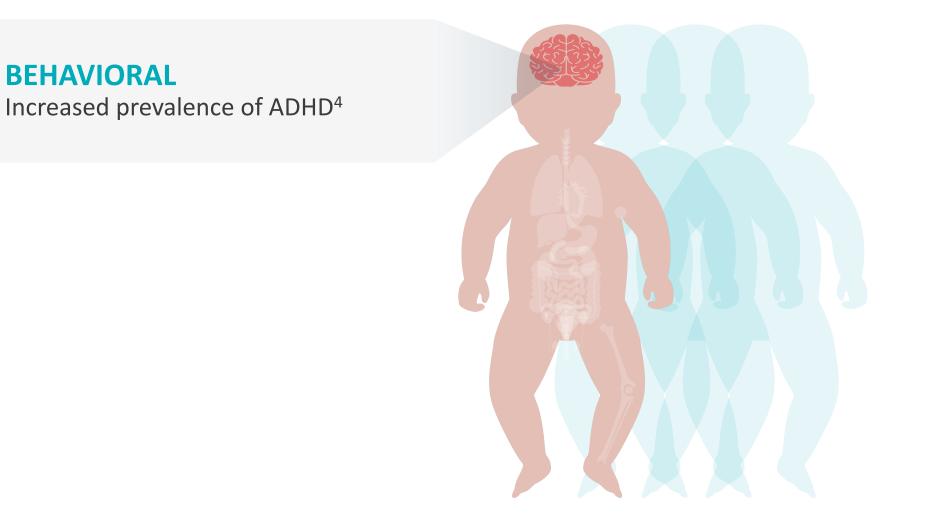
Pediatric Classic CAH Overview





CAH, congenital adrenal hyperplasia 1. Falhammer H, et al. J Clin Endocrinol Metab. 2014; 99: E2715-E2721; 2. Claahsen-van der Grinten H, et al. Endocr Rev. 2021;bnab016. DOI: <u>https://doi.org/10.1210/endrev/bnab016</u> [Epub ahead of print]; 3. Merke D, et al. N Engl J Med. 2020;383:1248-61; 4. Mueller S, et al. Eur J Endocrinol. 2010;163:801-10; 5. Claahsen-van der Grinten H, et al. Best Pract Res Clin Endocrinol Metab. 2009;23(2):209–20.





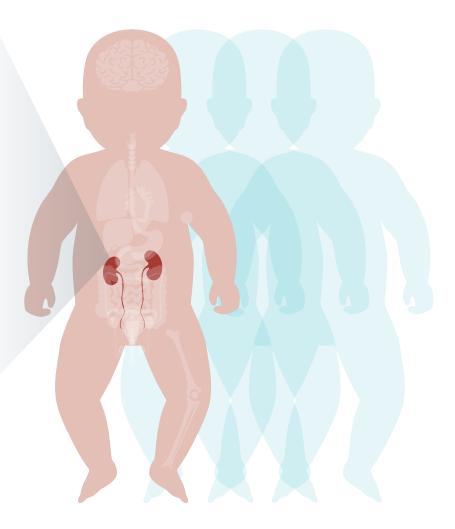
ADHD, attention deficit hyperactivity disorder; CAH, congenital adrenal hyperplasia.

1. Falhammer H, et al. J Clin Endocrinol Metab. 2014; 99: E2715-E2721; 2. Claahsen-van der Grinten H, et al. Endocr Rev. 2021;bnab016. DOI: <u>https://doi.org/10.1210/endrev/bnab016</u> [Epub ahead of print]; 3. Merke D, et al. N Engl J Med. 2020;383:1248-61; 4. Mueller S, et al. Eur J Endocrinol. 2010;163:801-10; 5. Claahsen-van der Grinten H, et al. Best Pract Res Clin Endocrinol Metab. 2009;23(2):209–20.



ADRENAL (SALT-WASTING) CRISIS

- Risk of potentially fatal electrolyte imbalances, acidosis, and shock begins at birth¹
- Precipitated by acute illness, often infection²
- Life-threatening hypoglycemia with seizures is more common in children^{1,2}



CAH, congenital adrenal hyperplasia
1. Falhammer H, et al. J Clin Endocrinol Metab. 2014; 99: E2715-E2721; 2. Claahsen-van der Grinten H, et al. Endocr Rev. 2021; bnab016. DOI: https://doi.org/10.1210/endrev/bnab016 [Epub ahead of print];
3. Merke D, et al. N Engl J Med. 2020; 383:1248-61; 4. Mueller S, et al. Eur J Endocrinol. 2010; 163:801-10; 5. Claahsen-van der Grinten H, et al. Best Pract Res Clin Endocrinol Metab. 2009; 23(2):209–20.

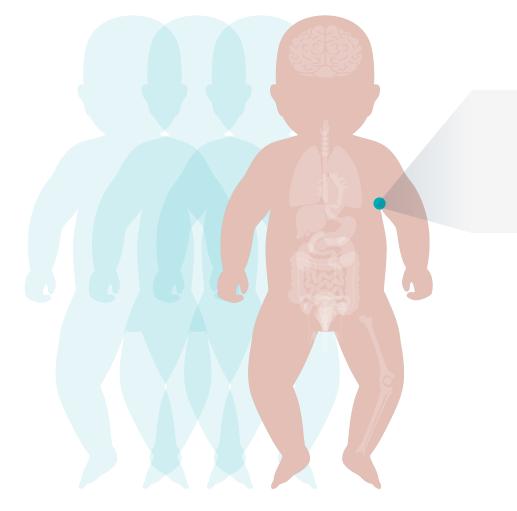


GENITOURINARY

- 46,XX genital atypia/sex misassignment at birth³
- 46,XY TARTs may begin in childhood⁵

CAH, congenital adrenal hyperplasia; TARTs, testicular adrenal rest tumors. 1. Falhammer H, *et al. J Clin Endocrinol Metab.* 2014; 99: E2715-E2721; 2. Claahsen-van der Grinten H, *et al. Endocr Rev.* 2021;bnab016. DOI: <u>https://doi.org/10.1210/endrev/bnab016</u> [Epub ahead of print]; 3. Merke D, *et al. N Engl J Med.* 2020;383:1248-61; 4. Mueller S, *et al. Eur J Endocrinol.* 2010;163:801-10; 5. Claahsen-van der Grinten H, *et al. Best Pract Res Clin Endocrinol Metab.* 2009;23(2):209–20.

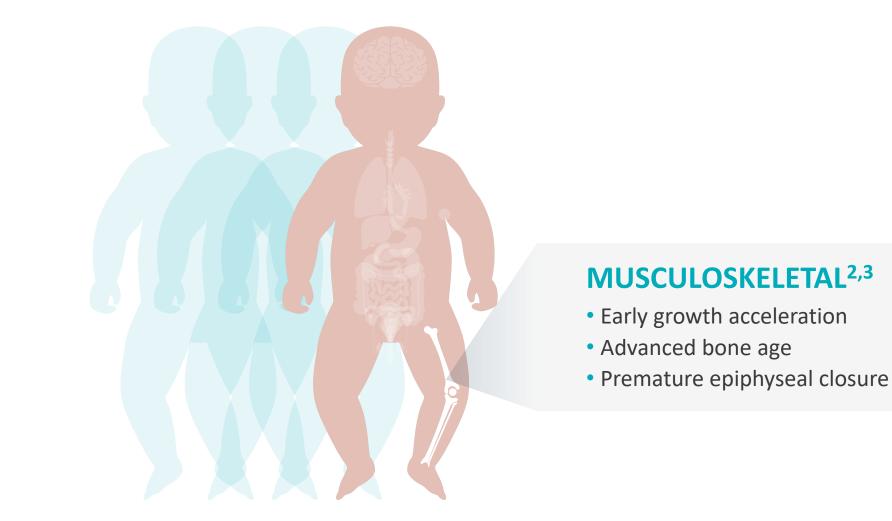




PUBARCHE^{2,3}

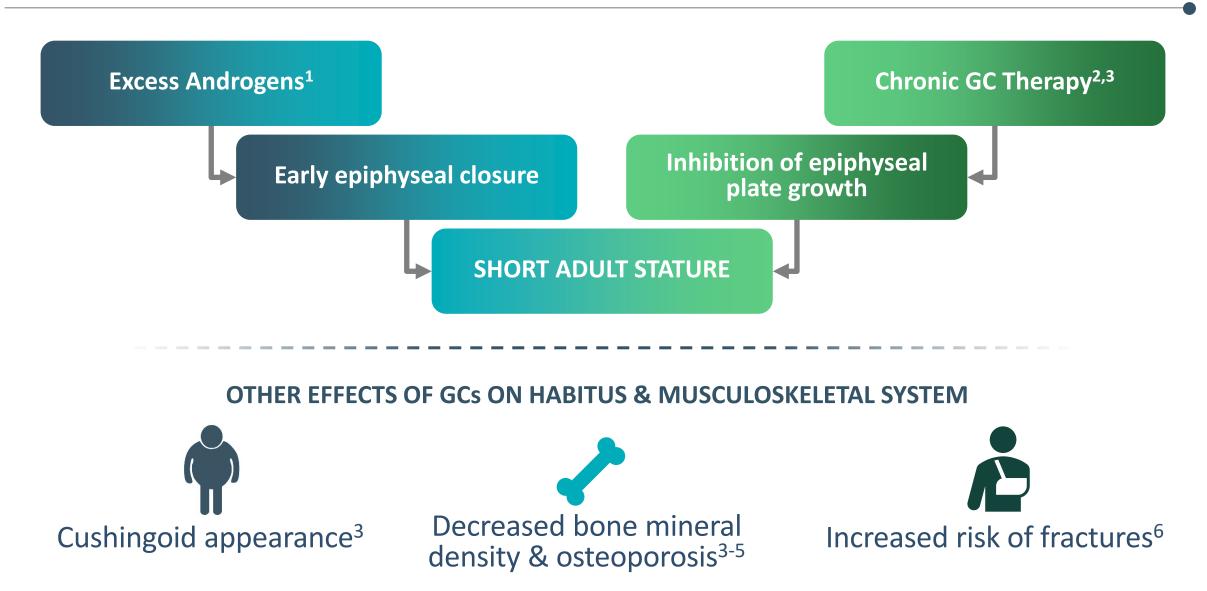
- Early childhood virilization
- Early onset adult body odor







SHORT STATURE IN CAH IS CAUSED BY ANDROGENS AND GCs



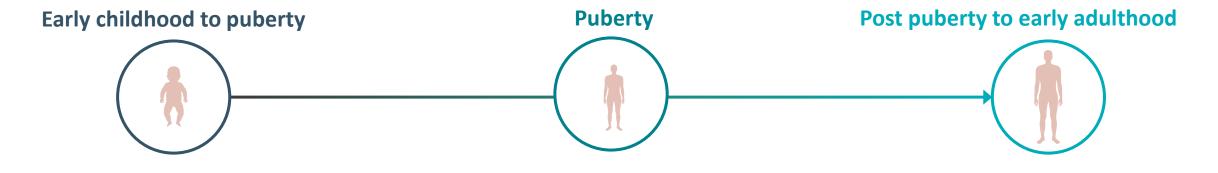
CAH, congenital adrenal hyperplasia; GC, glucocorticoid.

1. Merke D, et al. N Engl J Med. 2020;383:1248-61; 2. Lui J. Endocr Dev. 2011;20:187-93; 3. Claahsen-van der Grinten H, et al. Endocr Rev. 2021;bnab016. DOI: https://doi.org/10.1210/endrev/bnab016 [Epub ahead of print];

4. Chakhtoura Z, et al. Eur J Endocrinol. 2008;158:879-87; 5. Falhammer H, et al. J Clin Endocrinol Metab. 2007;92:4643-9; 6. Hummel S, et al. Clin Endocrinol. 2016;0:1-8.



MANAGEMENT GOALS OF PEDIATRIC CAH VARY WITH AGE



Goal of therapy: Maximize androgen suppression for normal growth and pubertal development

> **Challenges:** GC overdose may cause iatrogenic Cushing syndrome

Strategies to achieve balance:

Use only short-acting GCs Avoid attempts to normalize 17-OHP levels **Goal of therapy:** Maintain adequate androgen suppression despite rapid HC metabolism in puberty

> **Challenges:** Higher GC doses are associated with shorter adult height

Strategies to achieve balance: Use GC doses >17 mg/m²/d with care Prioritize height over normalizing hormone levels **Goal of therapy:** Prevent morbidity & mortality from adrenal crisis, preserve fertility

Challenges:

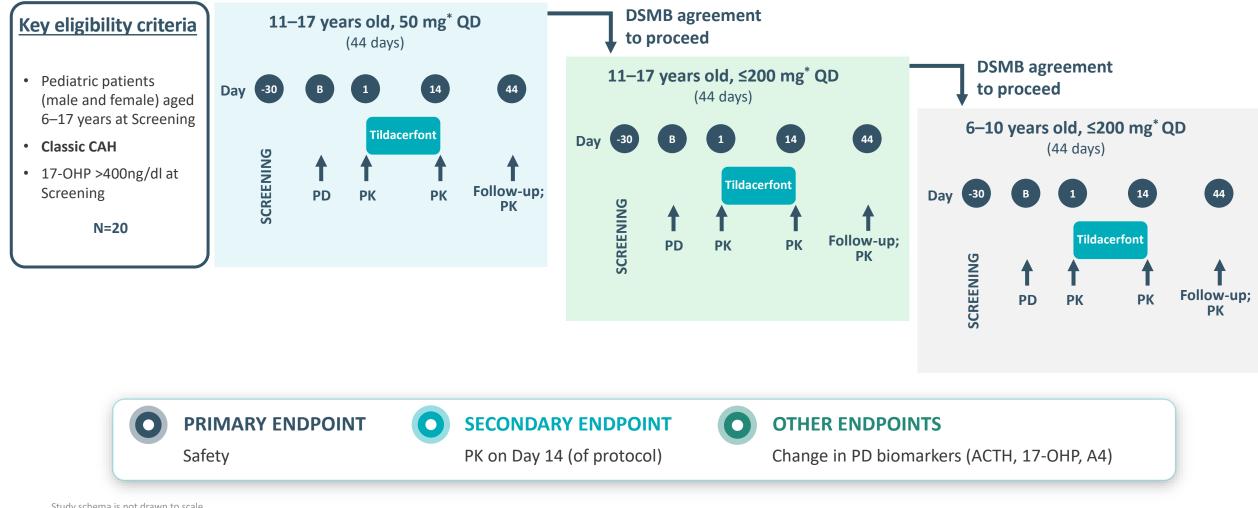
MC requirements vary through adolescence Medical needs vary by sex and gender

Strategies to achieve balance:

Continue GC & MC at transition to adulthood Refer to multidisciplinary transition clinics



PHASE 2 STUDY IN PEDIATRIC CLASSIC CAH



Study schema is not drawn to scale.

*Weight-based dosing at adult/effective dose equivalents.

17-OHP, 17-hydroxyprogesterone; A4, and rostenedione; ACTH, adrenocorticotropic hormone; B, baseline; CAH, congenital adrenal hyperplasia; DSMB, Data Safety and Monitoring Board; GC, glucocorticoid;

HCe, hydrocortisone equivalent(s); PD, pharmacodynamics; PK, pharmacokinetics; QD, once daily.

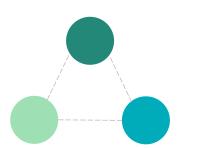
Spruce Biosciences. Data on file.



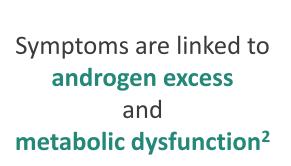
Polycystic Ovary Syndrome (PCOS) Overview



PCOS IS A COMMON, CHRONIC ENDOCRINE DISORDER



Heterogeneous in nature: typically characterized by hyperandrogenism, ovulatory dysfunction, and polycystic ovaries¹



OН

υOΗ



Results from a complex interplay of **hereditary and environmental factors;** exact cause is not fully elucidated³

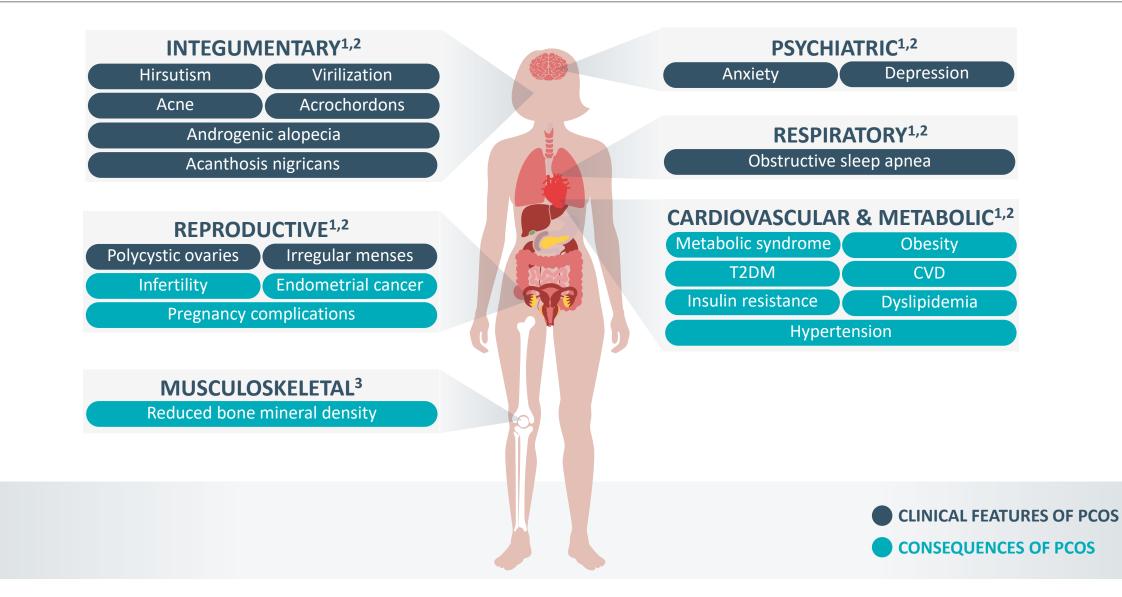
Affects up to **12% of reproductive aged women** in the US; the **most common cause of** anovulatory female infertility³

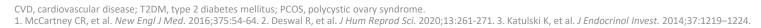
PCOS, polycystic ovary syndrome.

1. Williams T, et al. Am Fam Physician. 2016;94(2):106-113. 2. McCartney CR, et al. New Engl J Med. 2016;375:54-64. 3. Centers for Disease Control and Prevention. PCOS (polycystic ovary syndrome) and diabetes. Accessed October 15, 2021. https://www.cdc.gov/diabetes/basics/pcos.html.



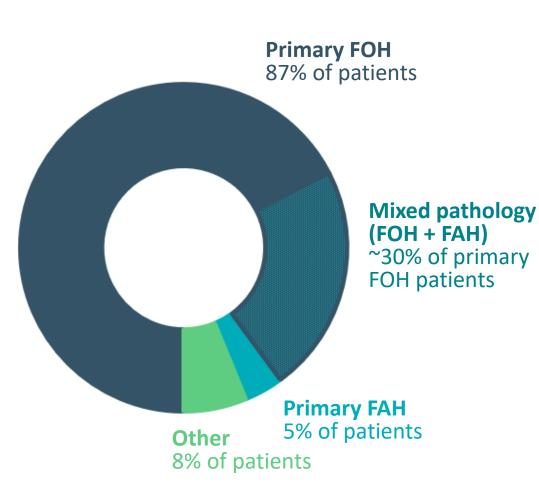
PCOS LEADS TO VARIED SYMPTOMATOLOGY AND LONG-TERM HEALTH RISKS







PCOS CAN BE CLASSIFIED ACCORDING TO SOURCE OF EXCESS ANDROGENS¹



Source of Androgen	GnRHag 17-OHP Response	DAST Testosterone Response	ACTH DHEAS Response
Primary FOH	High	High	Normal
Mixed pathology	High	High	High
Primary FAH	Normal	Normal	High
Other	Normal	Normal	Normal

17-OHP, 17-hydroxyprogesterone; ACTH, adrenocorticotropic hormone; DAST, dexamethasone androgen suppression test; DHEAS, dehydroepiandrosterone sulfate; FAH, functional adrenal hyperandrogenism; FOH, functional ovarian hyperandrogenism; GnRH, gonadotropin-releasing hormone; HPA, hypothalamic–pituitary–adrenal; HPO, hypothalamic–pituitary–ovarian; PCOS, polycystic ovary syndrome. 1. Rosenfield RL, Ehrmann DA. *Endocrine Rev.* 2016;37:467-520. 2. Moran C, et al. *Fertil Steril*. 1999;71:671-674.



CURRENTLY, ONLY SYMPTOMATIC TREATMENT EXISTS FOR PCOS

HYPERANDROGENEMIA

Hormonal contraception: 1st line treatment for hirsutism and acne

Antiandrogens: typically used as an adjunct to hormonal contraception to treat hirsutism

INFERTILITY

Estrogen modulators (clomiphene, letrozole): 1st line for anovulatory infertility

Insulin sensitization (metformin): adjuvant to prevent OHSS during IVF



IRREGULAR MENSTRUATION

Hormonal contraception: 1st line treatment for menstrual irregularities

Insulin sensitization (metformin): alternative for women intolerant to hormonal contraception



RISK MANAGEMENT

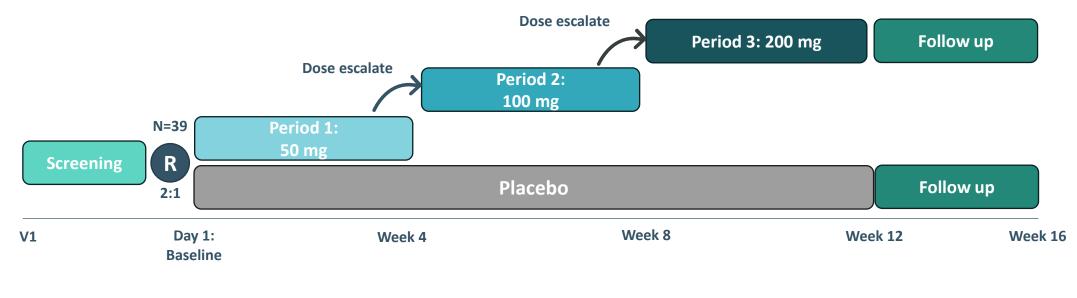
Lifestyle changes: weight loss via calorie restriction and exercise

Insulin sensitization (metformin): alternative option if lifestyle changes yield insufficient results



PHASE 2 CLINICAL PROOF OF CONCEPT STUDY

A Randomized, Placebo-Controlled, Dose Escalation Study to Evaluate the Safety and Efficacy of Tildacerfont in Adult Subjects with PCOS and Elevated Adrenal Androgens



Key eligibility criteria

- Females 18—40 years old with PCOS
- BMI <38 kg/m²
- DHEAS > ULN

Strata

• DHEAS (baseline DHEAS ≤ 1.2xULN, DHEAS > 1.2xULN)

Primary endpoint

Absolute reduction in DHEAS

Additional endpoints

- Safety and tolerability
- Reduction of DHEAS (baseline change > 30%; DHEAS < ULN)
- Change from baseline in ACTH, 17OHP, T, A4, 11OHA4, 11OHT, 11KA4, and 11KT



Financial Highlights and Commercial Opportunity



COMMERCIAL OPPORTUNITY – CLASSIC CAH



Large rare disease, up to 80,000 patients in U.S./EU



Orphan drug pricing anticipated

IP: Composition of Matter (2027)² / Methods (2038)



Orphan Drug Designation: U.S. (7.5 years) / EU (12 years)³

Assumes 6-month (U.S.) and 2-year (EU) extension if clinical trials are conducted in accordance with agreed-upon pediatric investigational plan



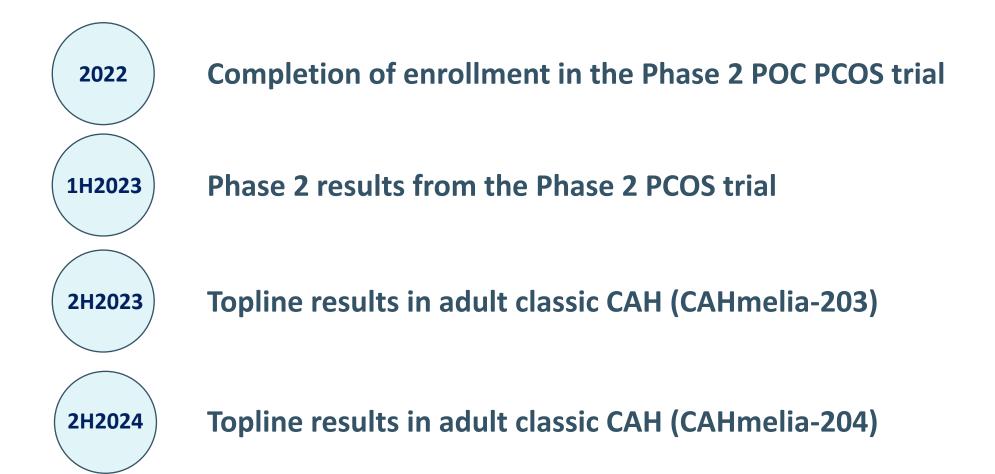
Preliminary Capital Structure and Summary Financials as of December 31, 2021

Capital Structure	Shares (M)
Shares Outstanding ¹	23.5
Equity Awards Issued and Outstanding ¹	2.7
Warrants	-
Fully Diluted Shares Outstanding ¹	26.2

Financials	000's
Cash, Cash Equivalents and Investments ¹	~\$121,400
Debt ¹²	\$5,000



^{1.} This amount is unaudited and preliminary and is subject to completion of financial closing procedures. As a result, this amount may differ materially from the amount that will be reflected in the Company's financial statements as of and for the quarter ended December 31, 2021.





INVESTMENT HIGHLIGHTS

Tildacerfont poised to transform treatment paradigm in classic CAH	Two late-stage clinical studies initiated; Data expected in 2H-2023 (CAHmelia-203) and 2H-2024 (CAHmelia-204).
Multiple expansion opportunities	Phase 2 programs in pediatric classic CAH (6 to 17 years of age) and polycystic ovary syndrome (FAH-PCOS) initiated
Significant commercial opportunity	~\$3B+ worldwide market opportunity in classic CAH
Strong IP protection	Comprehensive IP portfolio based on issued patents provides exclusivity to 2038 in U.S. combined with Orphan Drug Designation in U.S. and Europe
ர்ச்ர் Highly experienced leadership team	Management has contributed to development and commercial launch of endocrine and rare disease products



Focused on developing and commercializing novel therapies for rare endocrine disorders with significant unmet medical need