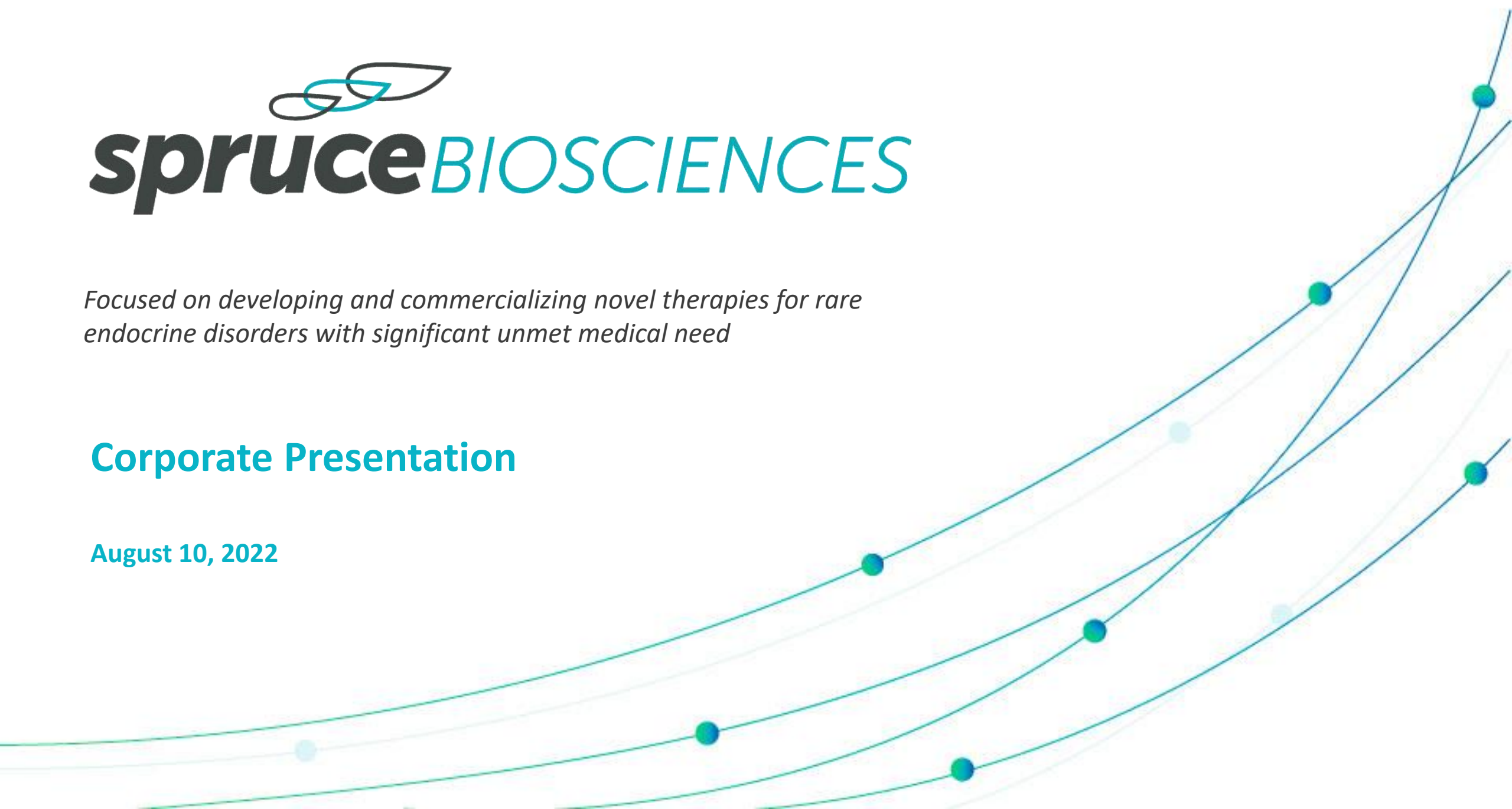




Focused on developing and commercializing novel therapies for rare endocrine disorders with significant unmet medical need

Corporate Presentation

August 10, 2022



FORWARD-LOOKING STATEMENTS

This presentation contains forward-looking statements about Spruce Biosciences, Inc. (“we,” “Spruce” or the “Company”). All statements other than statements of historical facts contained in this presentation are forward-looking statements, including statements about our strategy, our expectations regarding the timing and achievement of our product candidate’s development activities and ongoing and planned clinical trials, and plans and expectations for future operations. These forward-looking statements are subject to a number of risks, uncertainties and assumptions, including, but not limited to: the effects of the evolving and ongoing COVID-19 pandemic; our limited operating history; net losses; our expectation that we will incur net losses for the foreseeable future, and that we may never be profitable; our need for additional funding and related risks for our business, product development programs and future commercialization activities; the timing and success of clinical trials we conduct; the ability to obtain and maintain regulatory approval of our product candidate; the ability to commercialize our product candidate; our ability to compete in the marketplace; risks regarding our license agreement; our ability to obtain and maintain intellectual property protection for our product candidate; and our ability to manage our growth. We operate in a very competitive and rapidly changing environment. New risks emerge from time to time. It is not possible for our management to predict all risks, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements we may make. In light of these risks, uncertainties and assumptions, the forward-looking events and circumstances discussed in this presentation may not occur and actual results could differ materially and adversely from those anticipated or implied in the forward-looking statements. Except as required by law, neither we nor any other person assumes responsibility for the accuracy and completeness of the forward-looking statements. We undertake no obligation to update publicly any forward-looking statements for any reason after the date of this presentation to conform these statements to actual results or to changes in our expectations.

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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



Large Orphan Market Primed for Innovation

~\$3B+ market opportunity in CAH with high unmet need, low competitive intensity, and no new therapeutic options in ~50 years



Transformative Treatment Paradigm in CAH

Tildacerfont is a **second generation CRF-1 receptor antagonist** with clear MOA, designed to reduce disease and steroid burden



Robust Clinical Data in Adult CAH

Two positive Phase 2a studies demonstrating **~80% reduction in biomarkers**; 235 subjects dosed across eight studies to date



Potentially Registrational Studies Ongoing

Data from two studies in Adult-CAH patients expected in **2H-2023 (CAHmelia-203)** and **2H-2024 (CAHmelia-204)**



Multiple Expansion Opportunities

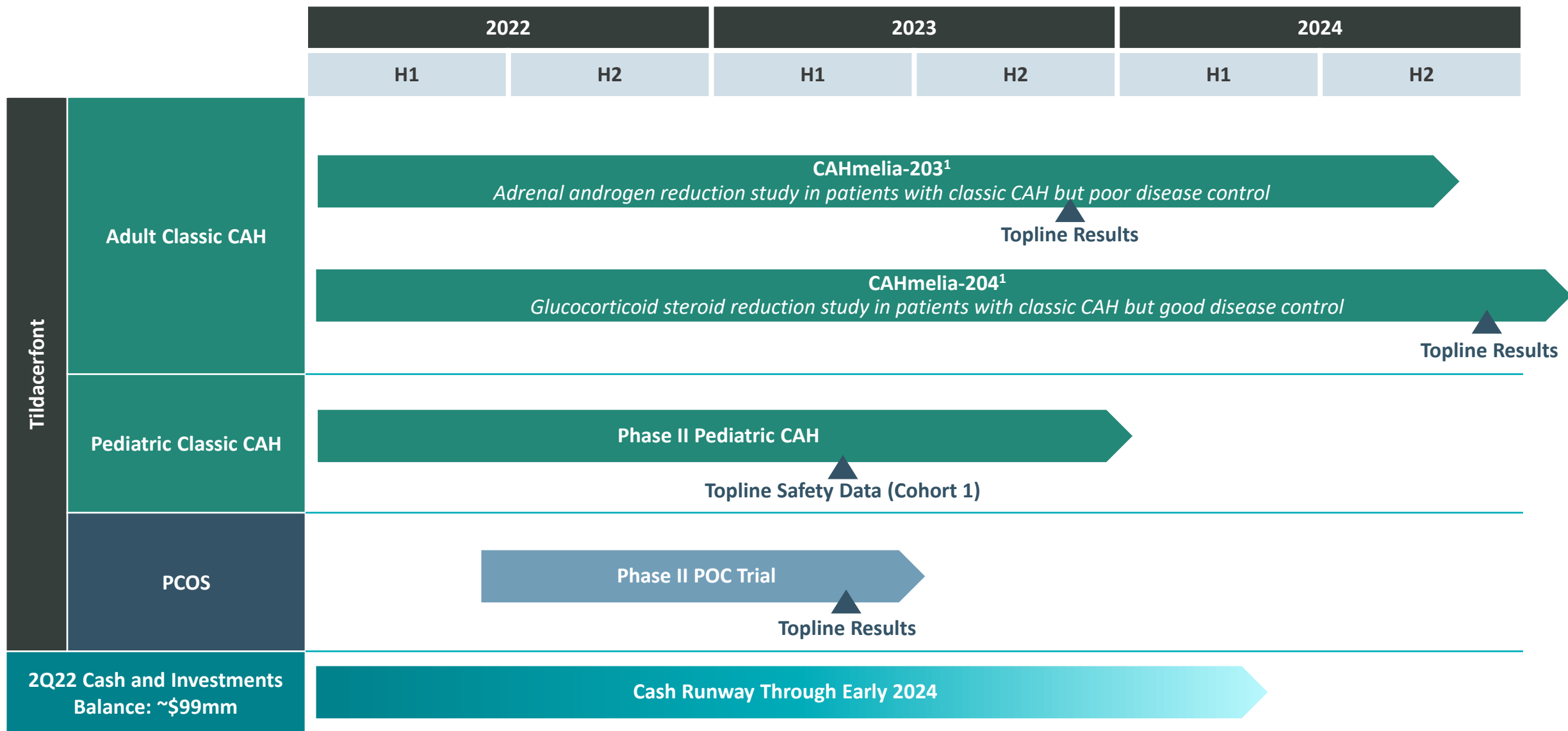
Phase 2 programs initiated in pediatric CAH and polycystic ovary syndrome (PCOS) with **data expected in 1H-2023**



Strong IP Protection

Comprehensive IP portfolio with **exclusivity to 2038** combined with **Orphan Drug Designation** in U.S. and E.U.

TILDACERFONT PIPELINE AND CATALYSTS



Note: CAH is congenital adrenal hyperplasia, PCOS is polycystic ovary syndrome.

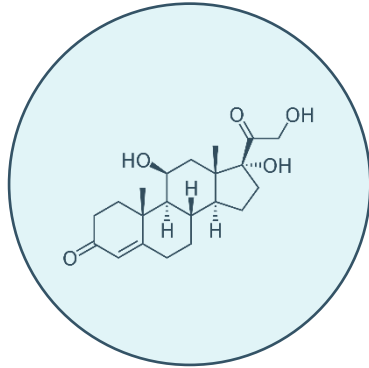
1. Patients in each of CAHmelia-203 and CAHmelia-204 rollover into an open-label extension following the placebo-controlled period for 58 weeks and 52 weeks, respectively. Topline data from these trials along with data from the open-label extension may form the basis for registrational filings in the United States and Europe.

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.

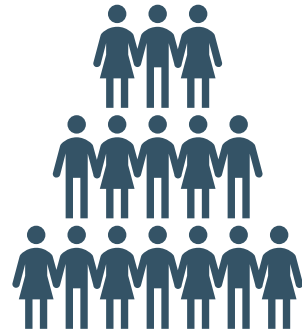


Due to the severity and high incidence of the disease, most developed countries have established newborn screening programs to test for classic CAH at birth.



We estimate the total classic CAH population to be approximately 20,000-30,000 people in the U.S., approximately 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



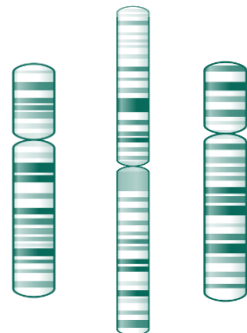
Classic 21-OHD CAH¹

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

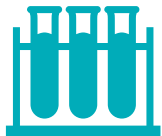
CYP11B1 1:100,000
CYP17A1, HSD3B2, POR, STAR very rare

DIAGNOSIS OF 21-OHD CAH



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
- » Genetic testing for *CYP21A2* mutations if hormone levels are non-diagnostic

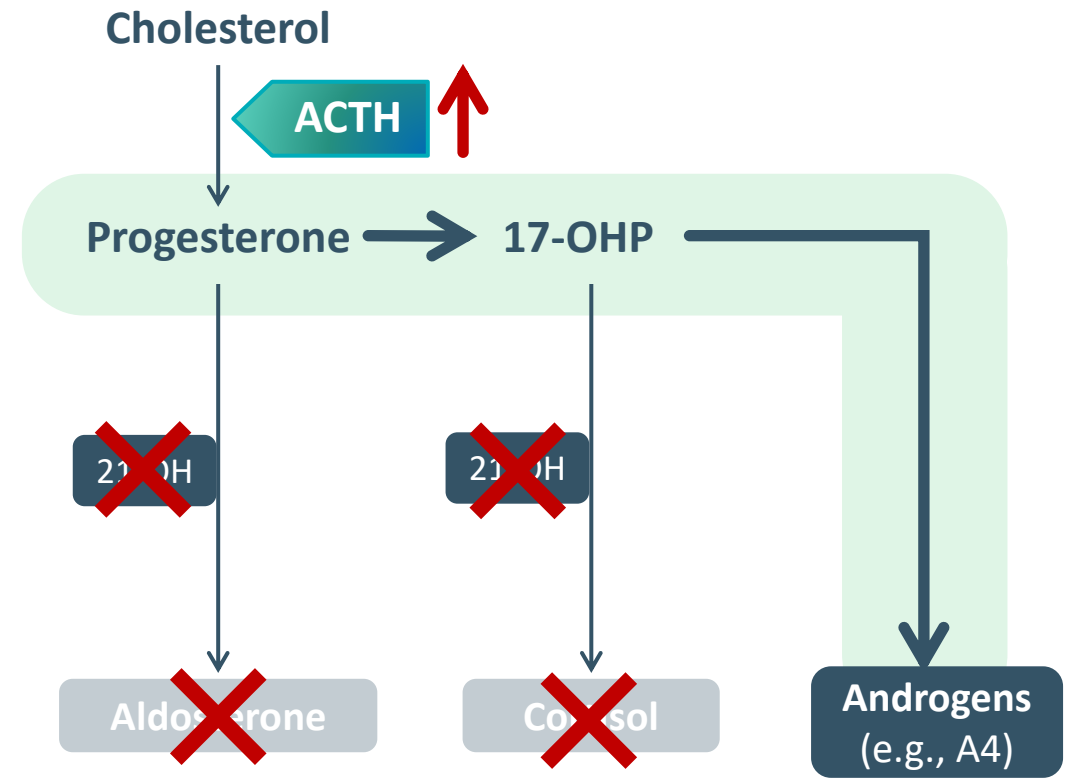
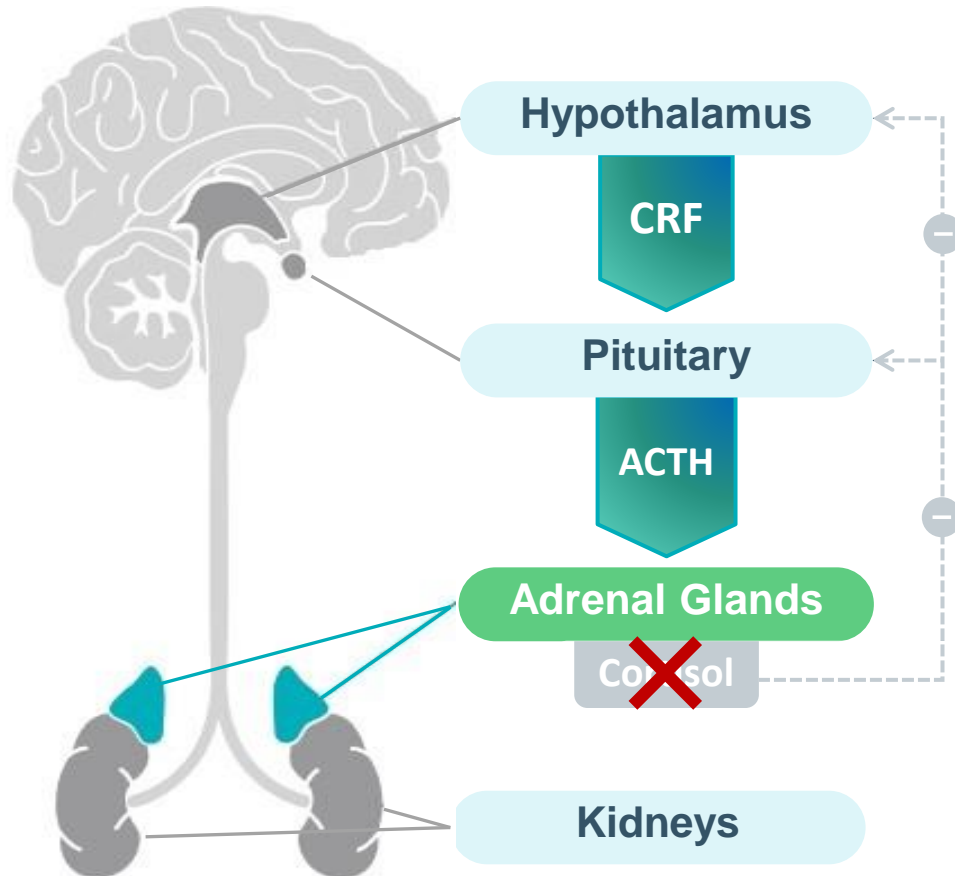


PRENATAL DIAGNOSIS for carriers¹

- » 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

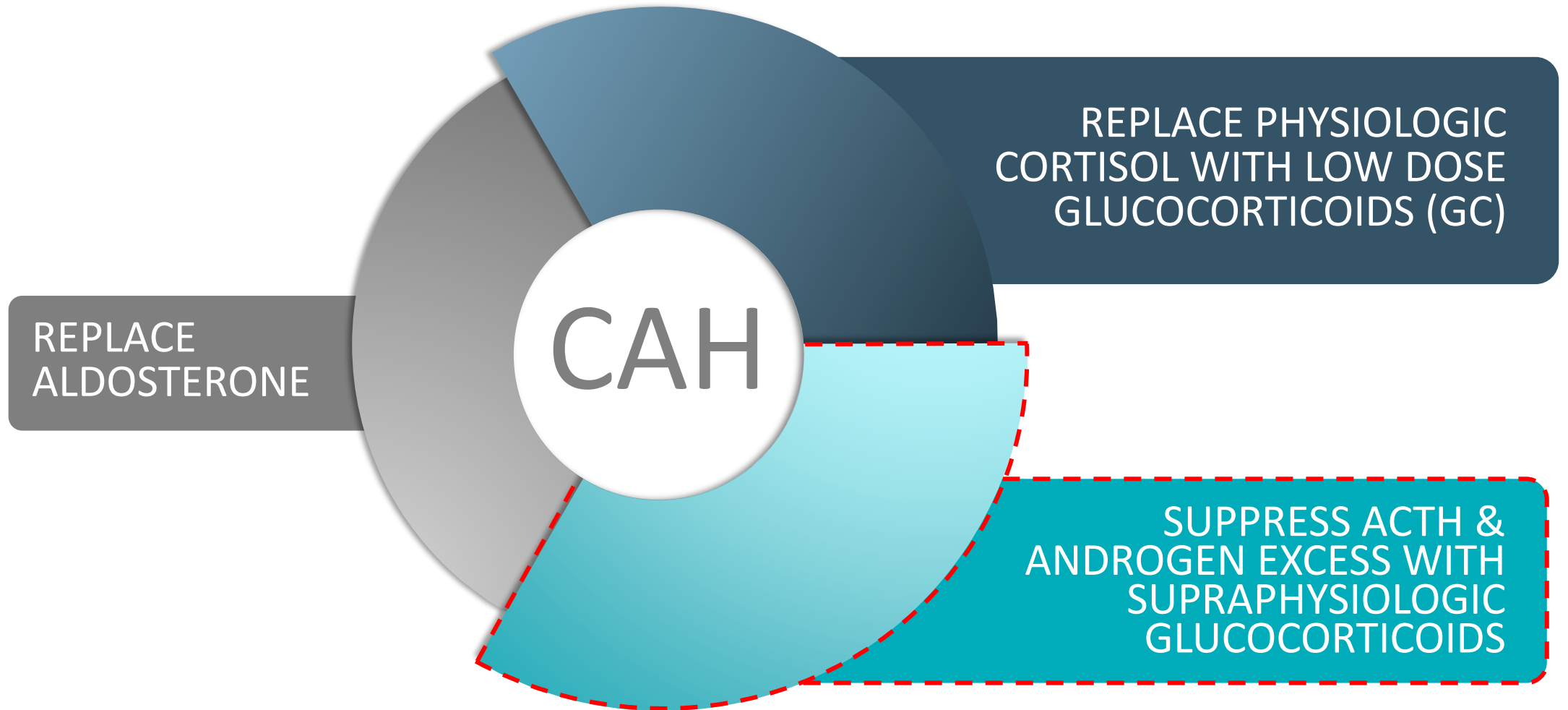
- Deficiency in 21-OH results in lack of cortisol & aldosterone production
- Lack of cortisol upregulates CRF & ACTH leading to hyperplasia of the adrenal glands
- 17-OHP is routed to the androgen pathway, resulting in excess androgens



17-OHP, 17-hydroxyprogesterone; 21-OH, 21-hydroxylase; 21-OHD, 21-hydroxylase deficient; ACTH, adrenocorticotropic hormone; CAH, congenital adrenal hyperplasia; CRF, corticotropin releasing factor; HPA, hypothalamic-pituitary-adrenal.

Engels M, et al. *Endocr Rev.* 2019;40:973-87.

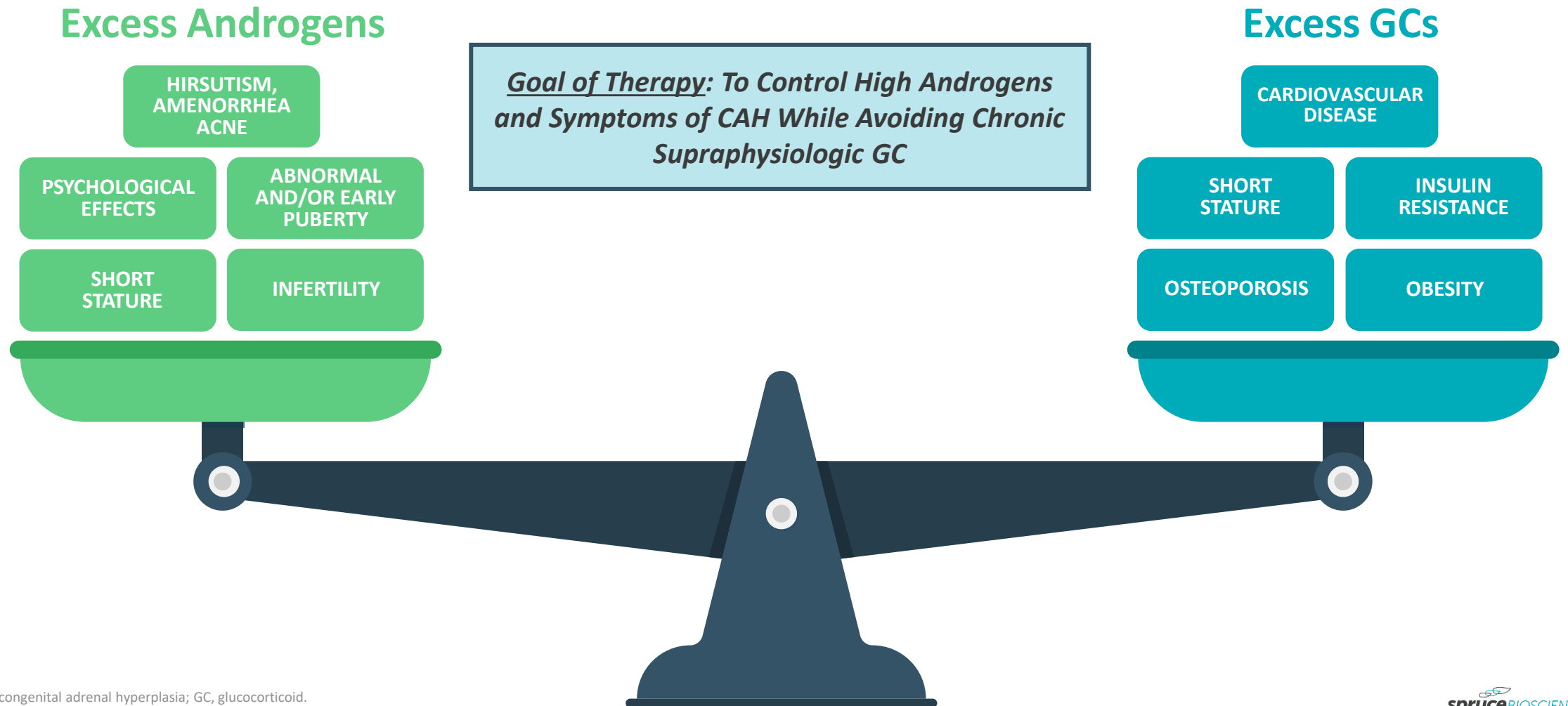
MANAGEMENT OF CLASSIC CAH REQUIRES A THREE-PRONGED APPROACH BUT UNMET NEED REMAINS



 Focus for Spruce

NOVEL THERAPIES ARE NEEDED IN CLASSIC CAH

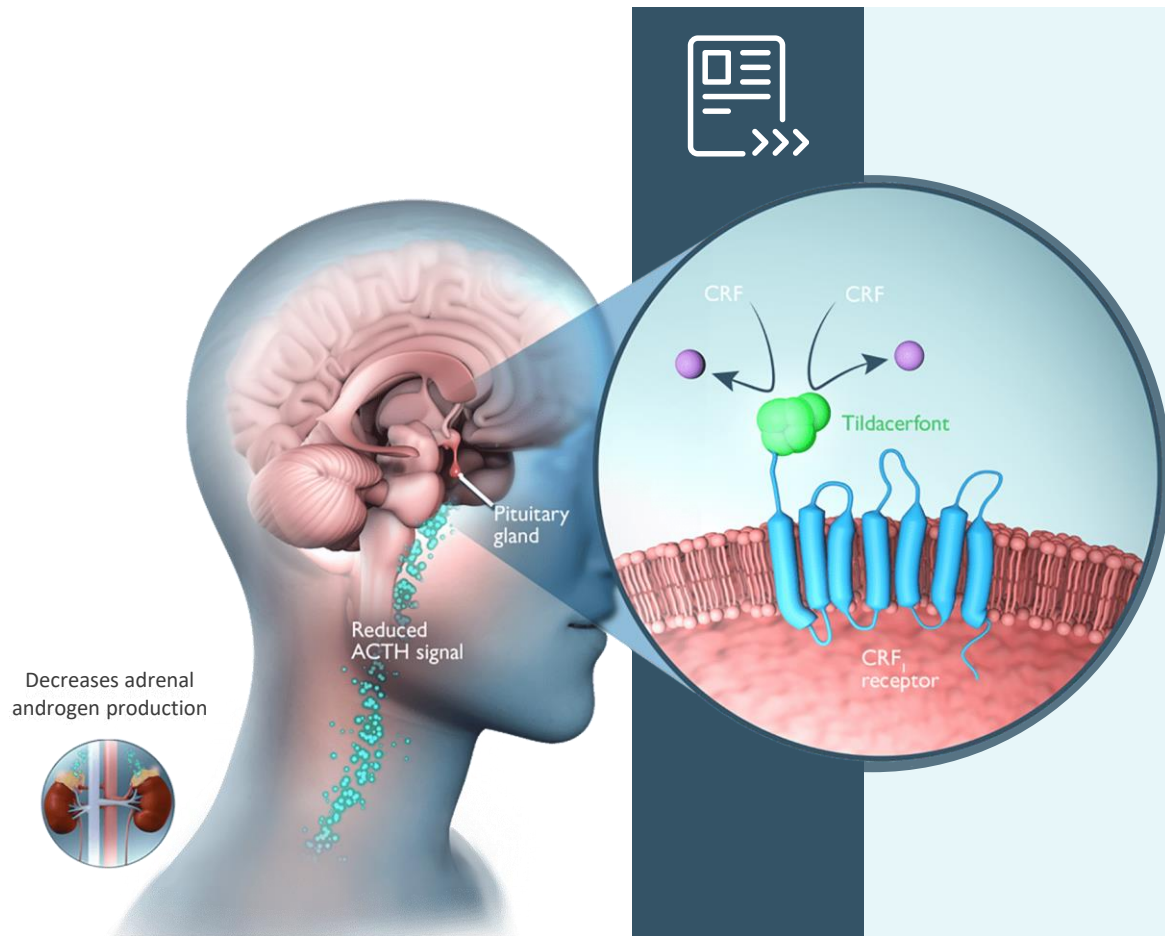
Glucocorticoids have been the SoC since the 1950s¹ **but contribute to the burden of disease. Supraphysiologic doses are required to control high adrenal androgens which result in comorbidities linked to excessive chronic GC use. Therefore, novel therapies are needed**



Tildacerfont


spruceBIOSCIENCES

TILDACERFONT IS A NOVEL CRF₁ RECEPTOR ANTAGONIST



Tildacerfont is an oral, second generation CRF₁ receptor antagonist¹



Tildacerfont binds to CRF₁ receptors in the pituitary gland, blocking receptor stimulation by the hypothalamus¹

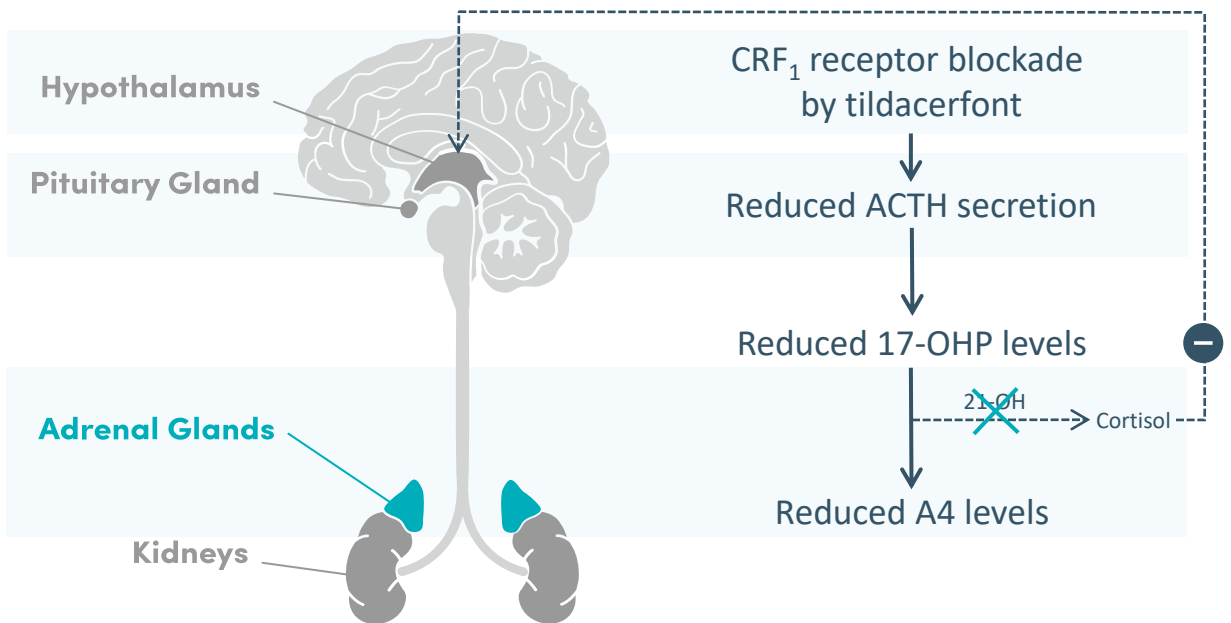
TILDACERFONT DESIGNED TO REDUCE ADRENAL ANDROGEN PRODUCTION



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}

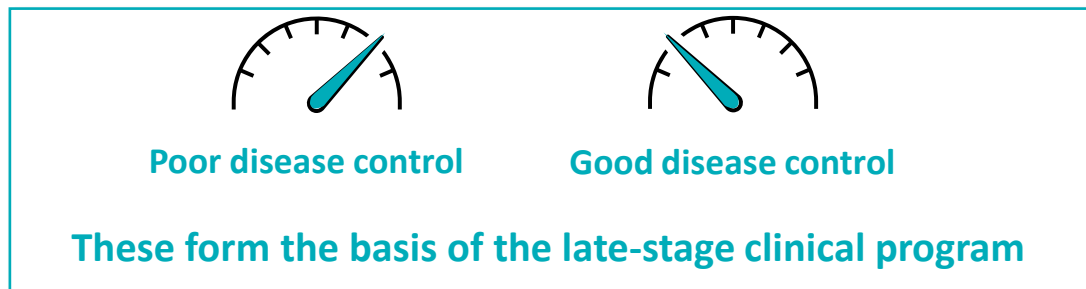


Adult Classic CAH Clinical Development Program



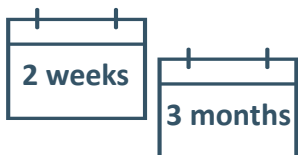
KEY FINDINGS FROM PHASE 1 AND 2 STUDIES: SUMMARY

Two distinct patient populations:¹



Efficacy

Treatment with tildacerfont resulted in:¹



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:

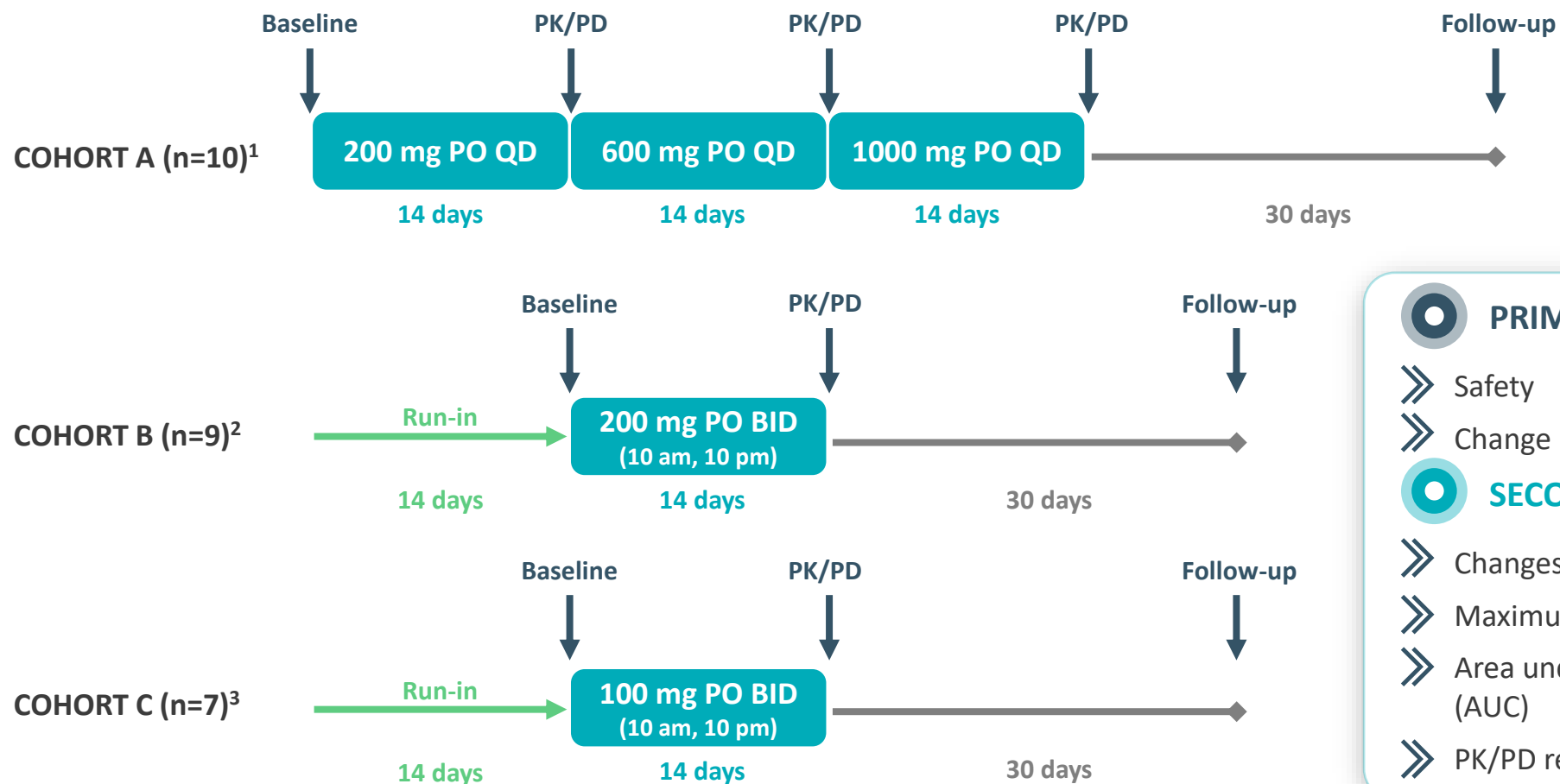


No drug-related SAEs reported to date^{1,2}

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

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

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



PRIMARY ENDPOINTS²

- » Safety
- » Change in 17-OHP

SECONDARY ENDPOINTS²

- » Changes in PD markers
- » Maximum plasma concentration (C_{max})
- » Area under the concentration-time curve (AUC)
- » PK/PD relationships

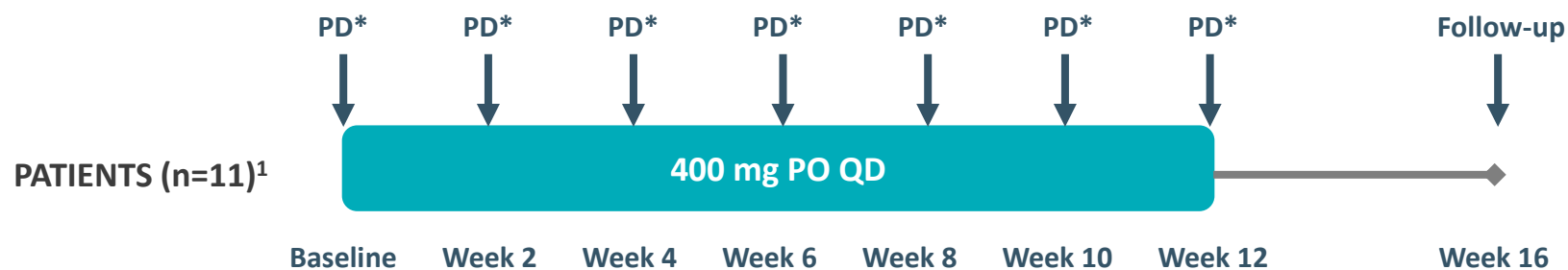
17-OHP, 17-hydroxyprogesterone; BID, twice daily; PD, pharmacodynamics; PK, pharmacokinetics; PO, oral administration; QD, once daily.

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

2. 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



PRIMARY ENDPOINT²

» Safety and tolerability



SECONDARY ENDPOINTS²

» Change from baseline in 17-OHP, ACTH, and A4

*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.

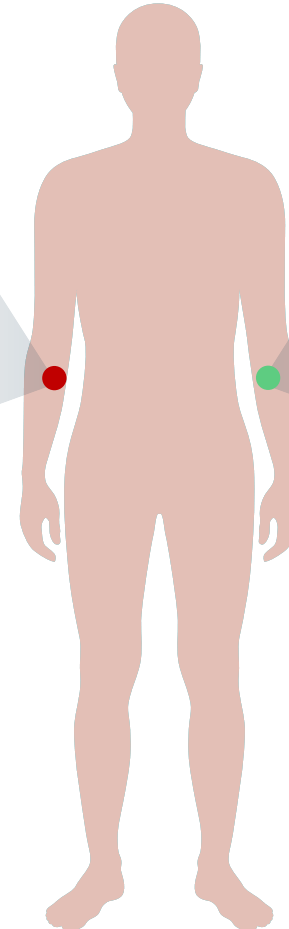
1. Sarafoglou K, et al. J Clin Endocrinol Metab. 2021:dgab438. DOI: <https://doi.org/10.1210/clinem/dgab438> [Epub ahead of print]; 2. Clinical Trial NCT03687242. Available at: <https://clinicaltrials.gov/ct2/show/NCT03687242> (last accessed July 2021).

UNMET MEDICAL NEEDS ACCORDING TO DISEASE STATUS

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

POOR DISEASE CONTROL¹

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



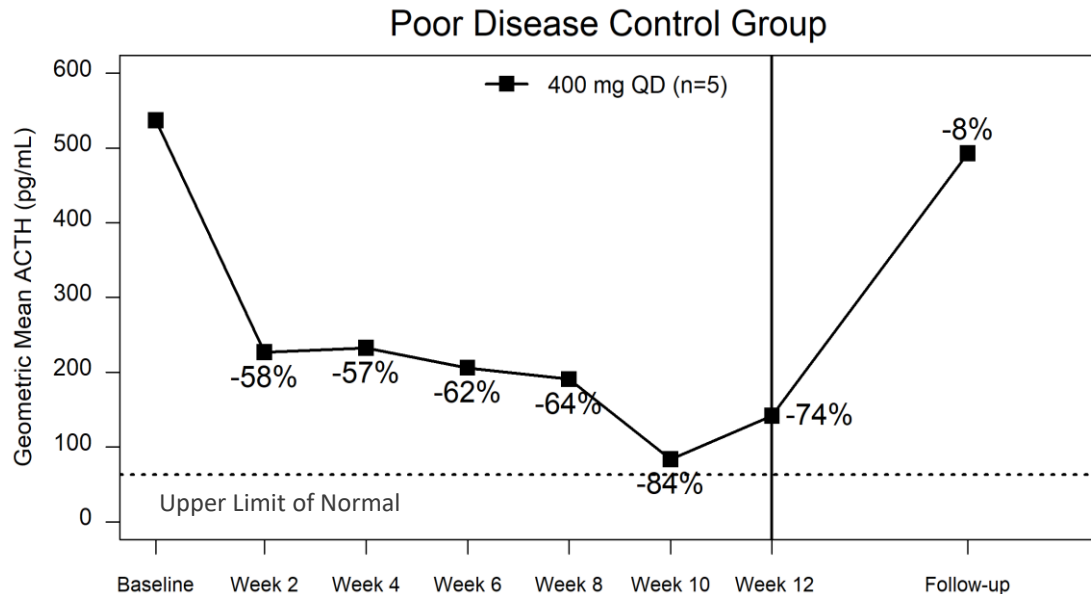
GOOD DISEASE CONTROL¹

- Normal or near normal adrenal androgens
- Unmet need to **reduce GC dose** and improve related clinical outcomes

SPR001-202: ROBUST REDUCTION IN ACTH and A4 IN POORLY CONTROLLED DISEASE

In the Poor Disease Control group, a robust initial drop in ACTH and A4 was seen at week 2, followed by further reduction over 12 weeks; there was a maximum reduction in **ACTH and A4** of **84% and 79%**, respectively, at week 10.

POOR DISEASE CONTROL - ACTH



- Normalization of ACTH achieved in 60% of patients*

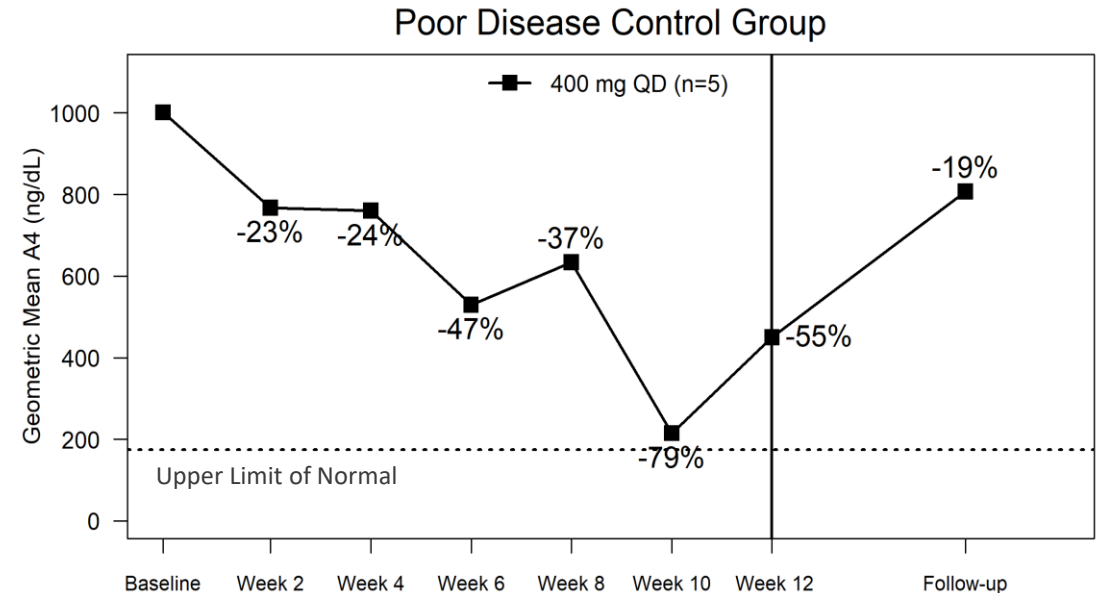
3 patients were on dexamethasone and excluded from analysis

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

ACTH, adrenocorticotrophic hormone; 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].

POOR DISEASE CONTROL – A4

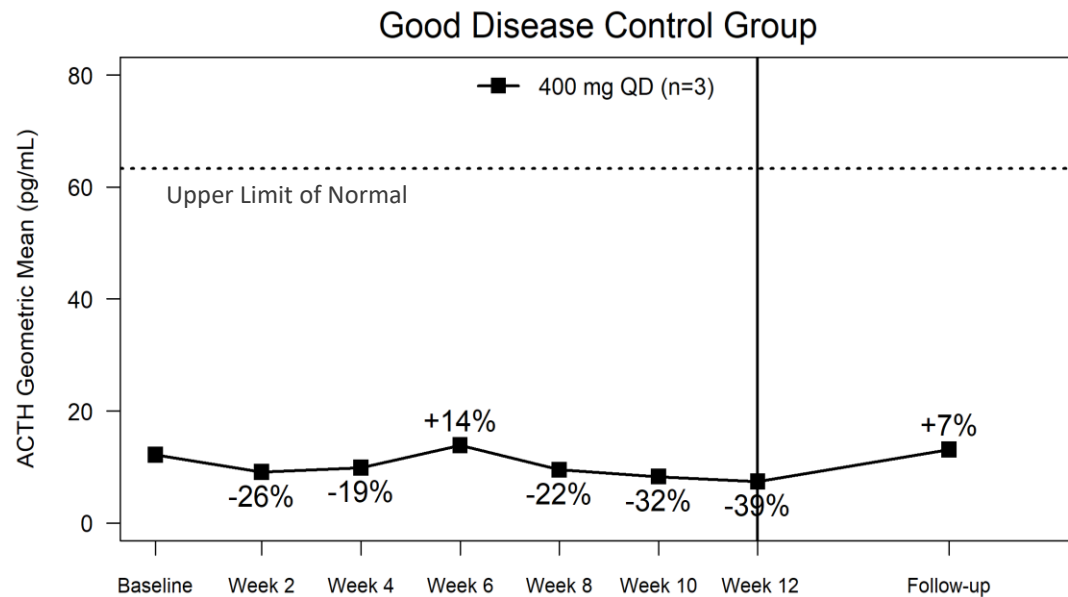


- Normalization of A4 achieved in 40% of patients

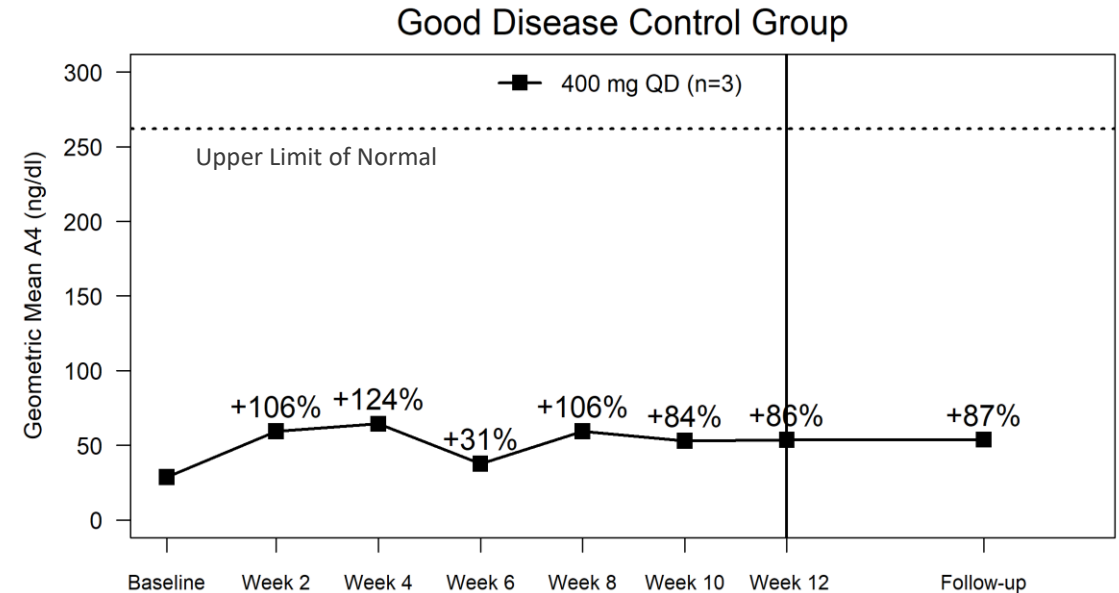
SPR001-202: NO EXCESSIVE SUPPRESSION OF ACTH and A4 IN GOOD DISEASE CONTROL

In the Good Disease Control group, no excessive suppression in ACTH and A4 was seen in the study, including no adverse events of hypoadrenalism.

GOOD DISEASE CONTROL - ACTH



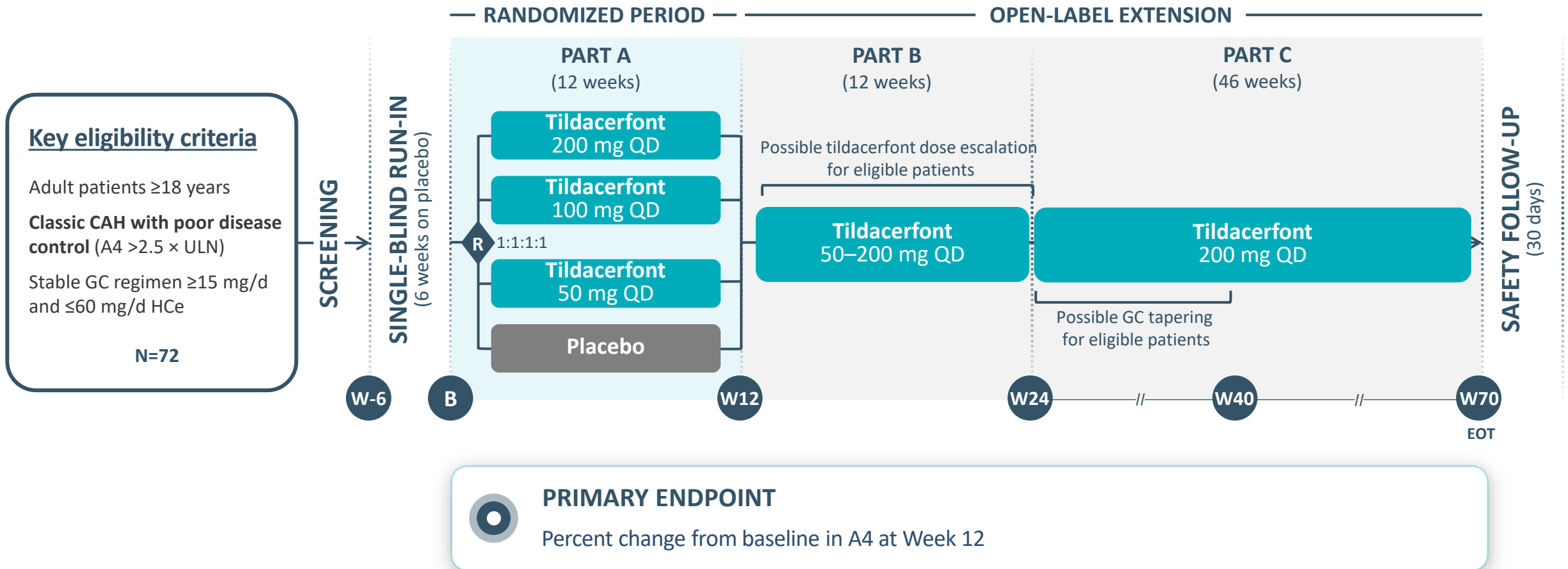
GOOD DISEASE CONTROL – A4





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: STUDY ENDPOINTS



PRIMARY ENDPOINT

- » Percent change from baseline in A4 at Week 12



SECONDARY ENDPOINTS

- » Proportion of patients who achieve $A4 \leq \text{ULN}$ at Week 12
- » Proportion of patients who achieve $17\text{-OHP} \leq \text{Target}$ at Week 12
- » Change in lesion volume of TART(s) at Week 12
- » Adverse events and serious adverse events



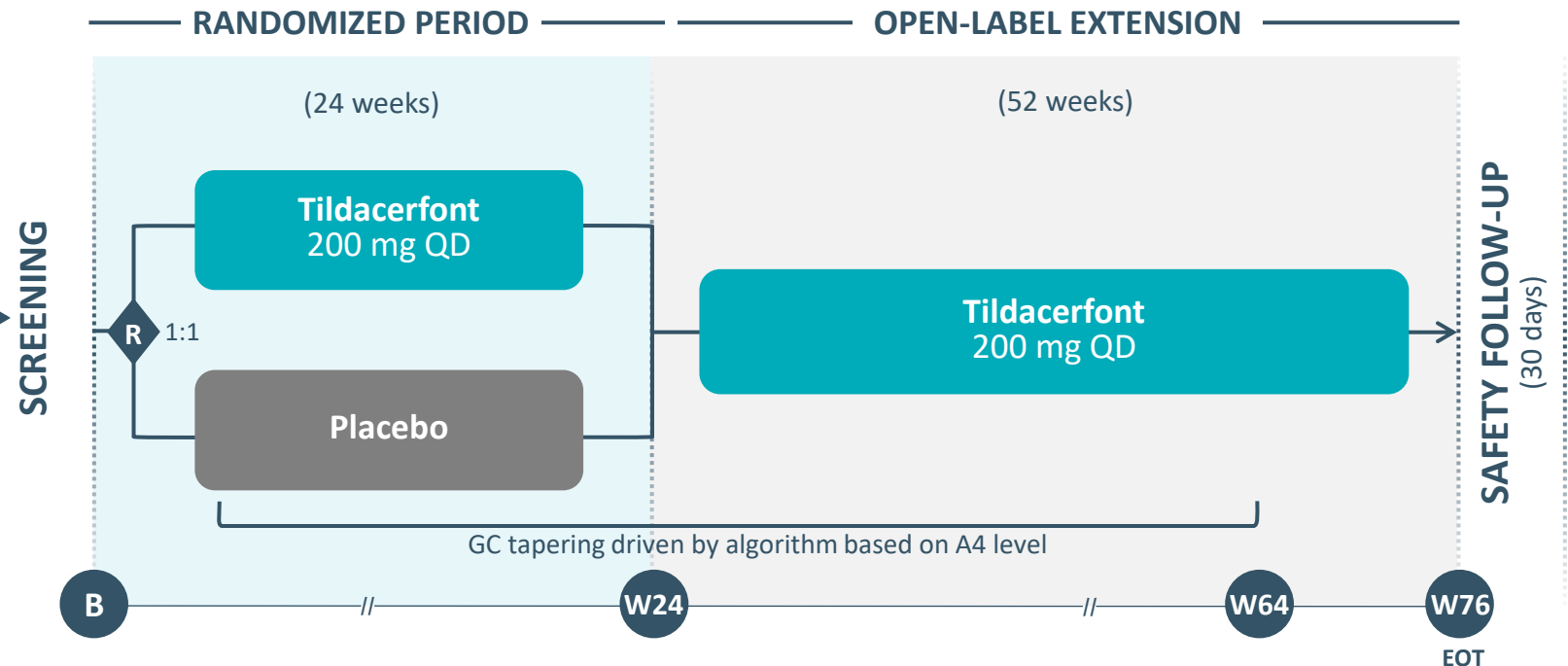
KEY EXPLORATORY ENDPOINTS

- » 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 lesion volume of TART(S) at Week 70
- » Proportion of subjects with ≥ 5 mg/day (HCe) reduction with $A4 \leq \text{ULN}$ 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

Key eligibility criteria
Adult patients ≥ 18 years
Classic CAH with good disease control
($LLD \leq A4 \leq 2.5 \times ULN$)
Stable GC regimen ≥ 30 mg/d and ≤ 60 mg/d HCe
N=90



PRIMARY ENDPOINT
Proportion of subjects with ≥ 5 mg/day (HCe) reduction with $A4 \leq ULN$ at Week 24

CAHmelia-204: STUDY ENDPOINTS



PRIMARY ENDPOINT

- » Proportion of subjects with ≥ 5 mg/day (HCe) reduction with $A4 \leq \text{ULN}$ 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 body weight at Week 24; percent change in body weight from baseline after 52 weeks on tildacerfont treatment
- » Proportion of subjects with improvement in at least one cardiovascular risk factor at Week 24



KEY EXPLORATORY ENDPOINTS

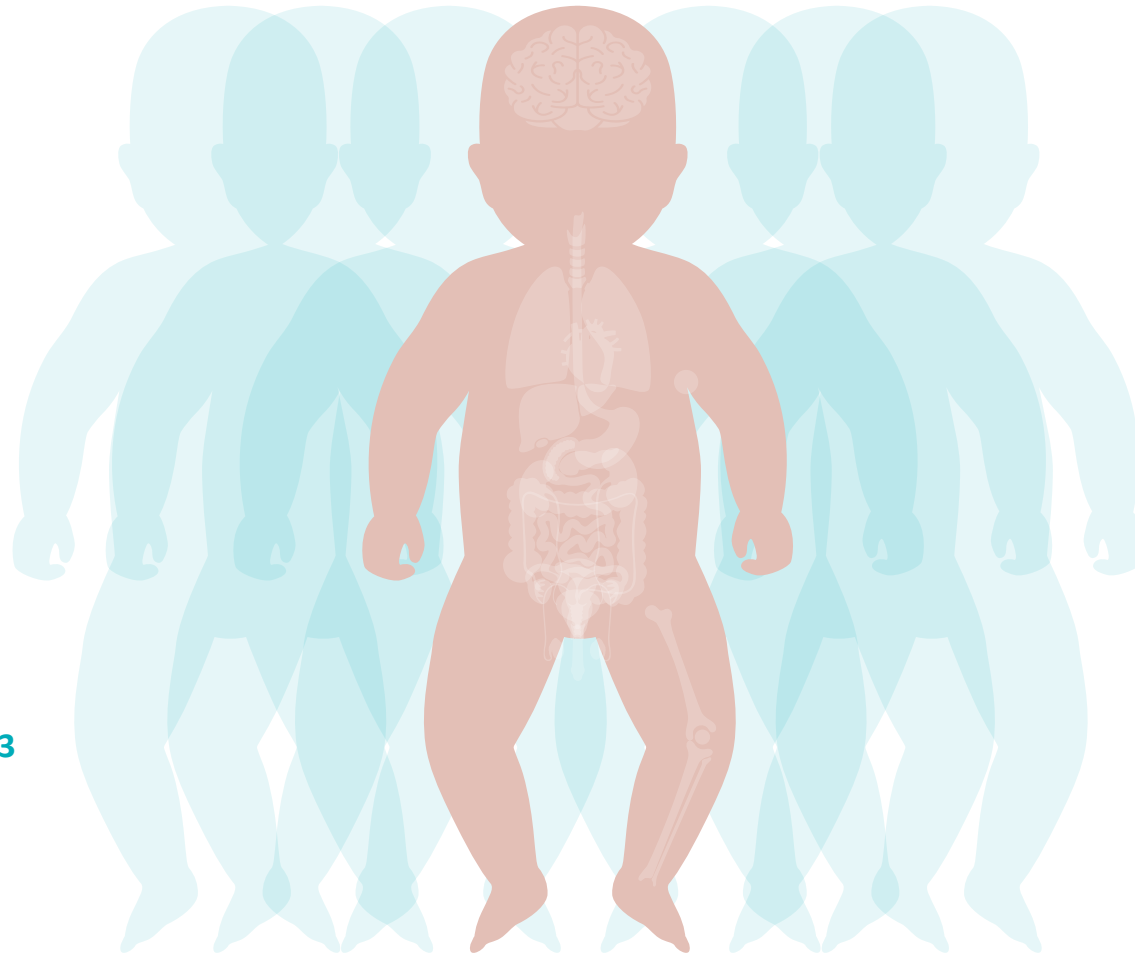
- » Proportion of subjects with ≥ 8 mg/day (HCe) reduction with $A4 \leq \text{ULN}$ at Week 24
- » Change from baseline in the SF-36 total score at Week 24
- » Change from baseline in HOMA-IR, weight, waist circumference, bone mineral density after 52 weeks of tildacerfont treatment
- » Proportion of subjects with GC dose ≤ 25 mg/day (HCe) with $A4 \leq \text{ULN}$ at Week 24 and after 52 weeks of tildacerfont treatment

Pediatric Classic CAH Overview

NOVEL THERAPIES NEEDED TO BALANCE ANDROGENS & GCs IN CHILDREN



Balance between androgen levels and GC excess is critical to avoid irreversible impacts on childhood development¹⁻³



Novel therapies are needed to reduce the need for supraphysiologic GCs

CAH, congenital adrenal hyperplasia; GC, glucocorticoid.

1. Claahsen-van der Grinten HL, et al. *Endocr Rev.* 2021;bnab016. DOI: <https://doi.org/10.1210/endo/bnab016> [Epub ahead of print]; 2. Pijnenburg-Kleizen KJ, et al. *J Pediatr Endocrinol Metab.* 2019;32(10):1055-63;

3. Merke DP, et al. *N Engl J Med.* 2020;383:1248-61.

CLASSIC CAH PRESENTS IN INFANCY & EARLY CHILDHOOD

BEHAVIORAL

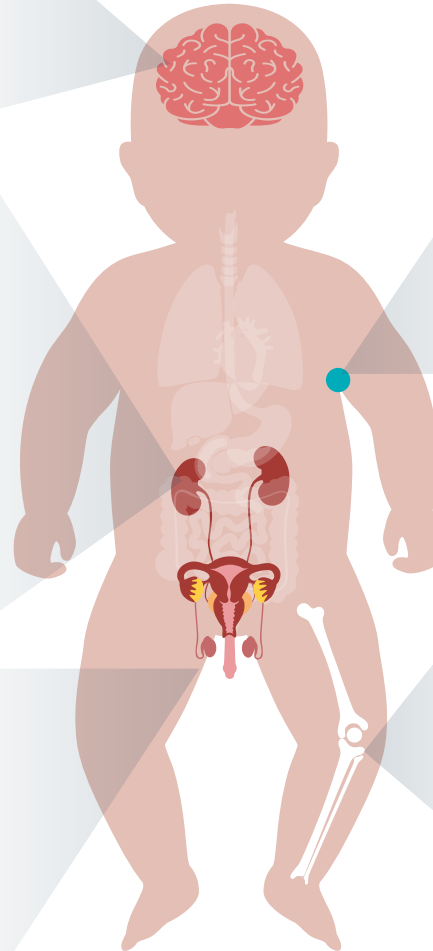
Increased prevalence of ADHD⁴

ADRENAL (SALT-WASTING) CRISIS

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

GENITOURINARY

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



PUBARCHE^{2,3}

- Early childhood virilization
- Early onset adult body odor

MUSCULOSKELETAL^{2,3}

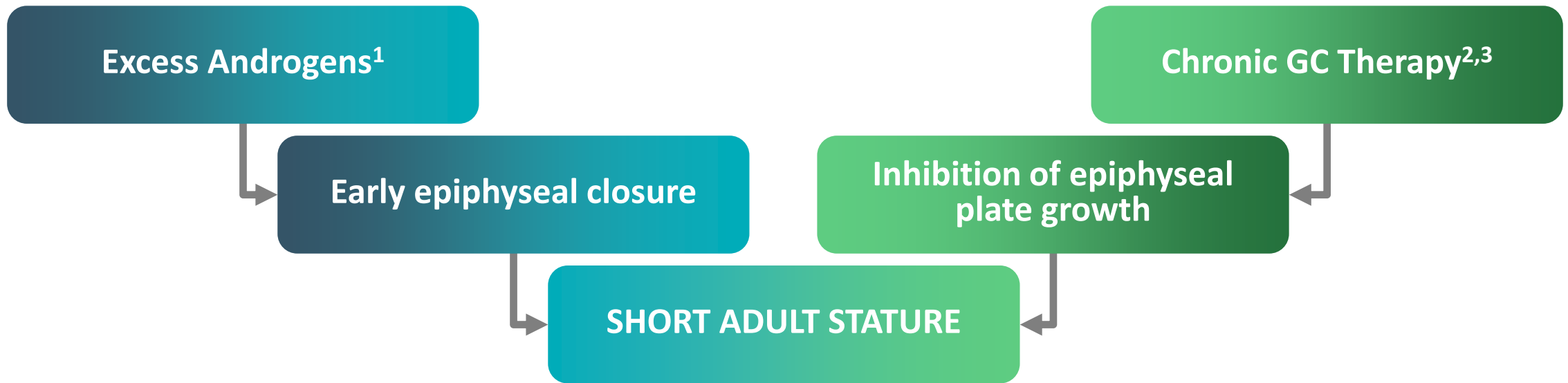
- Early growth acceleration
- Advanced bone age
- Premature epiphyseal closure

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/edrev/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.

SHORT STATURE IN CAH IS CAUSED BY ANDROGENS AND GCs



OTHER EFFECTS OF GCs ON HABITUS & MUSCULOSKELETAL SYSTEM



Cushingoid appearance³

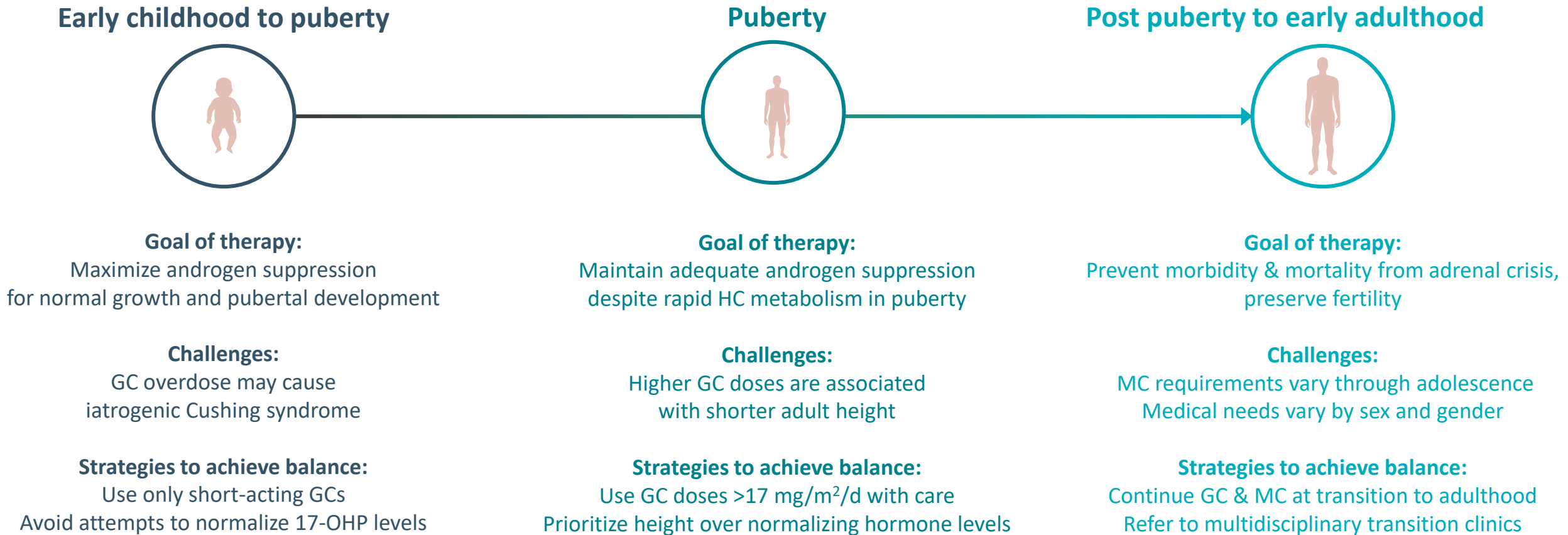


Decreased bone mineral density & osteoporosis³⁻⁵



Increased risk of fractures⁶

MANAGEMENT GOALS OF PEDIATRIC CAH VARY WITH AGE

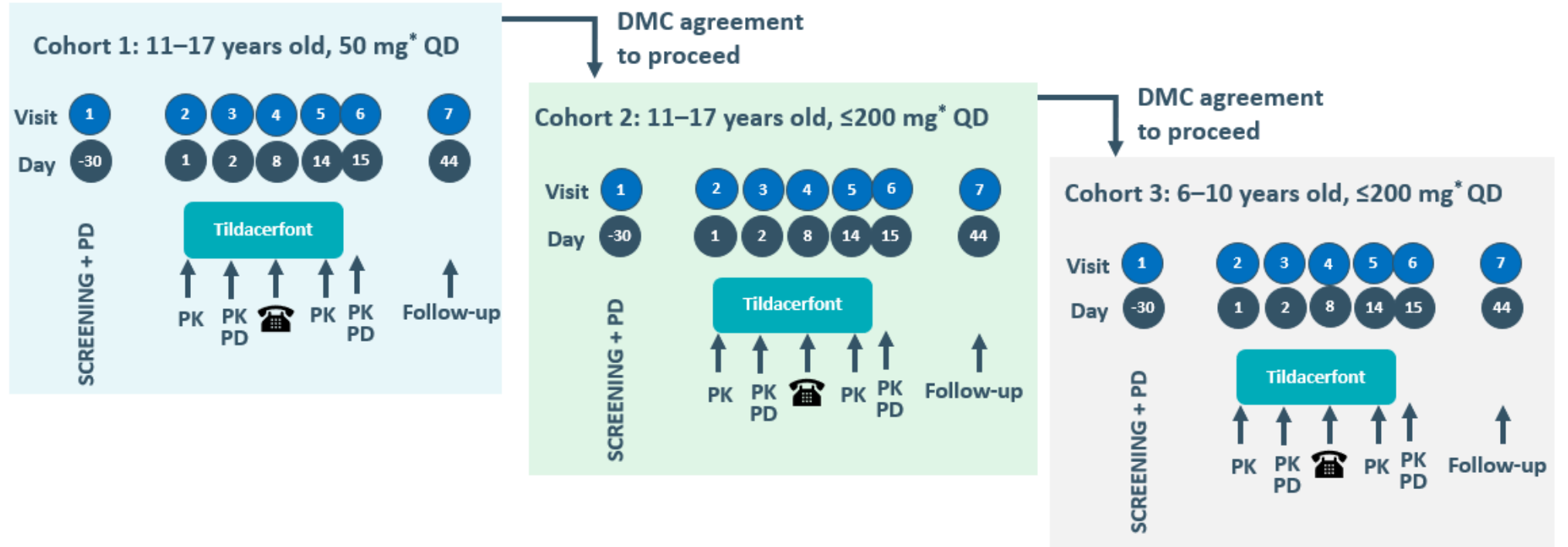


PHASE 2 STUDY IN PEDIATRIC CLASSIC CAH

Key eligibility criteria

- Pediatric patients (male and female) aged 6–17 years at Screening
- Classic CAH
- 17-OHP >400ng/dl at Screening

N=20



PRIMARY ENDPOINT

Safety



SECONDARY ENDPOINT

PK on Days 1 and 14



OTHER ENDPOINTS

Change in PD biomarkers (ACTH, 17-OHP, A4)

Study schema is not drawn to scale.

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

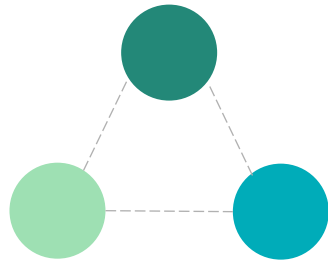
17-OHP, 17-hydroxyprogesterone; A4, androstenedione; ACTH, adrenocorticotropic hormone; CAH, congenital adrenal hyperplasia; DSMB, Data Safety and Monitoring Board; GC, glucocorticoid;

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

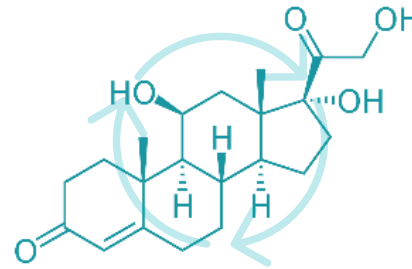
Spruce Biosciences. Data on file.

Polycystic Ovary Syndrome (PCOS) Overview

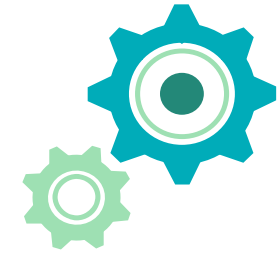
PCOS IS A COMMON, CHRONIC ENDOCRINE DISORDER



Heterogeneous in nature: typically characterized by **hyperandrogenism, ovulatory dysfunction,** and **polycystic ovaries**¹



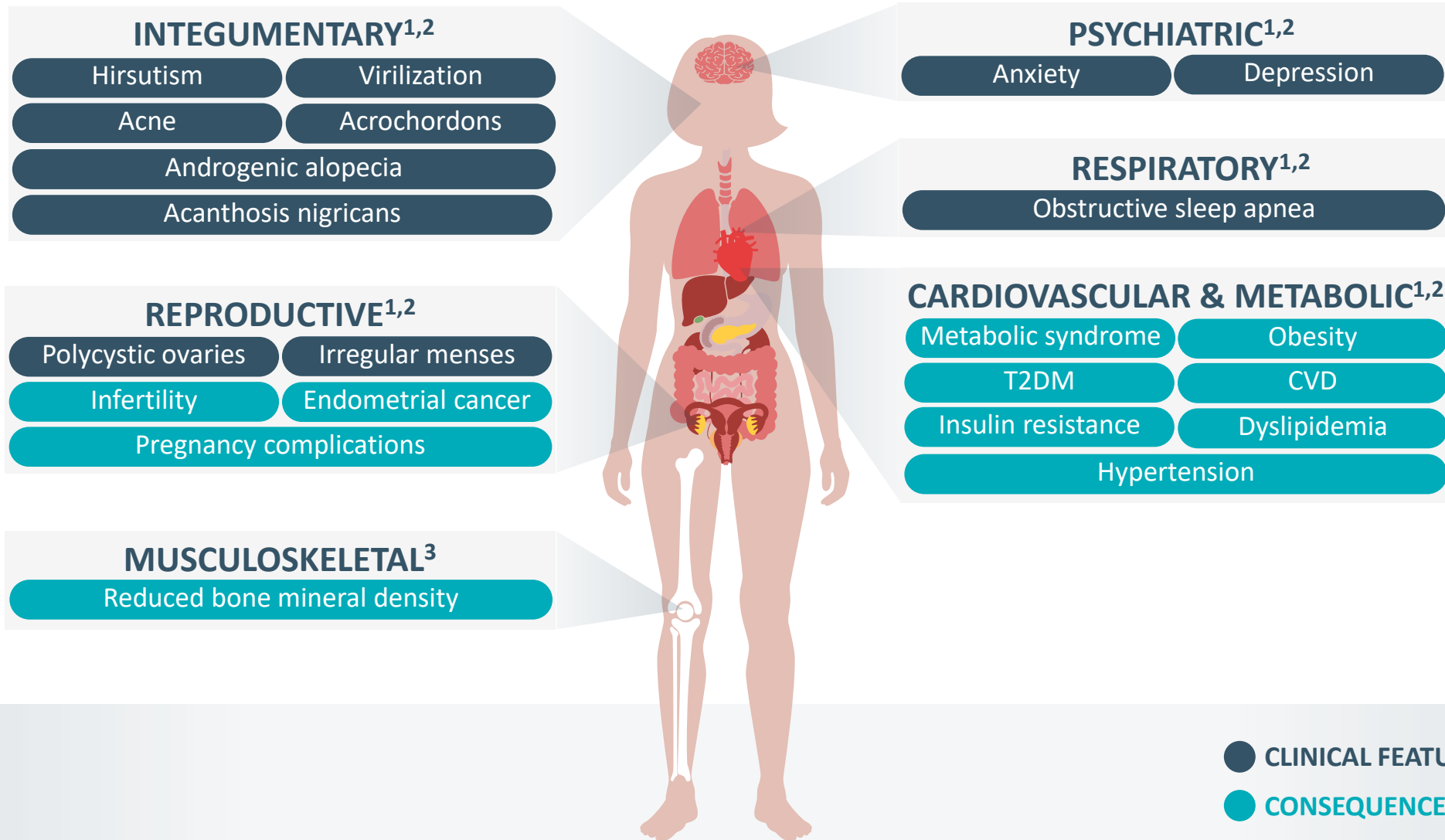
Symptoms are linked to **androgen excess** and **metabolic dysfunction**²



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 infertility**³

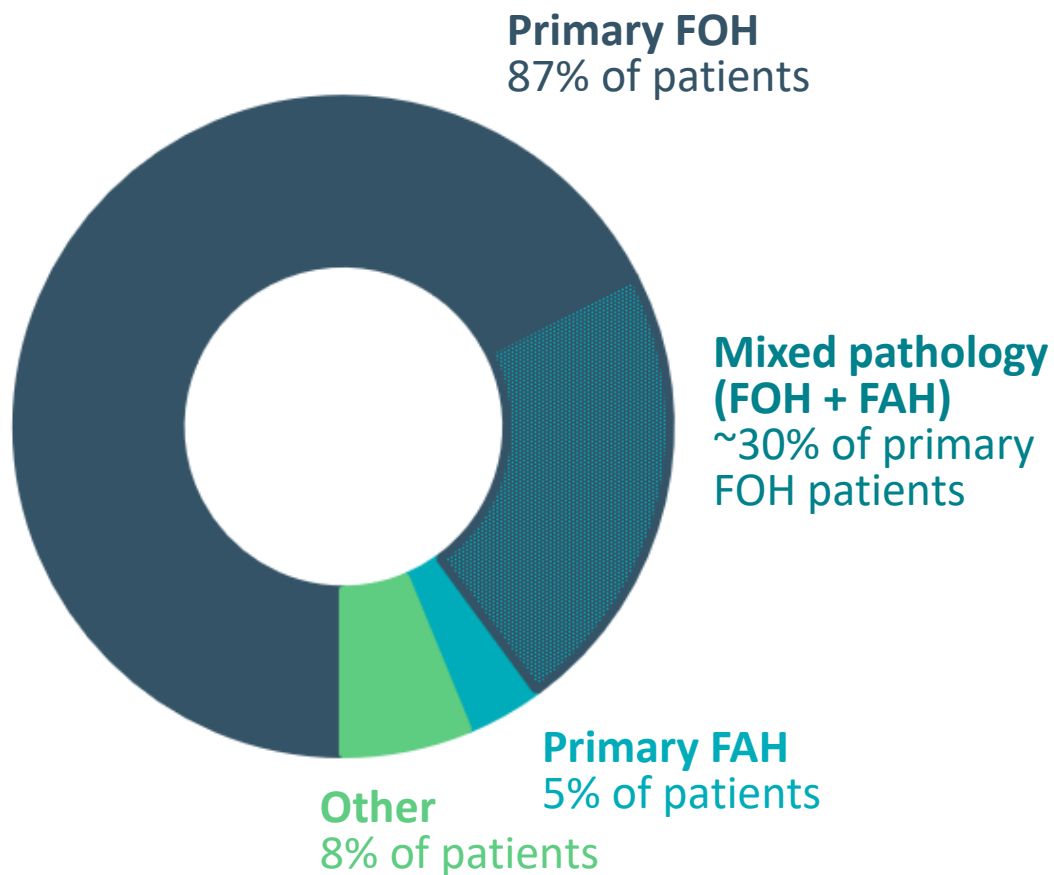
PCOS LEADS TO VARIED SYMPTOMATOLOGY AND LONG-TERM HEALTH RISKS



● CLINICAL FEATURES OF PCOS

● CONSEQUENCES OF PCOS

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



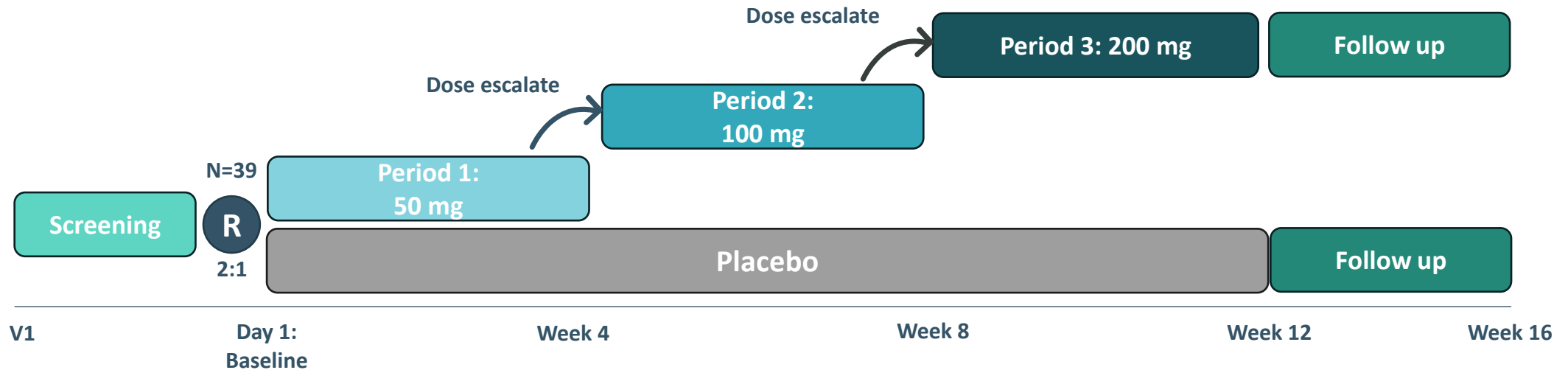
RISK MANAGEMENT

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 change from baseline in DHEAS

Additional endpoints

- Safety and tolerability
- Proportion of subjects with: ≥ 30% reduction from baseline in DHEAS and DHEAS ≤ ULN
- Change from baseline in ACTH, 17OHP, T, A4, 11OHA4, 11OHT, 11KA4, and 11KT

Financial Highlights and Anticipated Milestones



COMMERCIAL OPPORTUNITY – CLASSIC CAH



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



\$3B+ global market opportunity¹



Orphan drug pricing anticipated



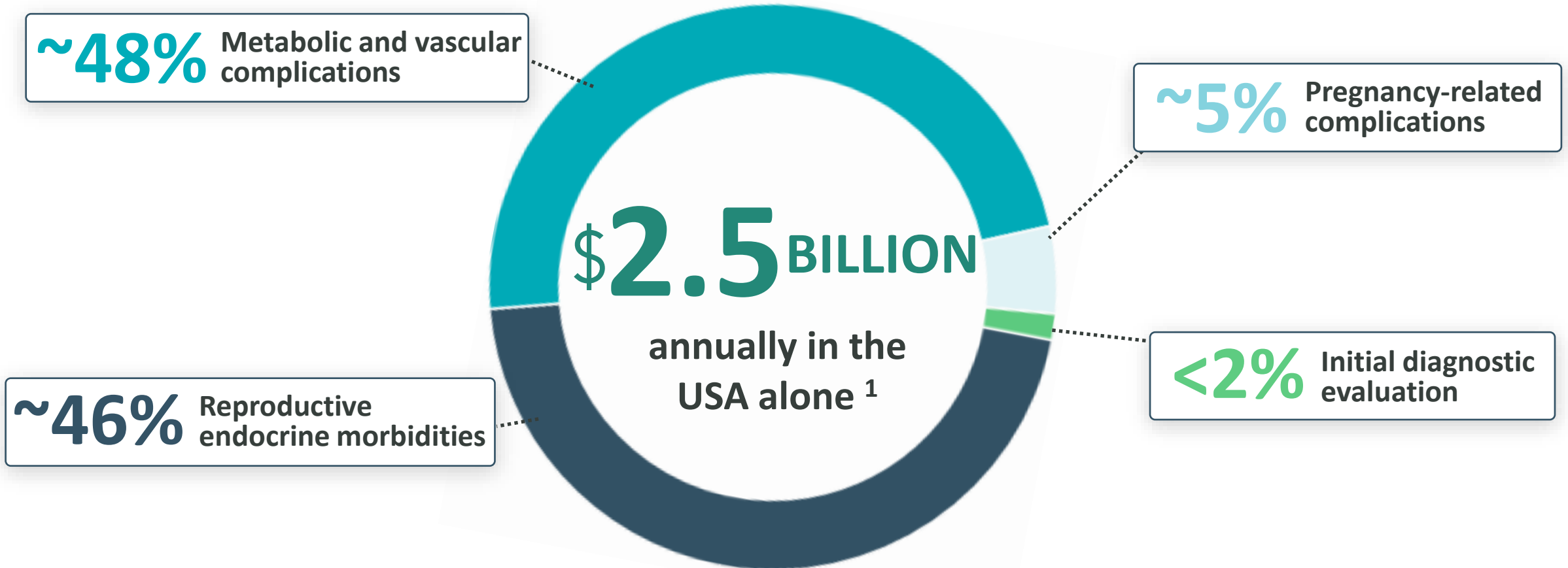
IP: Composition of Matter (2028)² / Methods (2038)



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

1. Based on industry reports
2. Absent any patent term adjustments or extensions
3. Assumes 6-month (U.S.) and 2-year (EU) extension if clinical trials are conducted in accordance with agreed-upon pediatric investigational plan

COMMERCIAL OPPORTUNITY – PCOS



Effective treatments for PCOS may mitigate serious sequelae, potentially reducing associated healthcare costs

PCOS, polycystic ovary syndrome.

1. Riestenberg C, et al. *J Clin Endocrinol Metab.* 2021. doi: 10.1210/clinem/dgab613. Online ahead of print. Estimated market size of Primary Functional Adrenal Hyperandrogenism (FAH) and Mixed Pathology (Primary FAH and Functional Ovarian Hyperandrogenism), or 30% of the overall market.

FINANCIAL HIGHLIGHTS

Capital Structure and Summary Financials as of June 30, 2022

Capital Structure	Shares (M)
Shares Outstanding	23.6
Equity Awards Issued and Outstanding	4.4
Warrants	-
Fully Diluted Shares Outstanding	28.0

Financials	000's
Cash, Cash Equivalents and Investments	\$99,100
Debt ¹	\$5,000

1. Principal balance of debt owed as of June 30, 2022. Does not include discounts on debt recorded pursuant to U.S. GAAP requirements.

KEY ANTICIPATED MILESTONES

1H2023

Topline results from the Phase 2 POC clinical trial in PCOS

1H2023

Topline safety results from cohort 1 of the Phase 2 open-label clinical trial in pediatric classic CAH

2H2023

Topline results from CAHmelia-203 in adult classic CAH

2H2024

Topline results from CAHmelia-204 in adult classic CAH

INVESTMENT HIGHLIGHTS



Large Orphan Market Primed for Innovation

~\$3B+ market opportunity in CAH with high unmet need, low competitive intensity, and no new therapeutic options in ~50 years



Transformative Treatment Paradigm in CAH

Tildacerfont is a **second generation CRF-1 receptor antagonist** with clear MOA, designed to reduce disease and steroid burden



Robust Clinical Data in Adult CAH

Two positive Phase 2a studies demonstrating **~80% reduction in biomarkers**; 235 subjects dosed across eight studies to date



Potentially Registrational Studies Ongoing

Data from two studies in Adult-CAH patients expected in **2H-2023 (CAHmelia-203)** and **2H-2024 (CAHmelia-204)**



Multiple Expansion Opportunities

Phase 2 programs initiated in pediatric CAH and polycystic ovary syndrome (PCOS) with **data expected in 1H-2023**




Strong IP Protection

Comprehensive IP portfolio with **exclusivity to 2038** combined with **Orphan Drug Designation** in U.S. and E.U.



spruceBIOSCIENCES

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

A decorative graphic on the right side of the slide consists of several curved lines in shades of teal and light blue. These lines curve upwards from the bottom left towards the top right. Small circular dots in matching colors are placed at various points along these lines, creating a sense of movement and growth.