



Acadia Corporate Presentation

November 2024



Forward-Looking Statements

This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements include all statements other than statements of historical fact and can be identified by terms such as “may,” “will,” “should,” “could,” “would,” “expects,” “plans,” “anticipates,” “believes,” “estimates,” “projects,” “predicts,” “outlook,” “potential” and similar expressions (including the negative thereof) intended to identify forward-looking statements. Forward-looking statements contained in this presentation, include, but are not limited to, statements about: (i) our business strategy, objectives and opportunities; (ii) plans for, including timing, development and progress of commercialization or regulatory timelines for, NUPLAZID, DAYBUE and our product candidates; (iii) benefits to be derived from and efficacy of our products, including the potential advantages of NUPLAZID and DAYBUE and expansion opportunities for NUPLAZID and DAYBUE in other indications, and for DAYBUE in jurisdictions outside the U.S. and Canada; (iv) estimates regarding the prevalence of the diseases targeted by our products and product candidates; (v) potential markets for any of our commercial products; and (vi) our estimates regarding our future financial performance, cash position, profitability or capital requirements. Forward-looking statements are subject to known and unknown risks, uncertainties, assumptions and other factors that may cause our actual results, performance or achievements to differ materially and adversely from those anticipated or implied by our forward-looking statements. Such risks, uncertainties and other factors include, but are not limited to: our dependency on the continued successful commercialization of NUPLAZID and DAYBUE and our ability maintain or increase sales of NUPLAZID or DAYBUE; the costs of our commercialization plans and development programs, and the financial impact or revenues from any commercialization we undertake; our ability to obtain necessary regulatory approvals for our product candidates and, if and when approved, market acceptance of our products; our dependence on third-party collaborators, clinical research organizations, manufacturers, suppliers and distributors; the impact of competitive products and therapies; our ability to generate or obtain the necessary capital to fund our operations; our ability to grow, equip and train our specialized sales forces; our ability to manage the growth and complexity of our organization; our ability to maintain, protect and enhance our intellectual property; and our ability to continue to stay in compliance with applicable laws and regulations. Given the risks and uncertainties, you should not place undue reliance on these forward-looking statements. For a discussion of these and other risks, uncertainties and other factors that may cause our actual results, performance or achievements to differ, please refer to our annual report on Form 10-K for the year ended December 31, 2023 as well as our subsequent filings with the Securities and Exchange Commission from time to time, including our quarterly report on Form 10-Q for the period ended November 7, 2024. The forward-looking statements contained herein are made as of the date hereof, and we undertake no obligation to update them after this date, except as required by law.



Commercial

- Two growing commercial franchises in DAYBUE and NUPLAZID
- Reported \$250.4 million in total revenue in Q3
- Quarterly revenues now annualizing to more than \$1 billion



R&D

- Two late-stage assets with strong early-stage pipeline
 - Ongoing P3 trial of ACP-101 in Prader-Willi syndrome
 - Ongoing P2 / P3 program of ACP-204 in Alzheimer's disease psychosis
- Multiple early-stage programs focused on rare and neuropsychiatric diseases



Financial

- 18% YoY revenue growth in 3Q24
- Cash balance of \$565.3M as of September 30, 2024



~5,000
diagnosed patients
in the US



~6,000 - 9,000
prevalent population
in the US

Debilitating Symptoms of Rett Syndrome¹

- ✓ Fine and gross motor impairment
- ✓ Loss of verbal and nonverbal communication
- ✓ Hand stereotypies
- ✓ Loss of independence and require 24/7 support
- ✓ G.I. symptoms, including severe constipation
- ✓ Seizures



¹Acadia market research, Neul JL et al, Annal Neurol. 2010;68;944-50 and <https://www.rettsyndrome.org/about-rett-syndrome/what-is-rett-syndrome/>.

DAYBUE for the Treatment of Rett Syndrome

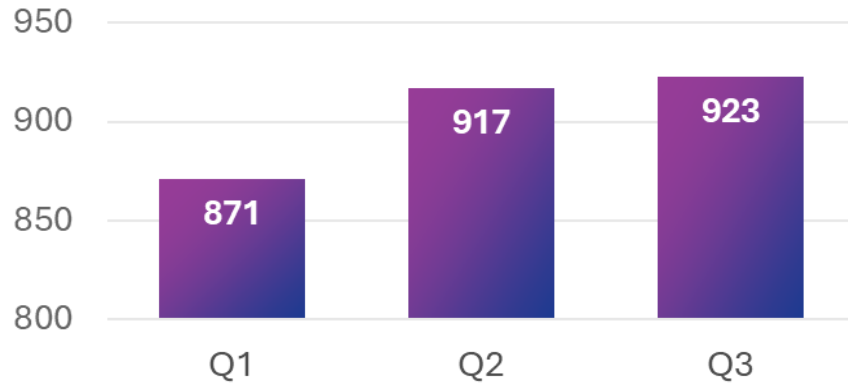


First and only FDA-approved drug for the treatment of Rett syndrome in adults and pediatric patients 2 years of age and older. Received priority review, orphan drug and fast track drug designations.

- ✓ A twice-daily liquid medication that can be orally-administered or via gastrostomy tube
- ✓ Approval based on improvement in point scales measuring severity of disease including RSBQ (caregiver assessed) and CGI-I (clinician rated)
- ✓ Most common adverse reactions include diarrhea and vomiting
- ✓ Method-of-use patent to 2036
- ✓ Received a Priority Review Voucher on approval¹
- ✓ Acadia owns worldwide rights

¹Acadia owes Neuren Pharmaceuticals 1/3 of the value at the time it is used or sold by Acadia

Number of Patients Receiving Paid Shipments in the Quarter



Persistency Based on Shipments



Key 3Q Trends

- Continued penetration of the prevalent population
- Increasing dispense rates
- Discontinuation rates steadied; flattening persistency curve at 12 months+



60%

of all DAYBUE patients have now been on treatment 10 months or more



Persistency rates of

50%

or higher after 12 months



Approximately

~800

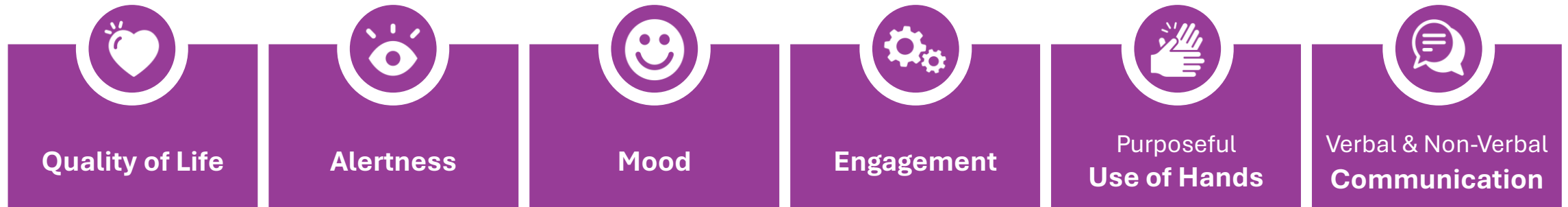
unique prescribers

DAYBUE Initiatives to Drive Penetration

Focus on Real-World Experience



Translating clinical endpoints to tangible real-world benefits, including stories from HCPs and Caregivers of patients' improved:



Key Drivers

- Communicating results of ongoing LOTUS observational study
- HCP peer-to-peer programming
- Caregiver program series

Key Market Data

- >30% of the 5,000 clinically diagnosed U.S. Rett patients have started DAYBUE
- ~10% increase in clinically diagnosed Rett patients since DAYBUE launch
- 6,000-9,000 estimated prevalent population

NUPLAZID for the Treatment of Hallucinations and Delusions Associated with Parkinson's Disease



- ~50% of people with PD may develop hallucinations and/or delusions at some point during the course of their disease¹
- ~130,000 patients each year are PD patients treated with an Atypical Antipsychotic²

Debilitating Symptoms

- | | |
|-----------------------------------|-----------------|
| ✓ Seeing things that others don't | ✓ Paranoia |
| ✓ Hearing sounds, music or voices | ✓ False beliefs |

NUPLAZID[®]
(pimavanserin) 34mg capsules

NUPLAZID is the first and only FDA-approved drug for the treatment of hallucinations and delusions associated with Parkinson's disease psychosis.

- **Composition of matter patent to 2030**
- **Formulation patents to 2038**

¹ Elin B Forsaa, et al. A 12-year population-based study of psychosis in Parkinson disease *Arch. Neurol.* 2010; Aug;67(8):996-1001
² Acadia estimate as of June 2024 based on claims data



\$159.2M

in Net Product Sales

Up 10% year-over-year;
highest ever quarterly sales



Real-World Evidence¹⁻³ Findings:

- Decreased mortality at 1 year when treating PDP with pimavanserin as compared to off-label atypical antipsychotics
- Lower all-cause hospitalizations, ER visits, and shorter length of stays vs. atypical antipsychotics



Label Change Clarifying:

- NUPLAZID can be prescribed to treat patients with PDP, *with or without* dementia
- Addresses confusion that existed in the marketplace about NUPLAZID's addressable population

¹ Mosholder AD, Ma Y, Akhtar S, et al. Mortality among Parkinson's disease patients treated with pimavanserin or atypical antipsychotics: an observational study in Medicare beneficiaries. *Am J Psychiatry*. 2022;179(8):553-561.

² Layton JB, Forns J, McQuay LJ, et al. Mortality in patients with Parkinson's disease-related psychosis treated with pimavanserin compared with other atypical antipsychotics: a cohort study. *Drug Safety*. Published online December 14, 2022. doi:10.1007/s40264-022-01260-6.

³ Layton JB, Forns J, McQuay LJ, et al. Mortality in patients with Parkinson's disease-related psychosis treated with pimavanserin compared with other atypical antipsychotics: a cohort study. Supplementary material. Online resource. *Drug Safety*. Published online December 14, 2022. doi:10.1007/s40264-022-01260-6.

Deep CNS Pipeline



Program	Indication	Preclinical	Phase 1	Phase 2	Phase 3	Marketed
NUPLAZID® (pimavanserin)	Parkinson's Disease Psychosis	[Progress bar spanning Preclinical, Phase 1, Phase 2, Phase 3, and Marketed]				
DAYBUE™ (trofinetide)	Rett Syndrome	[Progress bar spanning Preclinical, Phase 1, Phase 2, Phase 3, and Marketed]				
ACP-101 ¹	Hyperphagia in Prader-Willi Syndrome	[Progress bar spanning Preclinical, Phase 1, and Phase 2]				
ACP-204 ¹	Alzheimer's Disease Psychosis	[Progress bar spanning Preclinical and Phase 1]				
ACP-2591 ¹	Rett Syndrome; Fragile X Syndrome	[Progress bar spanning Preclinical and Phase 1]				
ASO Programs ¹	SYNGAP1; Rett syndrome; Undisclosed	[Progress bar spanning Preclinical]				
Multiple Undisclosed Programs	Neuropsychiatric and Rare Disorders	[Progress bar spanning Preclinical]				

Acadia has worldwide rights for all assets

- NUPLAZID and ACP-204 are internally developed and fully owned drug candidates
- For other programs, Acadia owes various royalty and milestone payments to its partners, respectively

¹ The safety and efficacy of these investigational agents have not been established. There is no guarantee these investigational agents will be filed with or approved by any regulatory agency.



Significant Unmet Need

- ✓ ~8,000-10,000 patients in the U.S.
- ✓ In countries across the globe, incidence rates are similar to those in the U.S.
- ✓ No FDA approved medicine to treat hyperphagia in PWS patients in the U.S.

- Rare and complex neurobehavioral genetic disorder that often leads to social isolation
- Hyperphagia is a defining characteristic of Prader-Willi syndrome (PWS) and commonly begins between the ages of 3-8
- Hyperphagia is characterized by unrelenting hunger
 - Often leads to obesity and behavioral challenges including anxiety and aggression
 - Extremely distressing for patients, parents and caregivers
- 30 years average life expectancy¹

¹Causes of Death in Prader-Willi Syndrome: Prader-Willi Syndrome Association (USA) 40-Year Mortality Survey. Genet Med. 2017 June ; 19(6): 635–642.

Ongoing Phase 3 Study of ACP-101 for the Treatment of Hyperphagia in PWS

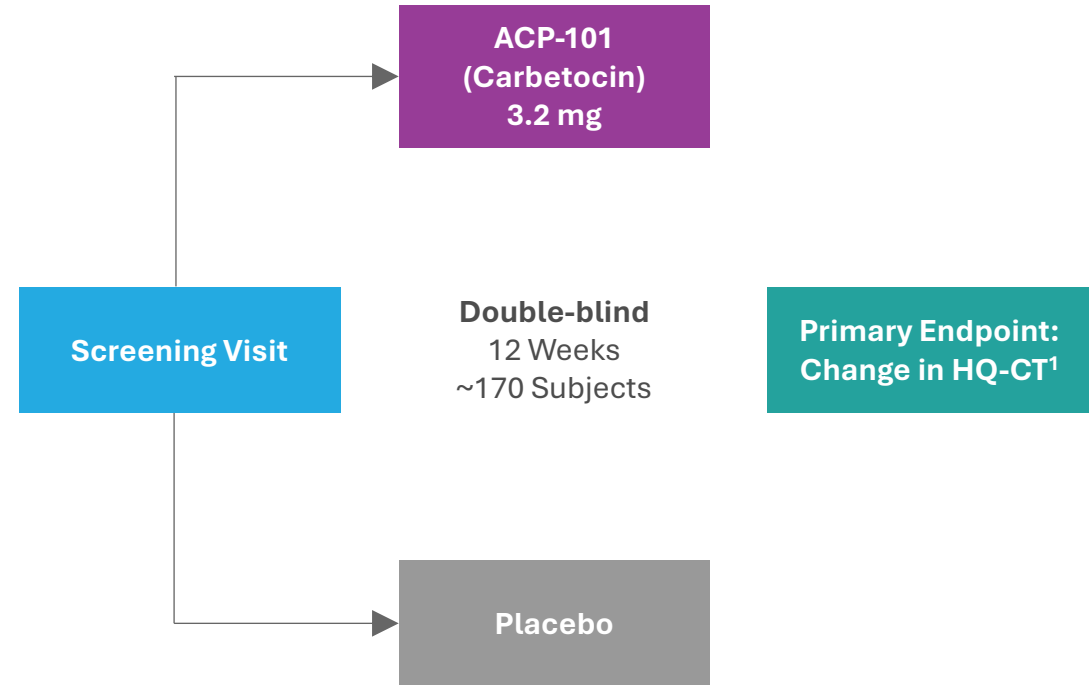


COMPASSPWS

Trial builds on previous Phase 3 clinical trial experience

3.2 mg dose was observed to reduce hyperphagia-related behaviors

Phase 3 Study Design



¹Hyperphagia Questionnaire for Clinical Trials (HQ-CT) is an observer-reported outcome measure that has been widely used in interventional studies to assess changes in hyperphagic behaviors in individuals with PWS.

ACP-204 in Alzheimer's Disease Psychosis (ADP)

Strategic goal: expand and extend neuropsychiatry portfolio



Target Product Profile

Mitigate or eliminate QT prolongation

Explore doses higher than pimavanserin
34 mg equivalent

Improved time to onset of action

Phase 1 Results

- ✓ No sign of QT prolongation

- ✓ Wide dose range established supporting potential for ~2x pimavanserin 34 mg equivalent

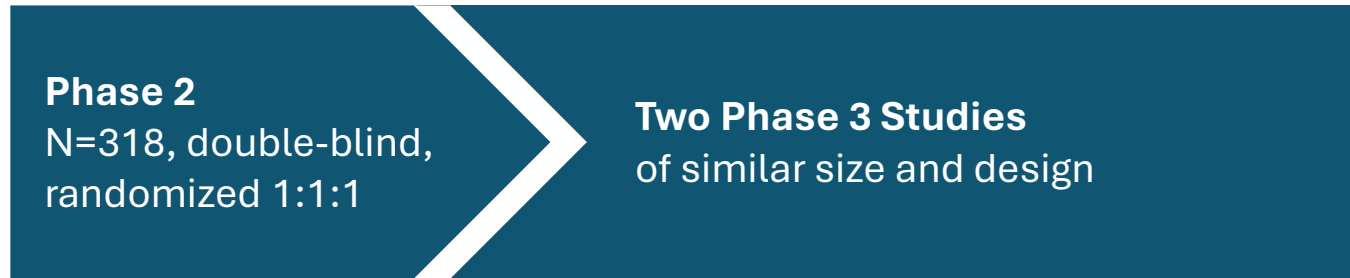
- ✓ Steady state PK (5 days) achieved in less than half the time of pimavanserin (12 days)

ACP-204: Phase 2 / Phase 3 Seamless Program for the Treatment of ADP

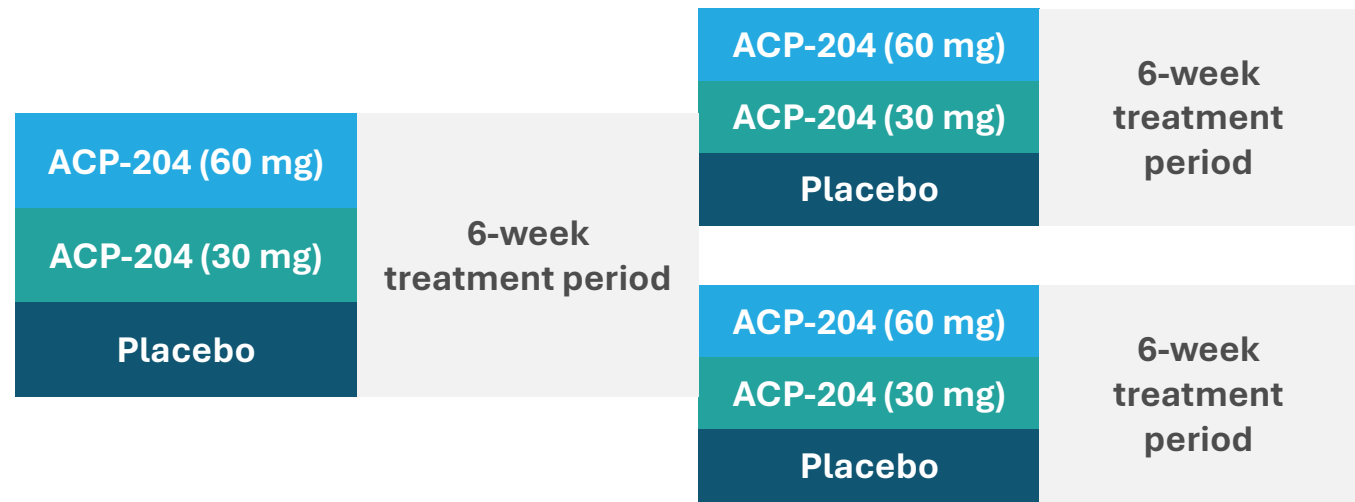


Pimavanserin experience supports P2 / P3 program

Phase 2 and each Phase 3 study designed and sized to be considered pivotal, if successful



Seamless Enrollment



FY 2024 Financial Guidance



	Prior FY24 Guidance	Updated FY24 Guidance
NUPLAZID Net Sales	\$590 - \$610 Million	\$600 - \$610 Million
NUPLAZID Gross-to-Net	26% - 28%	26% - 27%
DAYBUE Net Sales	\$340 - \$370 Million	\$340 - \$350 Million
Total Revenue	\$930 - \$980 Million	\$940 - \$960 Million
R&D Expense	\$305 - \$315 Million	\$280 - \$290 Million
SG&A Expense	\$465 - \$480 Million	\$480 - \$495 Million
YE Cash	\$575 - \$625 Million	\$600 - \$640 Million



Commercial

- › Two growing commercial franchises in DAYBUE and NUPLAZID
- › Build on data generation and RWE to drive growth
- › Global expansion of trofinetide



R&D

- › Two late-stage assets:
 - › ACP-101 in PWS
 - › ACP-204 in ADP
- › Multiple early-stage rare and neuropsychiatric programs



Financial

- › Substantial and growing cash flow from operations
- › Invest in R&D, pipeline and business development