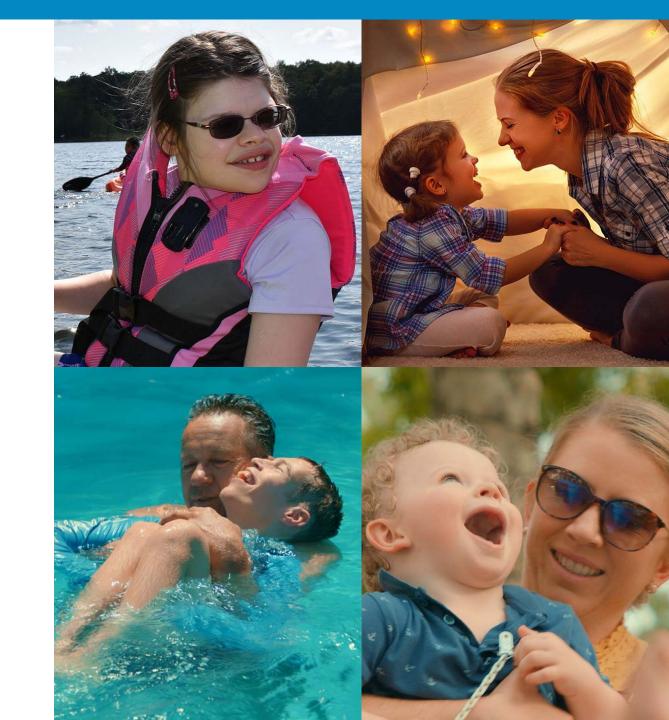


Bioshares

12 July 2024

IMPROVING THE LIVES OF PEOPLE WITH NEURODEVELOPMENTAL DISABILITIES



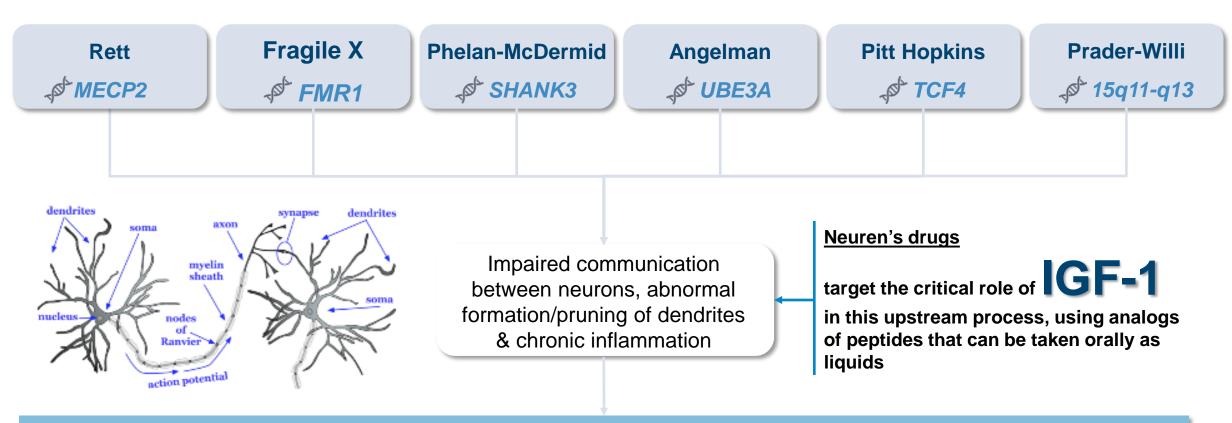
Forward looking statements

This presentation contains forward looking statements that involve risks and uncertainties. Although we believe that the expectations reflected in the forward looking statements are reasonable at this time, Neuren can give no assurance that these expectations will prove to be correct. Actual results could differ materially from those anticipated. Reasons may include risks associated with drug development and manufacture, risks inherent in the regulatory processes, delays in clinical trials, risks associated with patent protection, future capital needs or other general risks or factors.





Seeking a ground-breaking impact on neurodevelopmental disorders



Severe impact on nearly every aspect of life

walking and balance issues
Impaired communication
impaired hand use

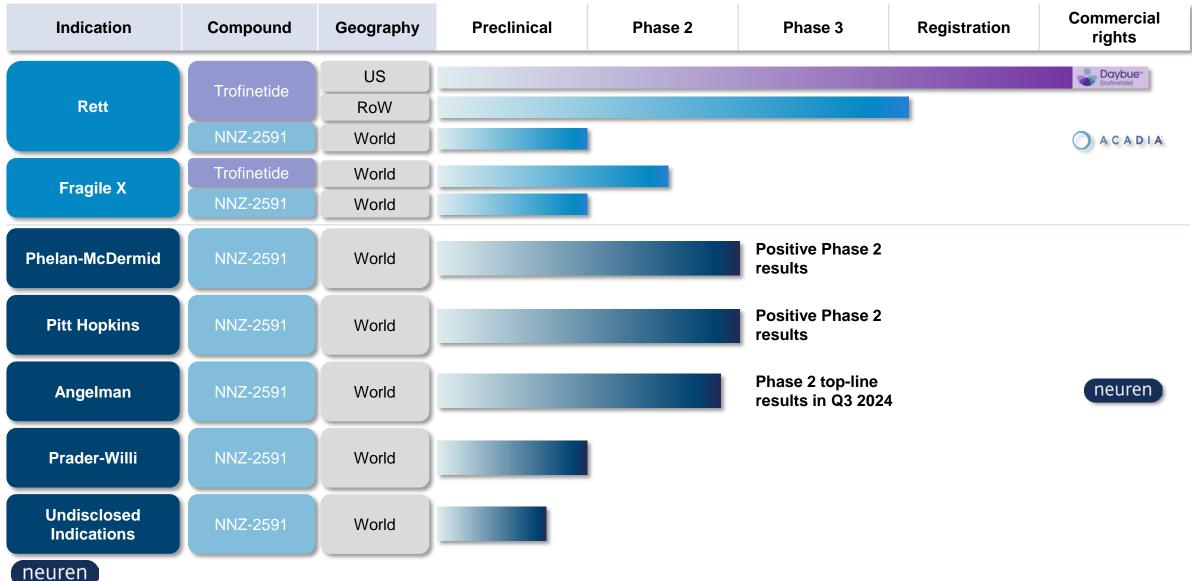
anxiety and hyperactivity intellectual disability sleep disturbance

seizures
Impaired social interaction
gastrointestinal problems



Commercial and late-stage pipeline

pharmaceuticals



Three key drivers transforming near term value

Realise Neuren's share of trofinetide value in the US through Acadia's successful commercialization of



Realise Neuren's share of trofinetide ex-US value through expanded global partnership with Acadia

3

Confirm efficacy of **NNZ-2591** in Phase 2 trials for multiple indications, with global rights retained by Neuren

- ✓ Positive top-line results for **Phelan-McDermid syndrome**
 - √ Positive top-line results for Pitt Hopkins syndrome
 - Top-line results for Angelman syndrome in Q3 2024

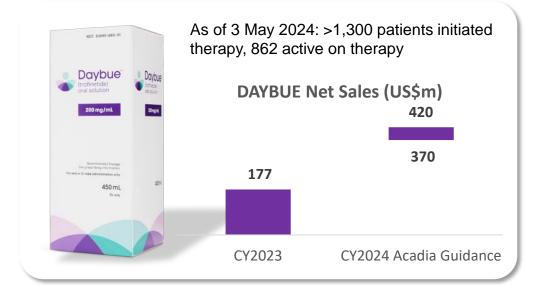


DAYBUE™ (trofinetide) North America – US launch in April 2023

Potential Rett patients

Currently identified Rett patients

US	Canada
6,000 -	600 - 900 ¹
$9,000^{1}$	NDS accepted for priority review,
5,000 ¹	potential approval around year-end 2024 ³



¹ Acadia estimates

Economics to Neuren:

\checkmark	US\$10m	upfront	in	2018
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\checkmark	US\$10m	in 2022 following acceptance of NDA for review
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✓ US\$40m in Q2 2023 following 1st commercial sale in the US

US\$33m one third share of Priority Review Voucher awarded to Acadia (assuming market value US\$100m)

US\$55m Milestone payments related to Fragile X

Tiered Royalty Rates (% of net		Sales Milestones	
sales) ² Annual Net Sales	Rates	Net Sales in one calendar year	US\$m
≤US\$250m	10%	≥US\$250m	50
>US\$250m, ≤US\$500m	12%	≥US\$500m	50
>US\$500m, ≤US\$750m	14%	≥US\$750m	100
>US\$750m	15%	≥US\$1bn	150



² Royalty rates payable on the portion of annual net sales that fall within the applicable range

³ Acadia First Quarter 2024 Earnings Call presentation in May 2024

Trofinetide outside North America

Europe	Japan	Other
9,000 - 14,000 ¹	1,000 - 2,000 ¹	~30,000²
~4,000²	~800 - 1,000²	~2,000²
	9,000 - 14,000 ¹	$9,000 - 1,000 - 14,000^{1}$ $\sim 4,000^{2}$ $\sim 800 - 1000$

- **Europe:** Pediatric investigation plan (PIP) filed with and accepted by EMA, with a potential Marketing Authorisation Application filing in Q1 2025³
- Japan: Formal meeting with Japanese regulatory agency (PMDA) scheduled in 2Q24 to discuss clinical plan³

Economics to Neuren:

✓	US\$100m	upfront
	US\$35m	following 1st commercial sale in Europe
	US\$15m	following 1st commercial sale in Japan
	US\$10m	following 1st commercial sale of a 2 nd indication Europe
	US\$4m	following 1st commercial sale of a 2 nd indication Japan

Sales milestones	On achievement of escalating annual net sales thresholds: Europe: up to US\$170m Japan: up to US\$110m RoW: up to US\$83m	
Tiered rovalties	Mid-teens to low-20s % of net sales	_

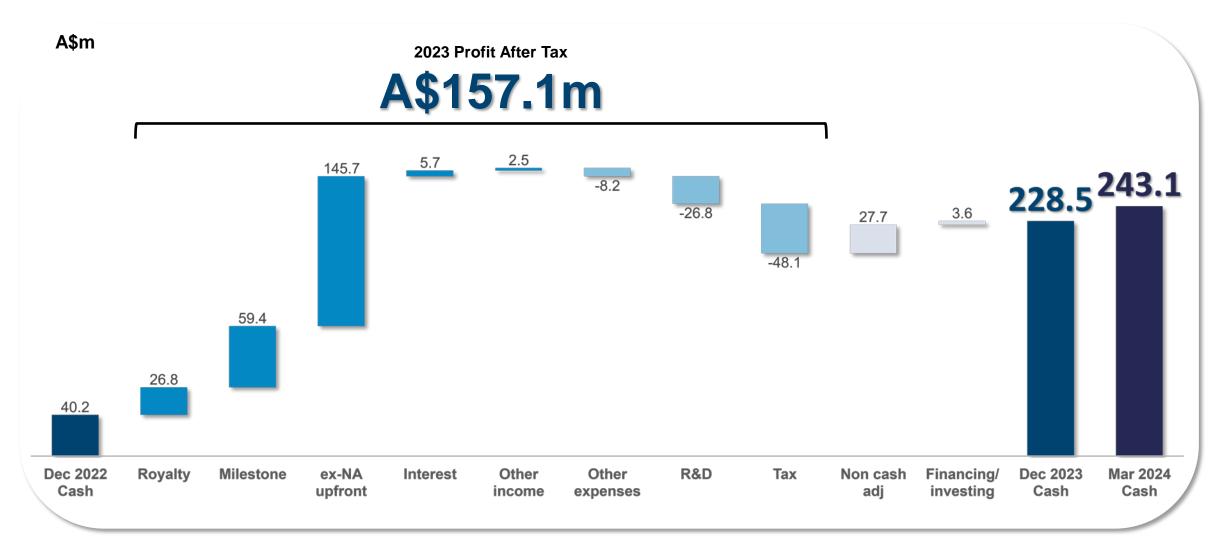
³ Acadia First Quarter 2024 Earnings Call presentation in May 2024



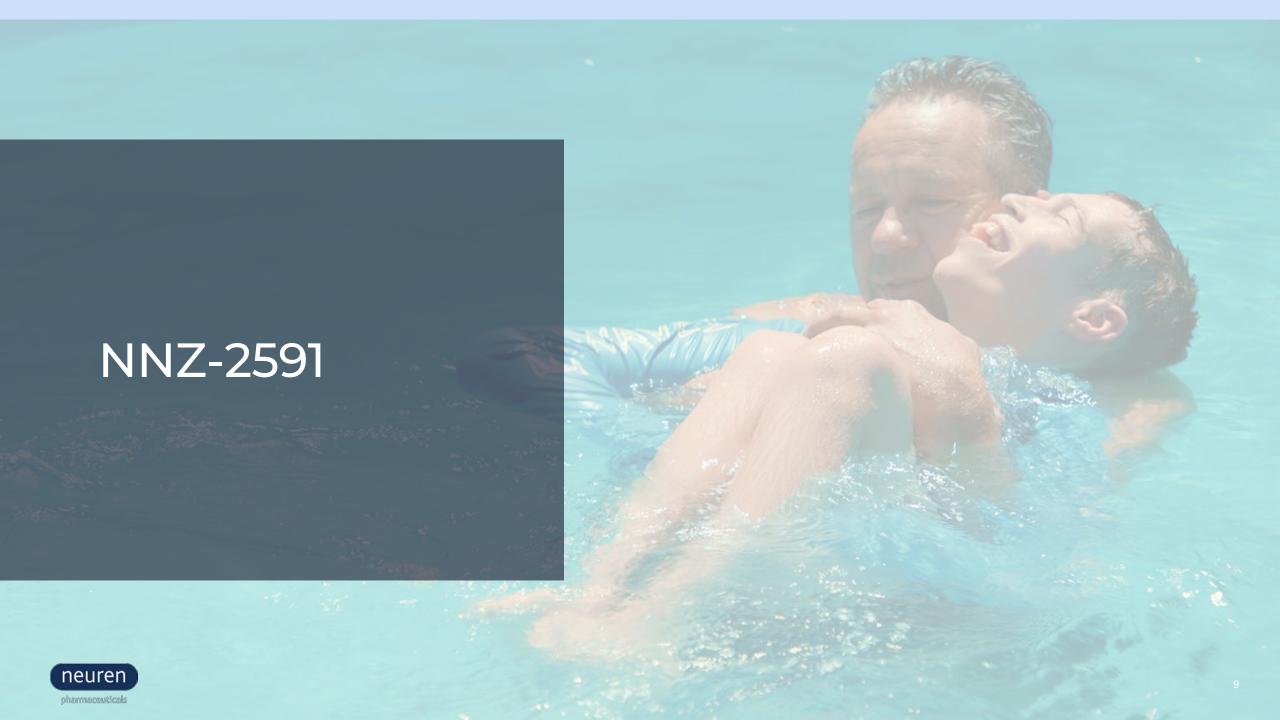
¹ Acadia estimates

² Neuren estimates based on prevalence studies and patient organisations

Revenues provide financial strength to maximise growth opportunities

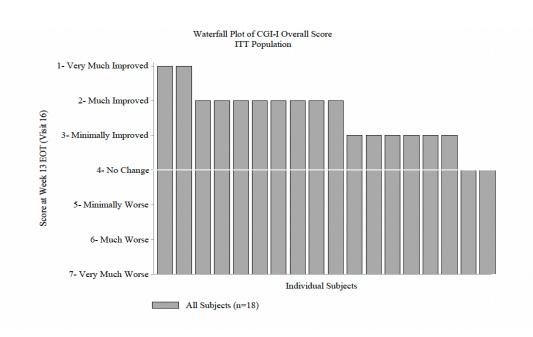


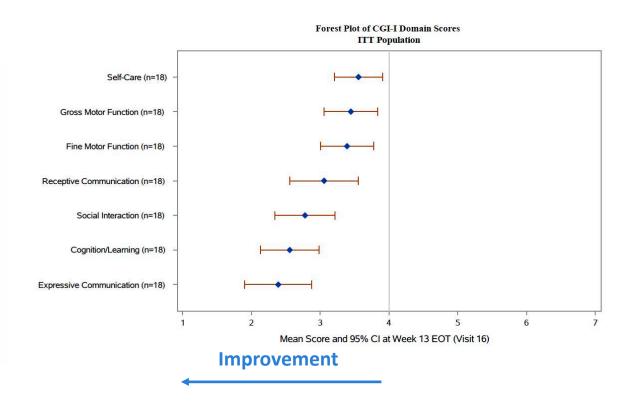




PMS CGI-I (clinician) results by subject and by domain

Mean CGI-I score of 2.4 with 16 out of 18 children showing improvement

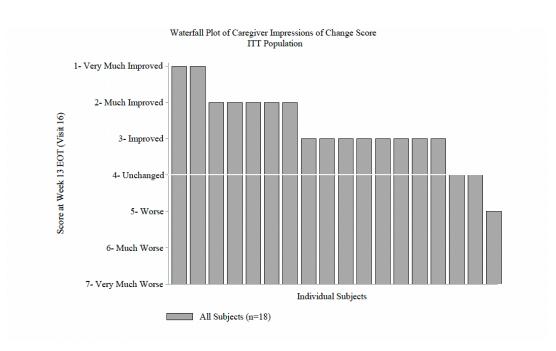


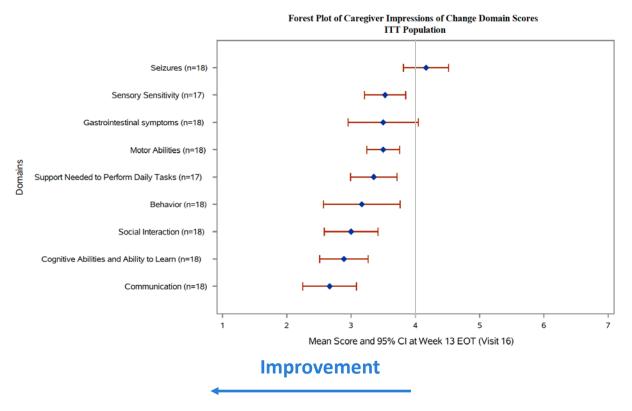




PMS CIC (caregiver) results by subject and by domain

Mean CIC score of 2.7 with 15 out of 18 children showing improvement







Clinician and caregiver testimonials

Clinicians

"Marked improvement in expressive language and moderate improvement in socialization."

"Teachers noted improvement in learning new skills."

"Able to focus work at school, both to the things they always enjoy and new tasks."

"Expressive communication- significant improvement in using more complex phrases, better back and forth communication. Better expressing needs. Some commentary on how mom is feeling, "I want you to be happy"."

"Expressive communication- babbling much more than baseline."

"A few 1-2 word phrases that were not at baseline "oh boy",
"Hi Mama", "I love you", "oh my"."

"Gross motor- Stronger climbing ladders, comes downstairs which never did before, Walks upstairs without help (needed help at baseline)."

Caregivers

"Using more words while retaining eye contact... Improved pretend play... Initiating eye contact"

"Less scripting, less stimming... More flexible with changes... In general, they are more safe-even at bus stop"

"More focused, engaged, aware of their environment, people."

"So much happier, not throwing self to ground when can't get his way"

"More attentive and it makes for an easy learner, Now can focus better on what we are trying to teach."

"Attention span is great right now... He can focus long enough to complete tasks and try new things."

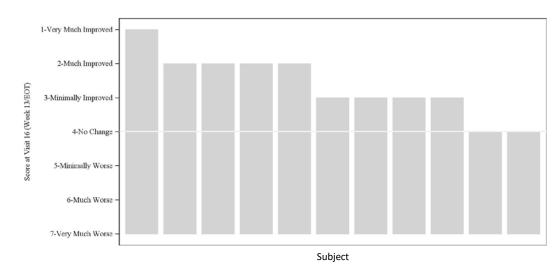
"Can now run instead of walking fast... Good balance, not needing assistance on stairs."



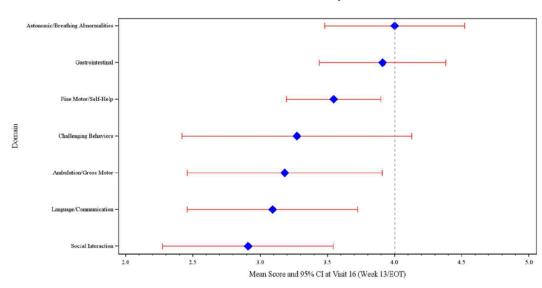
PTHS CGI-I (clinician) results by subject and by domain

Mean CGI-I score of 2.6 with 9 out of 11 children showing improvement





Forest Plot of mean CGI-I Domain Scores MITT Population

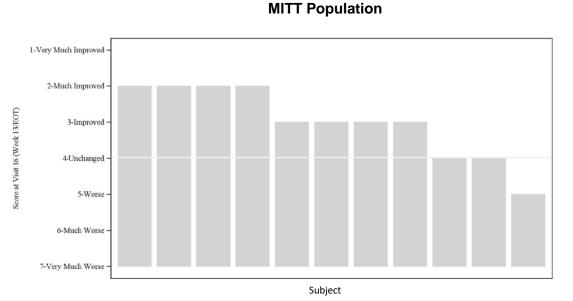


Improvement



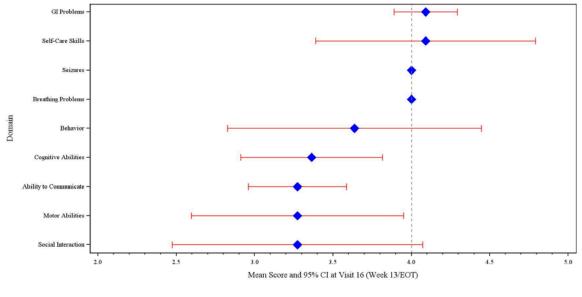
PTHS CIC (caregiver) results by subject and by domain

Mean CIC score of 3.0 with 8 out of 11 children showing improvement



CIC Overall Score by subject

Forest Plot of mean CIC Domain Scores MITT Population



Improvement



Clinician and caregiver testimonials

Clinicians

"Increased babbling and jargoning....More inflections with eye contact and consonant sounds rather than just noises."

"Decreased frequency and intensity of smacking and hairpulling."

"Supported stepping increased over last few months...Now taking steps without trainer with parent support."

"Improved expressive communication: 2 additional words, uses AAC device to ask for food. Increase vocalization."

"Less breath holding. More opinionated. More social interest."

"Able to match items/pictures...moved from 4 pictures to 6 pictures."

"Improved motor skills. Better motor coordination getting in car."

Caregivers

"Is now able to explore environment... can move towards people to initiate contact and... can seek out whatever ... wants to play with."

"Can seem to hold on to things for longer periods without letting go."

"Stability when walking improved."

"Listen to conversation + follow some discussions, able to understand when we're talking about..."

"Far less hyper and easily able to concentrate better... is able to concentrate and master tasks that ... has been working on for years (getting in and out of car independently, catching a ball)."

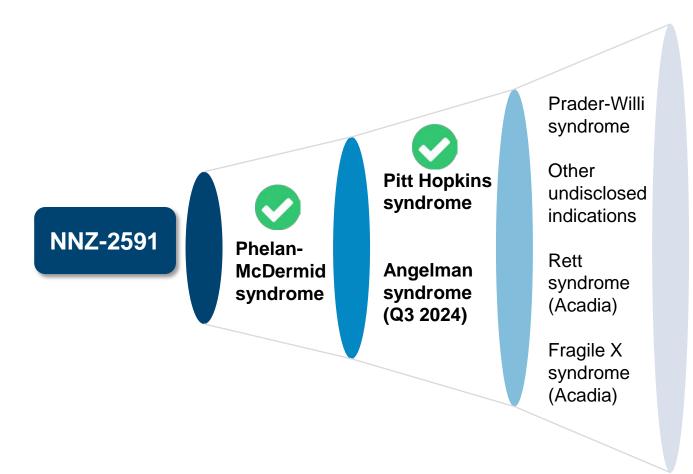
"More intentional movements... been more gentle with almost all interactions."

"Almost constant babbling and even has said "hi" and "more.""

"More calm and attentive, especially looking at faces and eyes."



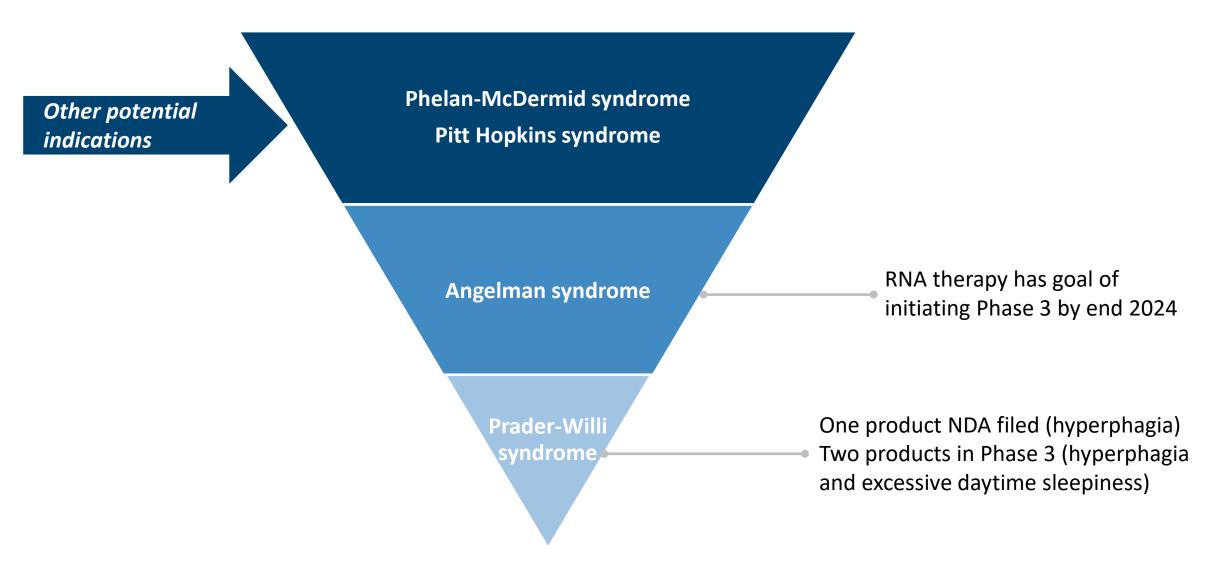
Multiple indications opportunity for NNZ-2591



- Positive results from Phelan
 McDermid syndrome and Pitt
 Hopkins syndrome Phase 2 trials
- Top-line results from Angelman syndrome Phase 2 trial expected in Q3 2024
- End of Phase 2 meeting with FDA for Phelan McDermid syndrome planned Q3 2024
- The mechanism of action of NNZ-2591 is relevant for many other neurodevelopmental synaptopathies
- Rett and Fragile X syndromes are licensed to Acadia, with same economics to Neuren as trofinetide; Neuren retains worldwide rights to all other indications



Competitive landscape overview



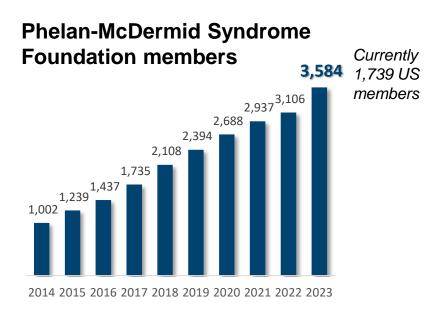


PMS is historically under-diagnosed, but this is changing

Estimated prevalence is 1% of people with autism - 1/8,000 to 1/15,000 males and females¹

 US
 Europe
 Japan
 China
 Other²

 Potential PMS patients
 17,000 – 32,000³
 21,000 – 41,000³
 5,000 - 9,000³
 51,000 – 95,000³
 16,000 - 31,000³



Opportunity to accelerate diagnosis

75% of PMS patients have been diagnosed with an ASD

~1% of autism patients have SHANK3 mutations

Autism

US ADDM tracks 440k children with autism spectrum disorder

- Rising awareness
- EL-PFDD meeting with FDA in 2022
- ICD code assigned in 2023
- Enhanced genetic testing technologies
- Expanding ADDM network sites

- ¹ Phelan McDermid Syndrome Foundation (PMSF) (www.pmsf.org)
- ² Brazil, Israel, South Korea, Australia and New Zealand
- ³ Estimates based on United Nations population data 2022, derived by applying the estimated prevalence range to the populations under 60 years (urban population only for China)



Neuren is leading development of a first approved treatment for PMS

Phase 2 Program Status

- Phase 2 clinical development in the US under an IND
- End of Phase 2 Meeting with FDA planned Q3 2024
- Orphan Drug designation in US and EU
- Eligible for Rare Pediatric
 Disease Designation
 Priority Review Voucher
 program

Limited products in development

Company	Product Development Stage
neuren pharmaceuticals	Positive Phase 2 trial
#2	Phase 2 trial closed Jan 2021
#3	Phase 1
#4	Phase 1
#5	Pre-clinical

Neuren engaging with all stakeholders





Leading clinicians





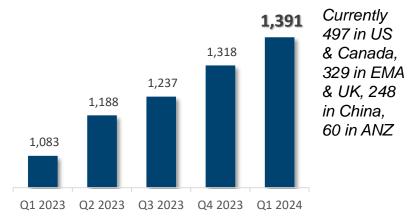
PTHS is historically under-diagnosed, but this is changing

Estimated prevalence is 1/34,000 to 1/41,000 males and females¹

 US
 Europe
 Japan
 China
 Other²

 Potential PTHS patients
 6,000 – 7,000³
 8,000 – 9,000³
 1,000 - 2,000³
 18,000 – 22,000³
 6,000 - 7,000³

Pitt Hopkins Syndrome Census – initiated Q1 2023¹



Clinical similarities between PTHS, Rett and Angelman syndromes calling for TCF4 screening in suspected Rett or Angelman

Opportunity to accelerate diagnosis

Autism

US ADDM tracks 440k children with autism spectrum disorder

- Rising awareness
- ICD code assigned in 2020
- Enhanced genetic testing technologies
- Expanding ADDM network sites

- ¹ Pitt Hopkins Research Foundation (PHRF) (pitthopkins.org)
- ² Brazil, Israel, South Korea, Australia and New Zealand
- ³ Estimates based on United Nations population data 2022, derived by applying the estimated prevalence range to the populations under 60 years (urban population only for China)

patients⁴

⁴ Takano et al, "Two percent of patients suspected of having Angelman syndrome have TCF4 mutations" Clin Genet. 2010 Sep;78(3):282-8; Armani et al, "Transcription factor 4 and myocyte enhancer factor 2C mutations are not common causes of Rett syndrome" Am J Med Genet A. 2012;158A(4):713–9



Neuren is leading development of a first approved treatment for PTHS

Neuren Program Status

- Positive Phase 2 trial
- Clinical development in the US under an IND
- Orphan Drug designation in US and EU
- Eligible for Rare Pediatric
 Disease Designation
 Priority Review Voucher
 program

Limited products in development

Company	Product Development Stage
neuren pharmaceuticals	Successful Phase 2
#2	Phase 2 (research institute sponsored, focusing on GI symptoms)
#3	Phase 1/2a trial (not yet recruiting)
#4	Preclinical

Neuren engaging with all stakeholders



Leading clinicians





Rett syndrome program provides some precedent for Phase 3

Overview of Phase 3 conducted for trofinetide in Rett syndrome:

Placebo-controlled efficacy and safety study



Open-label extension safety study



Continued use until approval

- 12 weeks treatment
- 187 subjects
- 50/50 randomisation
- Co-primary efficacy endpoints
- 90% power
- 21 sites in US
- ~2 years from start to results

- 40 weeks treatment
- Continued efficacy assessment



Partnering food for thought

Neuren/Acadia deal comparisons:

2018 North America only End of Phase 2

- US\$10m up-front
- Up to US\$455m milestones
- 10 -15% royalties

2023
Ex-North America only
Approved and
launched in US

- US\$100m up-front
- Up to US\$427m milestones
- Mid-teens to low 20s % royalties

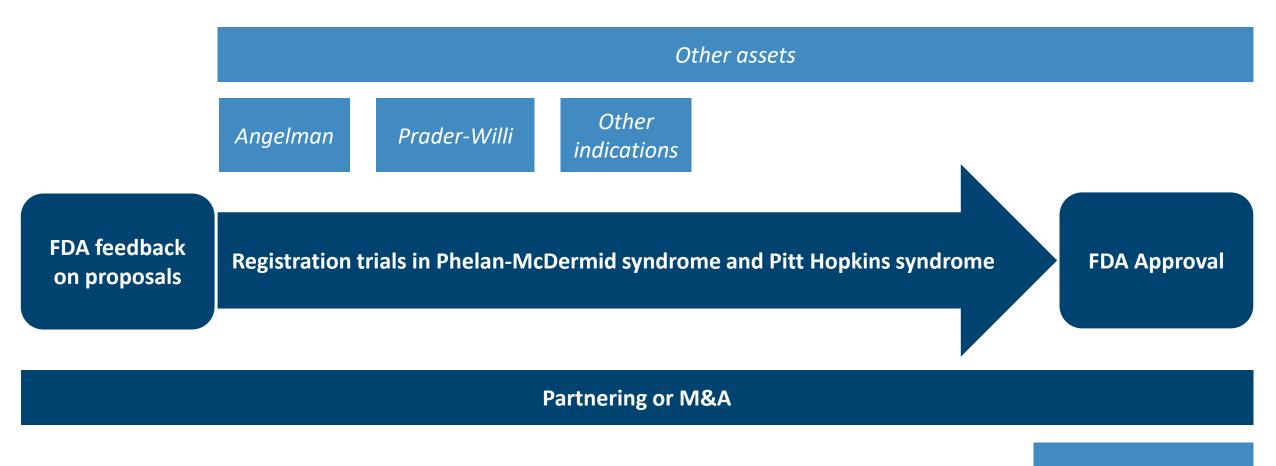
Post-FDA approval acquisition example:

2023
Reata acquired by Biogen for US\$7bn+

- One product approved in US and filed in EU for one orphan neurology indication
- Global rights available
- SKYCLARIS™ is the only approved treatment
- Similar patient numbers to Rett
- Similar price to DAYBUE™



Executing "Plan A" and retaining maximum optionality



Commercialise in US
Partner ex-US



