Improving Lives



Investor Presentation:

Autism Phase II/III Clinical Trial Results Rett Syndrome Phase I/II Clinical Trial Top-Line Results Capital Raise



Dr Tom Duthy Executive Director

17 April 2024

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Autism Spectrum Disorder (ASD) Goals

"The goals of treatment for ASD are to improve core deficits in social communication and social interactions and minimize the impact of restricted behaviours, with an overarching goal to help children develop greater functional skills and independence."¹



1. Weitlauf AS, McPheeters ML, Peters B, et al. Therapies for Children With Autism Spectrum Disorder: Behavioural Interventions Update. Rockville (MD): Agency for Healthcare Research and Quality (US); 2014 Aug. (Comparative Effectiveness Review, No. 137.) Introduction.



Autism Spectrum Disorder (ASD)

PREVALENCE OF ASD ~1 in 44 children in the US¹



Prevalence of ASD in Australia est. 1 in 50
40-fold increase in 20 years⁵

TREATMENT MARKET SIZE US\$2.0bn²



2 Approved Drugs (* limited use) Risperidone, Aripiprazole

Market

ASD is a serious <u>neuro inflammatory</u> developmental disorder that impairs the ability to communicate & interact

Common symptoms; behavioural issues, agitation, repetitive movements, inability to focus & compulsive neurological patterns

Current Treatment

Huge unmet medical need - patients need better treatment

Current drugs have numerous si effects; weight gain, breast tissu development, nausea, dry mouth anxiety, irritability, insomnia, sto pain & movement disorders

No FDA-approved drugs for the core symptoms of ASD (i.e. social communication, social interaction, restricted behaviours) **SIGNIFICANT UNMET MEDICAL NEED**

1. www.cdc.gov/ncbddd/autism/addm.html

2. https://www.fortunebusinessinsights.com/industry-reports/autism-spectrum-disorder-therapeutics-market-101207-CAGR-of-7-4.html





Initial Focus of NTI164 – A full spectrum, oral cannabinoid biopharmaceutical product

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Initial Phase I/II data positive at 4 weeks, 20 weeks and 52 weeks...safety past 90 weeks

ASD and the NDIS



230,119 as at 31 December 2023





NTI164 ASD Program Highlights



First in human Phase I/II ASD paediatric study (open-label n=14) Commenced in May 2021 at Monash Children's Hospital led by A/Prof. Michael Fahey

28 Day Data Released 8 July 2022

20 Week Data Released 26 October 2022

Strength of data facilitated a cap raise of \$9.0m to fund a larger study

Phase II/III ASD paediatric study (double-blind) n=54

Commenced in December 2022 at Monash Children's Hospital led by A/Prof. Michael Fahey Completed recruitment in December 2023 Last patient, last visit in April 2024







ASD Trial Design (NTIASD2)



Primary Endpoint

Clinical Global Impression – Severity of illness (CGI-S)



Secondary Endpoints

- Vineland[™]-3 (adaptive behaviours measure)
- **Clinical Global Impression Improvement (CGI-I)**
- Social Responsiveness Scale, 2nd Edition (SRS-2),
- Safety
- Change in Anxiety, Depression and Mood Scale (ADAMS)²

High potency, Broad Spectrum Cannabinoid Formulation in Oil, C. *sativa L.* (Plant Derived)

Entourage Effect je je

Neuroprotective



Anti-Neuroinflammatory

1. DAYBUE is a trademark of Acadia Pharmaceuticals Inc

2. Pending data



7

Baseline Patient Characteristics

Characteristic		Number (%) / Mean		
		NTI164 (n=26)	Placebo (n=28)	ΡV
Age		12.4 years	12.0 years	0.
Sex	Male	14 (54%)	15 (54%)	
	Female	12 (46%)	13 (46%)	— U.
	Overall Score	5.54 (100%)	5.21 (100%)	0.
CGI-S ¹	Mild Pts	1 (4%)	1 (4%)	N
	Moderate Pts	2 (8%)	9 (32%)	N
	Marked Pts	11 (42%)	5 (18%)	N
	Severe Pts	12 (46%)	13 (46%)	

1. Clinical Global Impression (CGI)- is a physician/observer-rated scale synthesizing the clinician's impression of the global state of an individual & frequently employed in clinical trials for neuropsychiatric disorders. CGI-S reflects clinician's impression of severity of illness on a 7-point scale ranging from 1 = not at all to 7 = among the most extremely ill. N/A – not available







A total of 54 patients evaluable for Primary Endpoint



<u>Clinical Global Impression- Severity of Iillness (CGI-S)CGI-S</u> is a single-item, 7-point scale by clinical judgment of the patient based on the clinician's total experience with the ASD population graded from 1 (very much worse). A decrease in CGI-I score indicates improvement. <u>Vineland^{TM-3}</u> is internationally recognised as a leading instrument for supporting the diagnosis of intellectual and developmental disabilities in ASD; specifically adaptive behaviour. Adaptive functioning, <u>Social Responsiveness Scale (SRS^{TM-2})</u> is internationally recognised as a leading instrument within the Autism spectrum



Significant treatment effect -1.65 (95% CI; -2.3, -1.0) versus placebo at 8 weeks (p<0.001)

Significant treatment effect 3.23 (95% CI; 0.44, 6.0) versus placebo at 8 weeks (p=0.024)

Significant treatment effect -1.42 (95% CI; -2.0, -0.82) versus placebo at 8 weeks (p<0.001)

Significant treatment effect -3.064 (95% CI; -5.781, -0.348) versus placebo at 8 weeks (p=0.028)

Expert Interpretation of Results



Professor Michael Fahey – Lead Investigator

"The analysis so far of the trial, which compared NTI164 to placebo over 8 weeks of daily treatment, have demonstrated statistically significant and clinically meaningful improvements in the severity of illness and adaptive behaviours such as communication and socialisation without any significant side effects. Currently, there are no FDA or TGAapproved treatments that show clinically significant improvements in one or more of autism's three core symptom domains: communication, impaired social interaction, and restricted behaviours. Therefore, the NTIASD2 clinical trial data look promising, given the substantial unmet market need for safe and effective therapies for autism, like NTI164."

1. www.cdc.gov/ncbddd/autism/addm.html

2. https://www.fortunebusinessinsights.com/industry-reports/autism-spectrum-disorder-therapeutics-market-101207-CAGR-of-7-4.html





Conclusion: NTI164 exhibits an excellent safety profile and minimal patient-specific side-effects





Primary Endpoint: CGI-S



CGI-Severity of illness versus placebo at 8 weeks¹ (p < 0.001)



RHA

1. Clinical Global Impression (CGI)- is a physician/observer-rated scale synthesizing the clinician's impression of the global state of an individual & frequently employed in clinical trials for neuropsychiatric disorders. CGI-S reflects the clinician's impression of severity of illness on a 7-point scale ranging from 1=Normal to 7=among the most extremely ill.





Mean Severity of Illness (n=54)

Clinical Interpretation

Placebo group showed no improvement at week 8 (1.8% worse) 28% improvement for NTI164 v placebo at 8 weeks, 32% v baseline Significant down-staging of patient's illness severity – 88% pts markedly/severely ill at baseline in the NTI164 arm

Secondary Endpoint: CGI-I



Clinical Global Impression – Improvement (CGI-I) is a 7-point scale that reflects experts' clinical judgment of the patient based on the clinician's total experience with the ASD population graded from 1 (very much improved) to 7 (very much worse). A decrease in CGI-I score indicates improvement.

	Very Much Improved	Much Improved	Minimally Improved	No Change	Minimally Worse	Much Worse	Very Much Worse
Scale	1	2	3	4	5	6	7
Placebo (week 8)	-	1(4%)	11 (39%)	8 (29%)	4 (14%)	2 (7%)	2 (7%)
NTI164 (week 8)	2 (8%)	10 (38%)	10 (38%)	4 (15%)	-	-	-



1. Clinical Global Impression (CGI) - is a physician/observer-rated scale synthesizing the clinician's impression of the global state of an individual & frequently employed in clinical trials for neuropsychiatric disorders. Clinical Global Impression – Improvement (CGI-I) is a 7-point scale that reflects experts' clinical judgment of the patient based on the clinician's total experience with the ASD population graded from 1 (very much improved) to 7 (very much worse). A decrease in CGI-I score indicates improvement.



Secondary Endpoint: Vineland[™]-3

Vineland[™]-3¹

Standardised measure of adaptive behaviour

Norm-based: adaptive functioning compared to others of same age

Excellent test, re-test reliability & between rater (clinician, parent)

Vineland-3 Domain 8 week measure	Treatment Effect	P-value
Adaptive behaviour composite	3.23	0.0240
Communication	2.92	0.0467
Daily living skills	3.56	0.0213
Socialisation	3.47	0.0475

1. Vineland TM-3 is internationally recognised as a leading instrument for supporting the diagnosis of intellectual and developmental disabilities in ASD; specifically adaptive behaviour. Adaptive functioning, which are skills people need to function independently at home, at school and in the community is an important factor in predicting long-term outcomes for people with ASD. Improving adaptive abilities in patients is therefore a desirable treatment goal. The adaptive behaviour composite consists of (a) communication, (b) daily living skills & (c) socialisation.







Clinical Interpretation

- No Secondary endpoints were statistically powered • for this trial
- Adaptive behaviour improvement is a treatment goal in ASD
- Statistical significance reached for adaptive behaviour composite and all three sub-domains

Data Comparison & Context - Risperidone



behaviours, with an overarching goal to help children develop greater functional skills and independence."

1. Kent, et al. Risperidone Dosing in Children and Adolescents with Autistic Disorder: A Double-Blind, Placebo-Controlled Study. Journal of autism and developmental disorders. 2012. 43. 10.1007 2. A Study to Evaluate the Efficacy and Safety of Risperidone (R064766) in Children and Adolescents With Irritability Associated With Autistic Disorder, 2015 3. Ghaeli P et al. Effects of risperidone on core symptoms of autistic disorder based on childhood autism rating scale: an open label study. Indian J Psychol Med. 2014 Jan;36(1):66-70. 4. McDougle CJ, et al.. Risperidone for the core symptom domains of autism: results from the study by the autism network of the research units on pediatric psychopharmacology. Am J Psychiatry. 2005 Jun;162(6):1142-8



NTI164 Phase I/II (n=11)





NTI164 Phase <u>II/III (n=54)</u>

as (p=0.005), 26% improvement as (p=0.032) edly or severely ill at baseline – 0% ult: 100% mildly ill	 -1.48 change v placebo at 8 weeks, 28% improvement Treatment effect of -1.6 (p<0.001) 88% of subjects markedly or severely ill at baseline – 27% at 8 weeks 19% borderline ill at 8 weeks 	
s showed improvement after 20 nt with NTI164 proved at 20 weeks mproved at 52 weeks 10% very	 86% of patients showed improvement at 8 weeks of daily treatment with NTI164 v 43% placebo 46% of NTI164 patients very much or much improved v 4% for placebo 	
ean difference of 3.8 (p=0.0005) at ference 6.4 at 52 weeks (p=0.028) ovement ovements also in domains of iving, socialisation at 20 weeks and tion)	 Adaptive behaviour treatment effect 3.23 v placebo (p=0.024) Highly significant improvement Highly significant improvements also in domains of communication, daily living, socialisation by 8 weeks 	
oain	 Nausea / Vomiting (8% pts) No diarrhoea 	_

RCT- randomised controlled trial; BMI - Body Mass index

Secondary Endpoint: SRS



Children with autism spectrum disorder have difficulty with social interaction behaviours, including establishing and maintaining relationships, reciprocating social interaction, and communicating with others. SRS-2 is a validated measurement tool of assessing these factors

 \bullet

SRS-2 Domain (8 week measure)	Treatment Effect	P-value
Total Score	-3.064	0.028

1. Social Responsiveness Scale (SRS[™]-2) is internationally recognised as a leading instrument (65 items) for identifying the presence and severity of social impairment within the Autism spectrum and differentiates it from that which occurs in other disorders. The SRS-2 total score is the most reliable measure for social deficits related to ASD. SRS-2 is distinct from other measures in that it provides a continuous measure of social ability (from impaired to above average) instead of a categorical yes/no identification of ASD impairments. High scores are associated with more severe social impairments. SRS-2 is a valid and reliable quantitative measure of core ASD symptoms related to social impairment.







Clinical Interpretation

Clinically meaningful and statistically significant treatment effect at 8 weeks

Reinforces positive impacts of NTI164 on an important core symptom of ASD - social behaviours, including communication

Conclusions





NTI64 has demonstrated a statistically significant and clinically meaningful improvement in ASD across multiple measures of assessments relating to severity of illness, drug-related improvement, adaptive behaviours and socialisation

No serious adverse events. Small number of adverse events, relating to nausea/vomiting (formulation-related) and no diarrhoea observed in NTI164 arm. None of these adverse events were serious and were not considered to significantly interfere with the patient's functioning and none of the adverse events required any additional medications (i.e.

No FDA, TGA or EMA-approved drugs for the core symptoms of ASD (i.e. social communication, social interaction, restricted behaviours)

Rett Syndrome Phase I/II Trial

or personal

"Caregivers of children with RTT experience the illness as being like an "obstacle course", where they must continuously overcome hurdles. These include hindrances for finding responses to their symptoms and achieving a diagnosis, for managing the treatment and daily care, and for finding the essential financial resources to meet all the expenses generated by the illness."





About Rett Syndrome



About



- binding protein 2 (MECP2) gene located on the X chromosome: impaired brain development and function
- 200,000 affected individuals in the US) by the Office of Rare Diseases of the National Institutes of Health

Neuroinflammation

- Numerous scientific reports support neuroinflammatory effects in Rett Syndrome
- NTI164 shown to exhibit anti-neuroinflammation and neuroprotective effects in vitro

First Ever Approval



- •
- Sets benchmark for FDA accepted clinical endpoints, safety and tolerance •
- 1. https://www.livewiremarkets.com/wires/a-de-risked-biotech-with-4x-upside
- 2. https://reverserett.org/about-rett-syndrome/



• Rare genetic neurological and developmental disorder and is almost exclusively the result of a mutation(s) in the methyl CpG

• Currently there is no cure for people with Rett syndrome and classified as a "rare/orphan disease" (by definition, less than

MeCP2 deficiency exacerbates the neuroinflammatory setting and autoreactive response during an autoimmune challenge

M. I. Zalosnik^{1,2}, M. C. Fabio³, M. L. Bertoldi^{1,2}, C. N. Castañares³ & A. L. Degano^{1,7}

Chapter 14

Microglia Involvement in Rett Syndrome

Noël C. Derecki, James C. Cronk, Jonathan Kipnis

Neuren Pharmaceuticals (ASX:NEU) / Acadia Pharmaceuticals (NASDAQ:ACAD): FDA Approval 10 March 2023

Rett Syndrome Market Dynamics



Significant Market



- 17-26k patients in USA, Europe, Japan, Australia
- Est. US\$2 billion annual market opportunity
- Narrow range of Rett specialist clinicians: focused prescriber group
- **Concentrated market dynamics: 18 Rett** Centres of Excellence in the US (3 in AU)
- No approved Rett drugs in Europe, Japan • and Australia (USA:1)



Single Approved Therapy



- **First FDA** approved therapy (March 2023)
- Est. drug cost to patient ~US\$1,000 per day. US\$87 million in Q4 CY2023 (US\$177m in CY2023) net sales
- Q3: 800 patient starts (4,500 registered with Rett, ~18% penetration) – strong demand highlights urgent market need
- CY2024 sales est. US\$370m US\$420m







Valuation/Pricing Benchmarks





pharmaceuticals

- Neuren (ASX:NEU) license deal with Acadia (NASDAQ:ACAD) close to US\$1 billion for trofinetide (*inc other indications)
- 80% covered lives for DAYBUE[™] from US payers within 6 months – rapid reimbursement adoption
- Market approval via single Phase 3 clinical trial v placebo ("Lavender" – 187 pts), with open-label extension ("Lilac" – 154 pts)

Safety Data of Interest

Safety Over 12 Weeks: Key Focal Points





Weight Loss

12% pts with >7% weight loss

No significant weight change noted for Neurotech ASD & PANDAS/PANS Phase I/II trials





Nausea/Vomiting

29% pts

5% of pts for ASD (20 weeks) and 13% of pts for PANDAS/PANS (12 weeks) for NTI164 8% NTI164 v 11% placebo in Phase II/III ASD





82% pts

0% reported in Neurotech ASD Phase I/II and Phase II/III (placebo 8%) and PANDAS/ PANS trials





Rett Syndrome Trial Design (NTIRTT1)



High potency, Broad Spectrum Cannabinoid Formulation in Oil, C. sativa L. (Plant Derived)

Entourage Effect ter and a **Neuroprotective**

Anti- Neuroinflammatory







Primary Endpoint

Clinical Global Impression – Improvement (CGI-I)



Secondary Endpoints

- **Rett Syndrome Behaviour Questionnaire (RSBQ)**
- **Rett Syndrome: Symptom Index Score (RTT-SIS)**
- RTT- Clinician Domain Specific Concerns Visual Analog Scale (RTT-DSC-VAS)
- Communication and Symbolic Behaviour Scales Developmental **Profile™ Infant-Toddler Checklist (CSBS-DP-IT Social)**
- Impact of Childhood Neurological Disability Scale (ICND)
- **RTT Caregiver Burden Inventory (RTT-CBI)**
- Overall Quality of Life Rating of the Impact of Childhood **Neurological Disability Scale (ICND-QoL)**
- **CGI-severity of illness (CGI-S)**
- * Pendina Safety

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* No participants received DAYBUE<sup>™</sup> (trofinetide)<sup>1</sup>
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* Pending

Top-Line Clinical Results

A total of 14 patients evaluable at 12 weeks

CGI-I Primary Endpoint Significantly Improved

CGI-I versus baseline mean difference of -0.3 (95% CI -0.015, -0.56; p = 0.04)

Data compares favourably to DAYBUE[™] (trofinetide) Phase 3 data v placebo (mean difference -0.3, p=0.003)¹

[DAYBUE CGI-I reported – 61% of patients "Unchanged", 25% of patients "Minimally Improved", 13% of patients "Much Improved"]

Data analysis and interpretation remains ongoing for further primary endpoint analysis, reporting of secondary endpoints (inc. RSBQ) and safety/tolerability

Neurotech on-track to report further clinical trial data in the next 2-4 weeks

1. Neul, J.L. et al. Trofinetide for the treatment of Rett syndrome: a randomized phase 3 study. Nat Med 29, 1468–1475 (2023). Clinical Global Impression (CGI) - is a physician/observer-rated scale synthesizing the clinician's impression of the global state of an individual & frequently employed in clinical trials for neuropsychiatric disorders. CGI- Improvement (CGI-I) is a 7-point scale that requires the clinician to assess how much the patient's illness has improved or worsened relative to a baseline state at the beginning of the intervention (1 – "Very Much Improved" 2 - "Much Improved" 3 - "Minimally Improved" 4 - "No Change" 5 - "Minimally Worse" 6 - "Much Worse" 7 - "Very Much Worse").













Pro-Forma Capital Structure

PRO-FORMA CAPITAL STRUCTURE - \$10 Million

Current Shares on Issue

New Shares

Pro-Forma Shares on Issue

Pro-Forma Cash¹

Pro-Forma Enterprise Value (undiluted)²

1. Cash at 31 December 2023 - \$4.5 million, Option exercises - \$1.5m; Placement of \$10.0m minimum, transaction costs of \$(0.5m)

2. Placement price shares on issue post placement less pro-forma net cash position post placement (no debt)



n Placement	
	917.4M
	100.0 M
	1017.4M
	\$15.5M
	\$86.2M

Timetable*

Event

Settlement of Placement Shares & Unlisted Options

Allotment of Placement Shares on ASX & Commencement of Trading

Allotment of Unlisted Options

* Timetable is indicative and subject to change



Date	9
23 April 2	024
24 April 2	024
24 April 2	024

Use of Funds

EVENT

Further human clinical trials NTI164 (Rett, PANS, Other)

Regulatory Development

IND Enabling Toxicology

Manufacturing / Production Expansion

Offer Costs / Other

TOTAL

* In addition, the Company is entitled to 43.5% to 48.5% of eligible R&D expenditure returned in cash through the Australian government R&D Tax Incentive



ALLOCATION OF FUNDS (PLACEMENT)
\$5.5 M
\$0.5 M
\$2.4M
\$1.0M
\$0.6M
\$10.0M

Key Milestones – NTI164

1H CY2024

- HREC/TGA Approval Cerebral Palsy Phase I/II Clinical Trial 24-week PANDAS/PANS Phase I/II Clinical Trial Data Rett Syndrome Phase I/II (14 girls) 52-week Extension HREC Approval **Results of ASD Phase II/III Clinical Trial Top-line Rett Syndrome Phase I/II Clinical Trial data Results of Rett Syndrome Phase I/II Clinical Trial – full data** Meeting outcome – TGA¹ Regulatory Advice **Publications for ASD Phase I/II + pre-clinical NTI164 results**
 - Metabologenomic data from Phase I/II PANDAS/PANS Clinical Trial

- **Orphan Drug Designation USA Rett Syndrome**
- **Orphan Drug Designation USA PANDAS/PANS**
- **Commence Phase I/II Cerebral Palsy Clinical Trial**
- FDA IND / EMA² toxicology
- Presentation of Phase I/II Rett Syndrome data at international Rett meeting



2H CY2024

- **Orphan Drug Designation Europe Rett Syndrome**
- **Orphan Drug Designation Europe PANDAS/PANS**





Neurotech: Strategies, Pipeline, Milestones, Outlook





Neurotech is a clinical-stage Selection of the s **Scompany focused predominately on** paediatric neurological disorders

> **NTI164 exclusive worldwide** licence for neurological disorders

Patents Pending – Use, Composition





Multiple Phase I/II and Phase II/III Clinical Trials





Novel oral biopharmaceutical cannabinoid platform **(NTI164)**



Supportive Efficacy & Safety Data in Children

Neurotech Four Core Strategies



Focus on Paediatric Patients



Focus on Partnering with Key Opinion Leaders / Clinicians





Focus On Rare Neurological Disorders with Neuroinflammation



Focus On Drug Product Development





Convenient 1x or 2x (split dose) oral formulation in oil, ideal format for pediatric patients 20mg/kg (CBDA)

NTI164 is not a low dose **CBD** oil to be sold overthe-counter



Anti- Neuroinflammatory

Our Target Markets

Lack of effective therapies, significant unmet medical need



1. Neurotech Estimate based on: Wald ER, et al. Estimate of the incidence of PANDAS and PANS in 3 primary care populations. Front Pediatr. 2023 Sep 21; EU/UK: 8,000 pts / US: 6,000 pts <18 years based on annual intravenous immunoglobulin (IVIG) cost of ~US\$100k (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8019941/)





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