

Upstream intervention to address multiple hallmarks of AD

Tackling AD at the roots

Important notice and disclaimer

This document has been prepared by Vivoryon Therapeutics N.V. (the “Company” or “We”) strictly only for discussion purposes. This document does not constitute or form part of any offer or invitation to sell or issue, any offer or inducement or invitation or commitment to purchase or subscribe for, or any solicitation of any offer to purchase or subscribe for, any securities in the Company or any other entity. By reviewing this document, you represent that you are able to receive this document without contravention of any legal or regulatory restrictions applicable to you and will not use this information in relation to any investment decision.

This document and its contents may not be reproduced, redistributed, published or passed on, directly or indirectly, to any other person or published, in whole or in part, for any purpose. Failure to comply with these restrictions may constitute a violation of applicable securities laws. By accepting and reading this document, you will be deemed to agree not to disclose, reproduce or otherwise distribute any information contained herein.

Certain information contained in this document has been obtained from published and non-published sources prepared by third parties. While such information is believed to be reliable for the purposes used herein, none of the Company or its affiliates, directors, officers, employees, members, partners, shareholders or agents make any representation or warranty with respect to or assume any responsibility for the accuracy of such information, and such information has not been independently verified by the Company.

Certain statements contained in this document constitute forward-looking statements, estimates, predictions, influences and projections which are subject to risks and uncertainties and may reflect various assumptions, which may or may not prove to be correct. These forward-looking statements include information about possible or assumed future results of the Company’s business, financial condition, results of operations, liquidity, plans and objectives. In particular, the words “anticipate,” “believe,” “could,” “expect,” “should,” “plan,” “intend,” “estimate” and “potential,” or other similar expressions are intended to identify forward-looking statements. Forward-looking statements appear in a number of places in this presentation and include, but are not limited to, statements regarding our intent, belief or current expectations. Forward-looking statements are based on our management’s beliefs and assumptions and on information currently available to our management. Such statements are subject to risks and uncertainties, and actual results may differ materially from those expressed or implied in the forward-looking statements due to of various risk factors and uncertainties including without limitation in relation to: the effectiveness of our main product candidate, and our ability to commercialize it if the regulatory approval is obtained; our ability to explore benefits of combination therapies between our product candidates and other products; our ability to compete and conduct our business in the future; our ability to overcome the challenges posed by the COVID-19 pandemic to the conduct of our business; our ability to expend our limited resources and to obtain funding for our operations necessary to complete further development and commercialization of our product candidates; the timing of and our ability to obtain and maintain regulatory approval for our product candidates; the initiation, timing, progress, results, and cost of our research and development programs and our current and future preclinical studies and clinical trials, including statements regarding the timing of initiation and completion of studies or trials and related preparatory work, the period during which the results of the trials will become available and our research and development programs. Moreover, we operate in an evolving environment. Thus, new risk factors and uncertainties emerge from time to time and it is not possible for our management to predict all risk factors and uncertainties, 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 qualify all of our forward-looking statements by these cautionary statements.

Forward-looking statements speak only as of the date they are made, and we do not undertake any obligation to update them in light of new information or future developments or to release publicly any revisions to these statements in order to reflect later events or circumstances or to reflect the occurrence of unanticipated events or otherwise, except as required by applicable law.



Vivoryon Uniquely Positioned to Bring Oral, Highly Differentiated, Post PoC Small Molecule to Patients with Alzheimer's Disease



Unique first-in-class approach designed to overcome challenges in AD

- ◆ **Reduces brain damage:** blocks formation of neurotoxic N3pE-amyloid
- ◆ **Validated MOA:** targeting all key hallmarks of AD (amyloid, tau, neuroinflammation)
- ◆ **Avoids mAb constraints:** ARIA, imaging, infusions, costs
- ◆ **Large addressable market**



Phase 2 studies progressing well with no drug-related ARIA, very low AE-related discontinuations

- ◆ **Delivering on our promise:** post-positive PoC, orally available, favorable safety profile to date
- ◆ **VIVIAD (EU):** Fully recruited (259 pts), ~82 weeks of treatment, final data readout: Q1/2024
- ◆ **VIVA-MIND (US):** Cohort A fully recruited (60 pts), DSMB recommended to continue without modification



Senior management changes and funding support future success

- ◆ **New CEO** Frank Weber, new CS&IRO Anne Doering
- ◆ **New Board Members:** Kugan Sathiyandarajah and Morten Asser Karsdal
- ◆ **Healthy runway:** recent private placement (€25m) extending cash runway through key milestones into H2/2024



Recent Management and Board Changes Strengthen Development Experience, Enhance Business Acumen and Prepare Company for Next Phase

MANAGEMENT



Frank Weber, MD
Chief Executive Officer / Chief Medical Officer



Michael Schaeffer, PhD
Chief Business Officer, Executive Director



Florian Schmid
Chief Financial Officer, Executive Director



Anne Doering, CFA
Chief Strategy & Investor Relations Officer



NON-EXECUTIVE DIRECTORS

Erich Platzer, MD, PhD
Chairman of the Board

Kugan Sathiyandarajah
Vice-Chairman & Chair Compensation Committee

Prof. Morten Asser Karsdal
MSc, PhD, mMBA

Charlotte Lohmann
Chair Nomination & Corporate Governance Committee

Claudia Riedl, PhD
Chair Audit Committee

Samir Shah, MD
Chair IR Committee



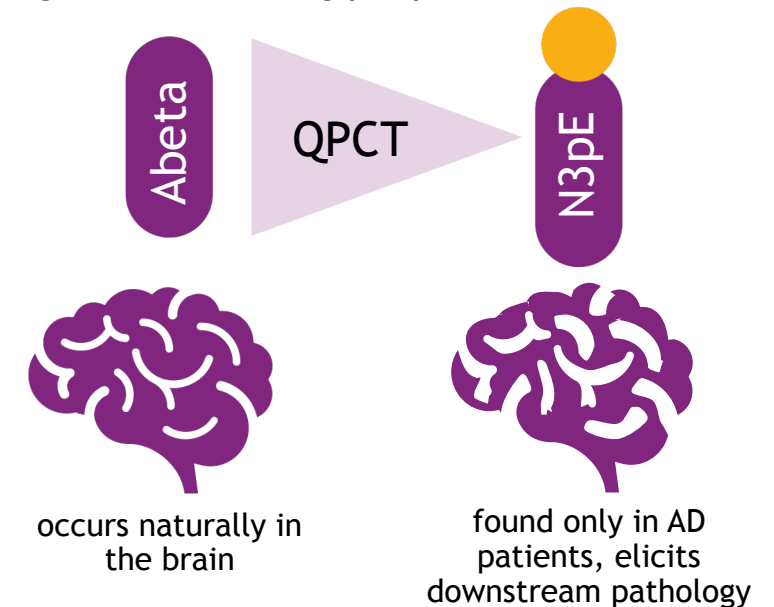
Vivoryon Pioneering Small Molecule-Based Therapies Designed to Prevent N3pE-Abeta Formation Rather Than Aiming to Clear Existing Plaques

ONGOING CHALLENGES IN AD

- ◆ ~30 million people worldwide and expected to double by 2050, with ~12.7 million in the US alone
- ◆ Recent advances with mAbs (e.g. lecanemab, donanemab) show promise, but come with **significant limitations**
- ◆ **Multitude of clinical studies, but statistical significance does not necessarily imply a meaningful drug** to individual patients and their caregivers
- ◆ **Lack of meaningful endpoints** to enable reliable evaluation of study data for correlation to real-life benefit
- ◆ **Meaningful trial design** is needed to leverage existing data to select the right patients/appropriate treatment duration
- ◆ **New modalities** are needed to address hallmarks of AD beyond Aβ

VIVORYON'S APPROACH

- ◆ Discovered QPCT-mediated formation of a neurotoxic Aβ variant, N3pE-Aβ (pGlu-Aβ), as driver of AD pathology^{1,2}
- ◆ Pioneering small molecule-based therapies designed to prevent N3pE-Aβ formation - rather than aiming to clear existing plaques³

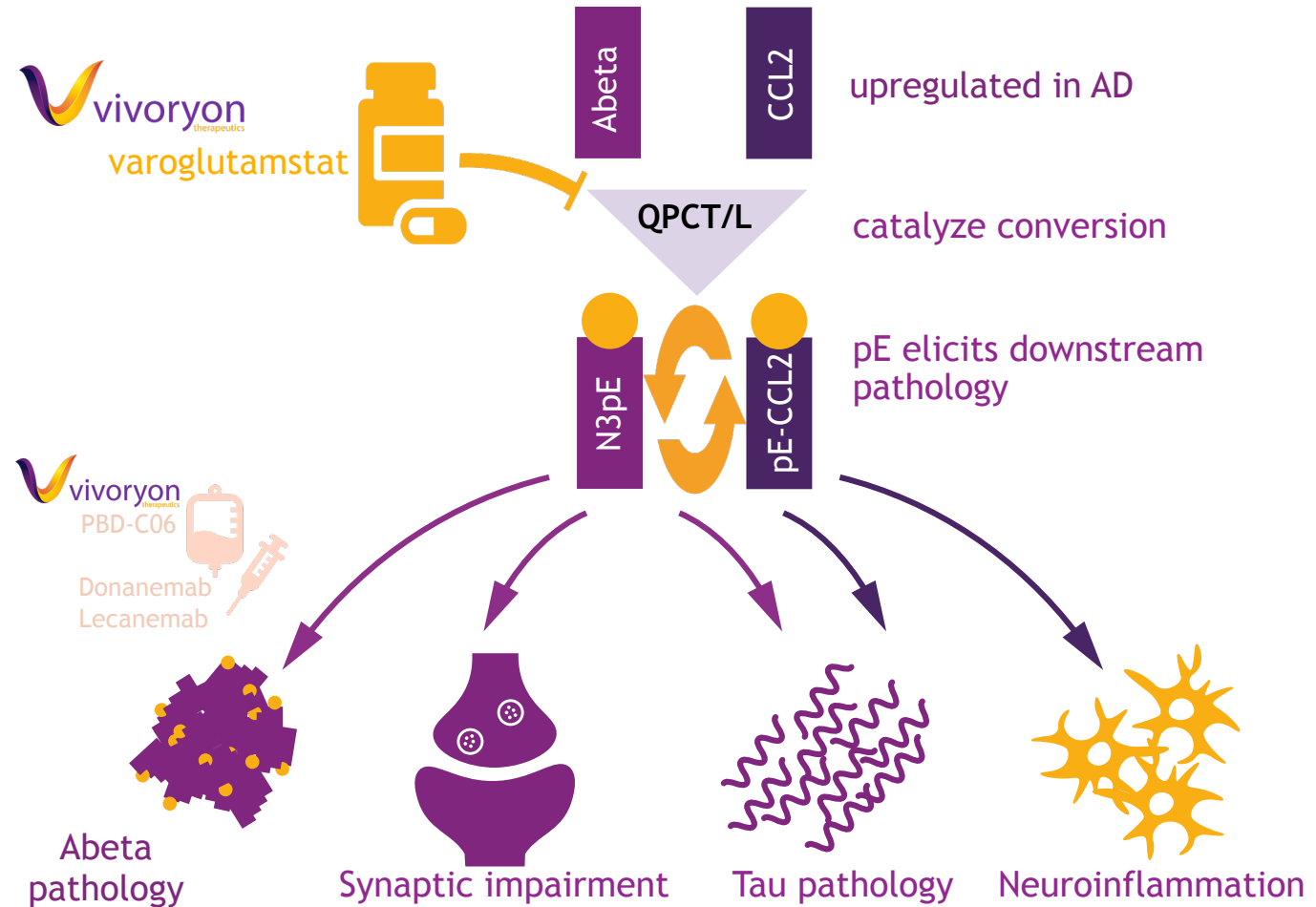


Our Lead Product Candidate, Varoglutamstat, Targets Multiple Key Hallmarks of Alzheimer's Disease Early in Pathological Process

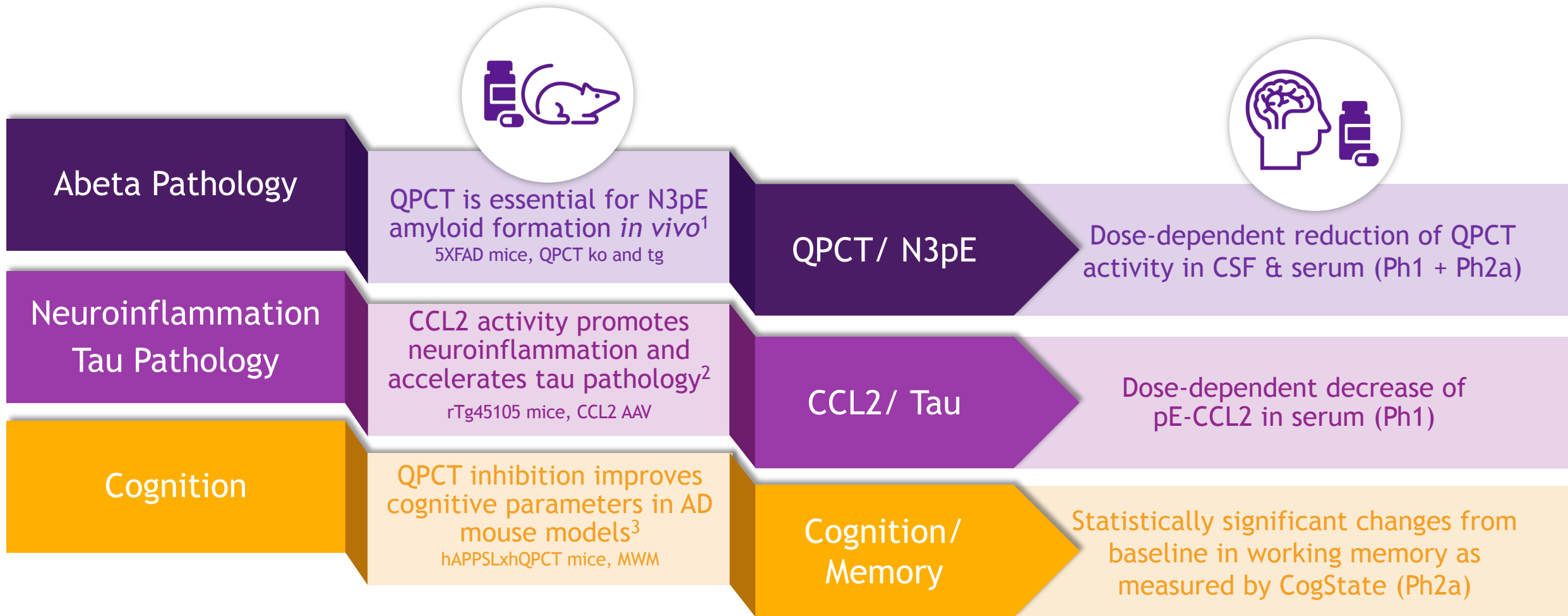
ROLE OF QPCT/L IN AD PATHOLOGY

- ◆ Increased activity of glutaminyl cyclase (QPCT) is associated with AD pathology in humans¹
- ◆ QPCT catalyzes formation of neurotoxic N3pE-Abeta- which is not found in healthy individuals. ^{2,3}
- ◆ Varoglutamstat efficiently inhibits QPCT, thus targeting N3pE-Abeta monomer formation and all of its aggregation states⁴
- ◆ Varoglutamstat also efficiently inhibits QPCTL (isoform of QPCT) leading to decreased neuro-inflammation by attenuating CCL2 activity⁵
- ◆ Low MMSE scores correlate with high N3pE-Abeta, high QPCT levels, high pE-CCL2 and high QPCTL levels in AD patients^{3,5}
- ◆ QPCT/L activity is the key driver of a pathologic cycle involving neuroinflammation, pE-CCL2 and N3pE-Abeta⁵

VAROGLUTAMSTAT TARGETS AD PATHOGENESIS EARLY-ON



QPCT/L Inhibition Has Significant Potential in Humans with Alzheimer's Disease: Translating *In Vivo* Evidence into Proof of Concept in AD Patients



Varoglutamstat Clinical Development Strategy

Clear Path To Potential Regulatory Approval Based on Well-Informed, Extensive Phase 1 and Phase 2 Trials



Preclinical research *In vitro and in vivo studies*

COMPLETED

- ◆ QPCT inhibition improves cognitive parameters in AD mouse models
- ◆ QPCT is essential for N3pE amyloid and pE-CCL2 formation *in vivo*



Phase 1

Assessment of safety and tolerability in 205 healthy volunteers

COMPLETED

- ◆ Varoglutamstat is well-tolerated - no DLT at 800mg twice daily or up to 3.6g once daily

Phase 1

*Assessment of safety and tolerability in 60 healthy Chinese volunteers**

IN PREPARATION



Phase 2a SAPHIR

12-week Proof of Concept study in 120 patients with early AD

COMPLETED

- ◆ Statistically significant changes from baseline in working memory after 3 months of treatment
- ◆ Strong evidence of synaptic recovery
- ◆ High target occupancy detected at doses of 150mg BID and above



Phase 2b VIVIAD

Assessment of safety, tolerability and efficacy in 250 patients with MCI or mild AD

Fully recruited
Final readout Q1/2024

- ◆ Endpoints: safety, efficacy (NTB, attention/ working memory, biomarkers)
- ◆ Fully enrolled (259 pts); planned to allow for mean treatment duration of ~82 weeks

Phase 2a/b VIVA-MIND

Assessment of efficacy and safety in 180/414 patients with early AD

Expanded treatment duration in Phase 2a portion (72 weeks)
Study status update in Q4/2023

- ◆ Endpoints: safety, efficacy (attention/working memory, CDR-SB, biomarkers)

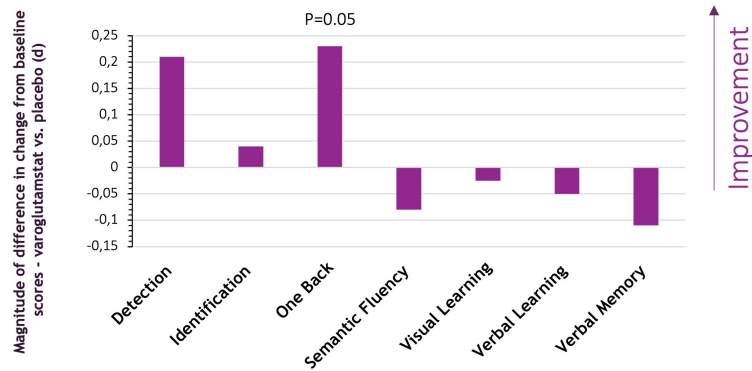
Pivotal study or accelerated approval

- ◆ FDA Fast Track designation granted in 2021
- ◆ Two possible scenarios for late-stage development
 - Application for accelerated approval (based on consistent / positive data of Phase 2b studies)
 - Phase 3 clinical development



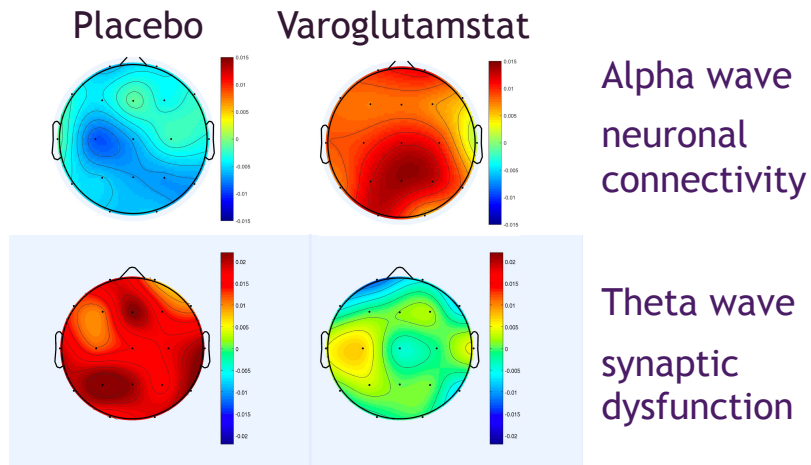
Phase 2a SAPHIR Study Provides Evidence of Significant Changes in Working Memory and Synaptic Recovery After Only 12 Weeks of Treatment

Significant Changes in Working Memory¹



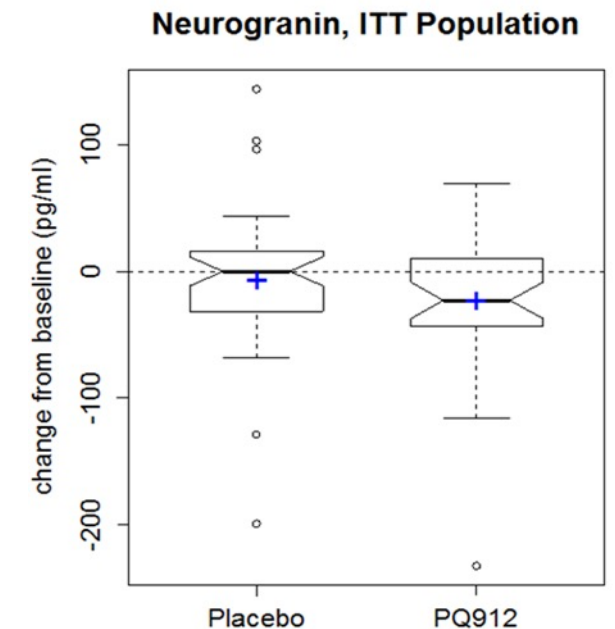
- Statistically significant changes from baseline in working memory (One Back Test, $p = 0.05$, $d = 0.23$, ITT) in AD patients after 12 weeks of treatment

Recovery EEG Synaptic Activity^{1,2}

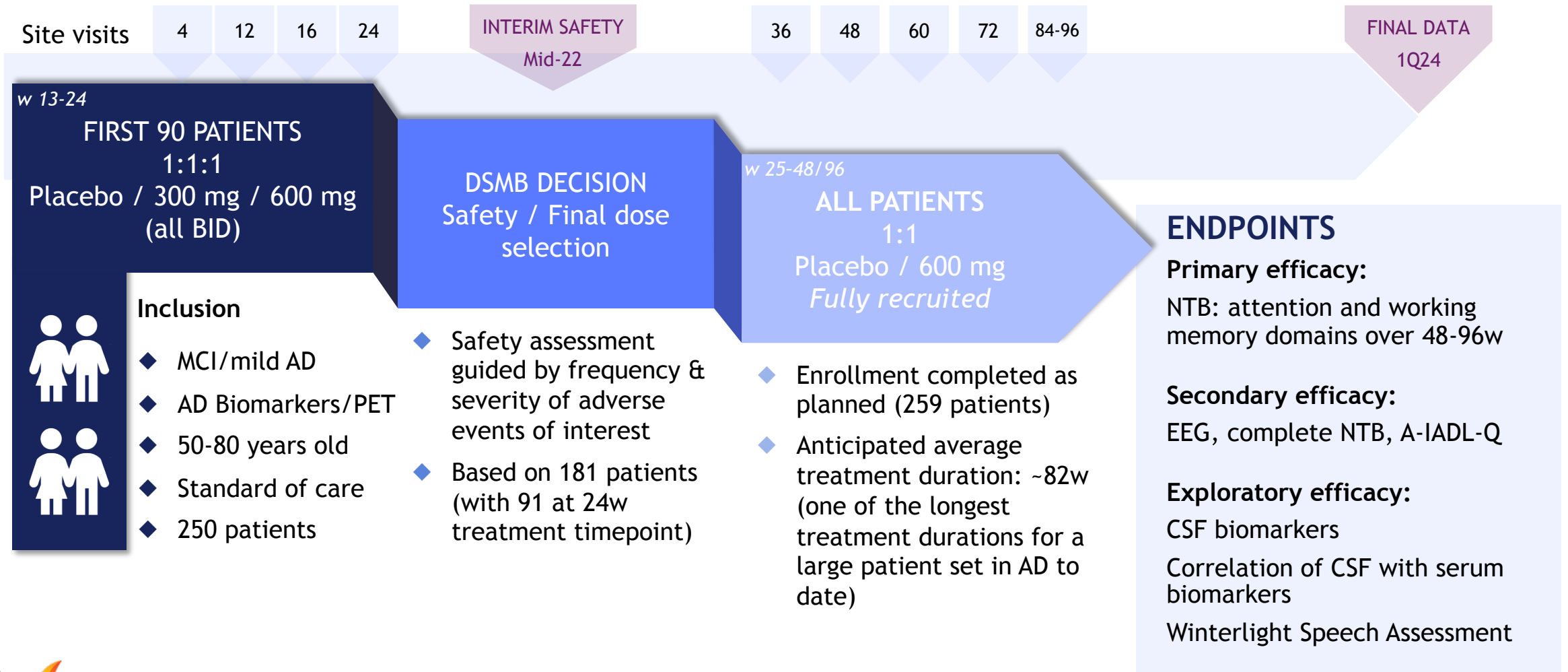


- Significant ($p=0.002$, ITT and PP) decrease in theta power
- Post hoc analysis of alpha wave: significant increase on connectivity - amplitude envelope correlation (AEC) $p=0.025$

Reduction of Neuronal Injury Biomarker¹



VIVIAD Assesses Safety, Tolerability and Efficacy of Varoglutamstat in Patients with MCI and Mild AD^{1,2}



w 13-24
FIRST 90 PATIENTS
 1:1:1
 Placebo / 300 mg / 600 mg
 (all BID)

- Inclusion**
- ◆ MCI/mild AD
 - ◆ AD Biomarkers/PET
 - ◆ 50-80 years old
 - ◆ Standard of care
 - ◆ 250 patients

DSMB DECISION
 Safety / Final dose selection

- ◆ Safety assessment guided by frequency & severity of adverse events of interest
- ◆ Based on 181 patients (with 91 at 24w treatment timepoint)

w 25-48/96
ALL PATIENTS
 1:1
 Placebo / 600 mg
Fully recruited

- ◆ Enrollment completed as planned (259 patients)
- ◆ Anticipated average treatment duration: ~82w (one of the longest treatment durations for a large patient set in AD to date)

ENDPOINTS

Primary efficacy:
 NTB: attention and working memory domains over 48-96w

Secondary efficacy:
 EEG, complete NTB, A-IADL-Q

Exploratory efficacy:
 CSF biomarkers
 Correlation of CSF with serum biomarkers
 Winterlight Speech Assessment

VIVIAD Inclusion Criteria Enabled Precision Recruitment

Lessons learned: Recruiting the right patients with early AD is a critical success factor for VIVIAD

BASIC REQUIREMENT:

- ◆ Mandatory sampling for inclusion: all patients included had low Abeta and high p-tau CSF values

RETHINKING MCI ASSESSMENT:

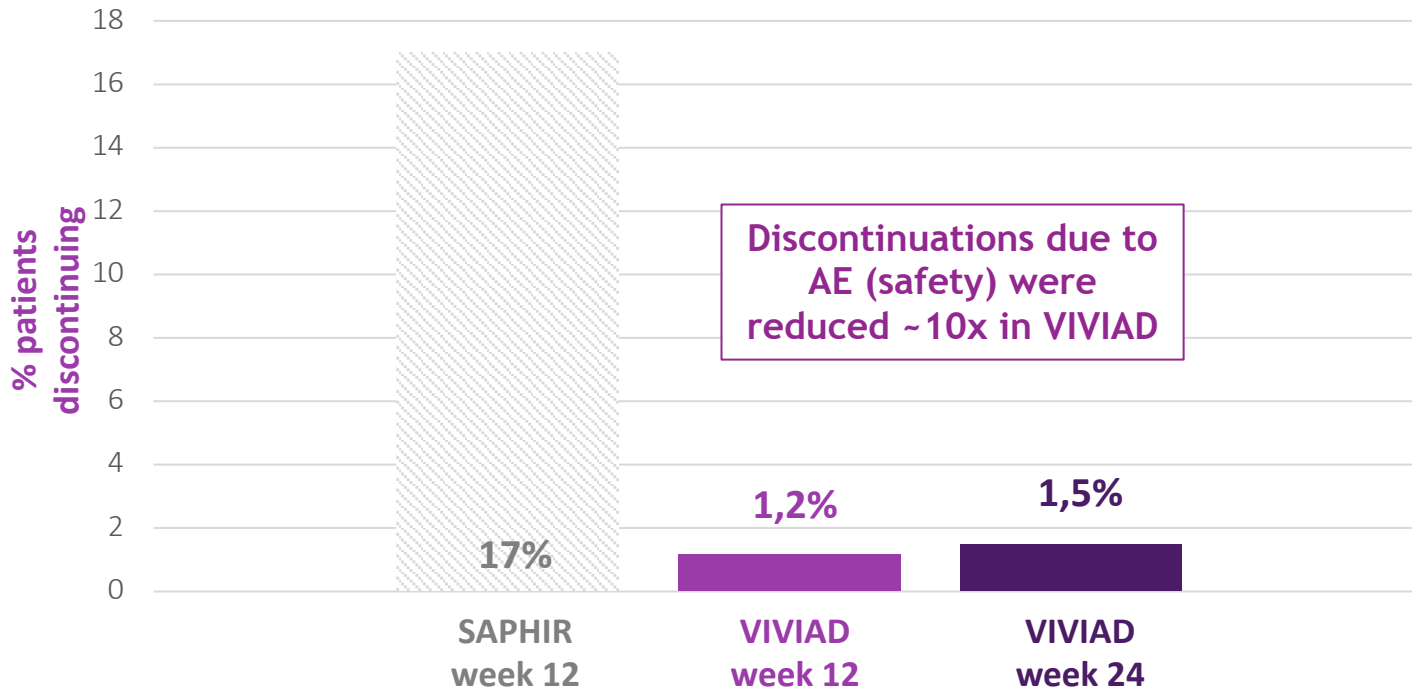
- ◆ Precision recruitment of individuals with at least minimal cognitive impairment by using the WAIS IV inclusion criterion (at least half a standard deviation worse than age and education matched healthy population)
- ◆ Baseline mean value of MMSE in VIVIAD is 24.5

	N	Mean	Median	SD	Value
Age	259	68,44	70	7,40	63 to 74
MMSE total score - V1	259	24,51	25	2,73	22 to 27
WAIS-IV total score - V1	259	27,75	28	12,36	19 to 37

➤ Study population exactly represents early AD population

VIVIAD: Low Number of Discontinuations Due to AE

SAPHIR (active and placebo groups) vs. blinded VIVIAD data



Safety profile of varoglutamstat strongly improved vs. 1st in patient study SAPHIR

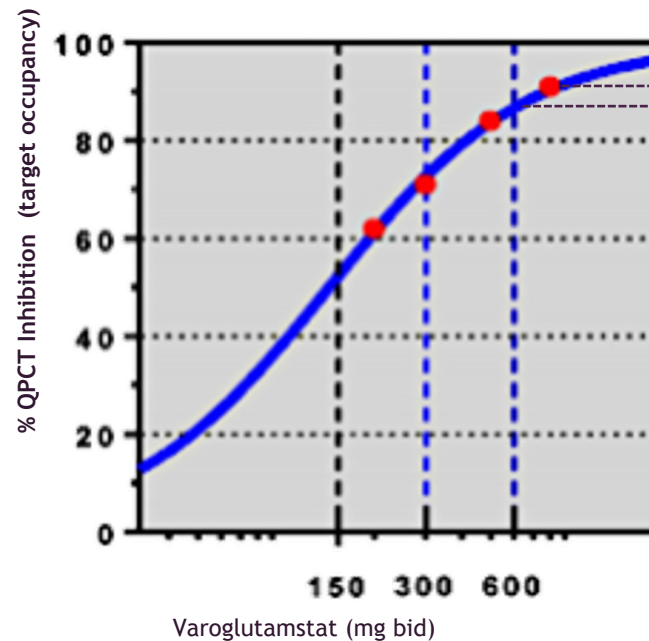
- ◆ Total number of discontinuations remains low in VIVIAD throughout the study, today 10%
- ◆ Number of discontinuations due to AE remain low in VIVIAD throughout the study, today < 4%
- ◆ Titration phase of VIVIAD is through week 12
- ◆ High dose of 600mg twice daily with nearly 90% target occupancy

Informed Design of VIVIAD vs. SAPHIR: Slower Titration and Lower Final Dose While Maintaining Level of Target Inhibition

Dose and titration
varoglutamstat mg

Weeks	1	2	3&4	5 to 8	9 to 12	After 12
SAPHIR	400 BID	800 BID	800 BID	800 BID	800 BID	STOP
VIVIAD	50 OD	50 OD	50 BID	150 BID	300 BID	600 BID

Target occupancy /
QPCT inhibition in CSF

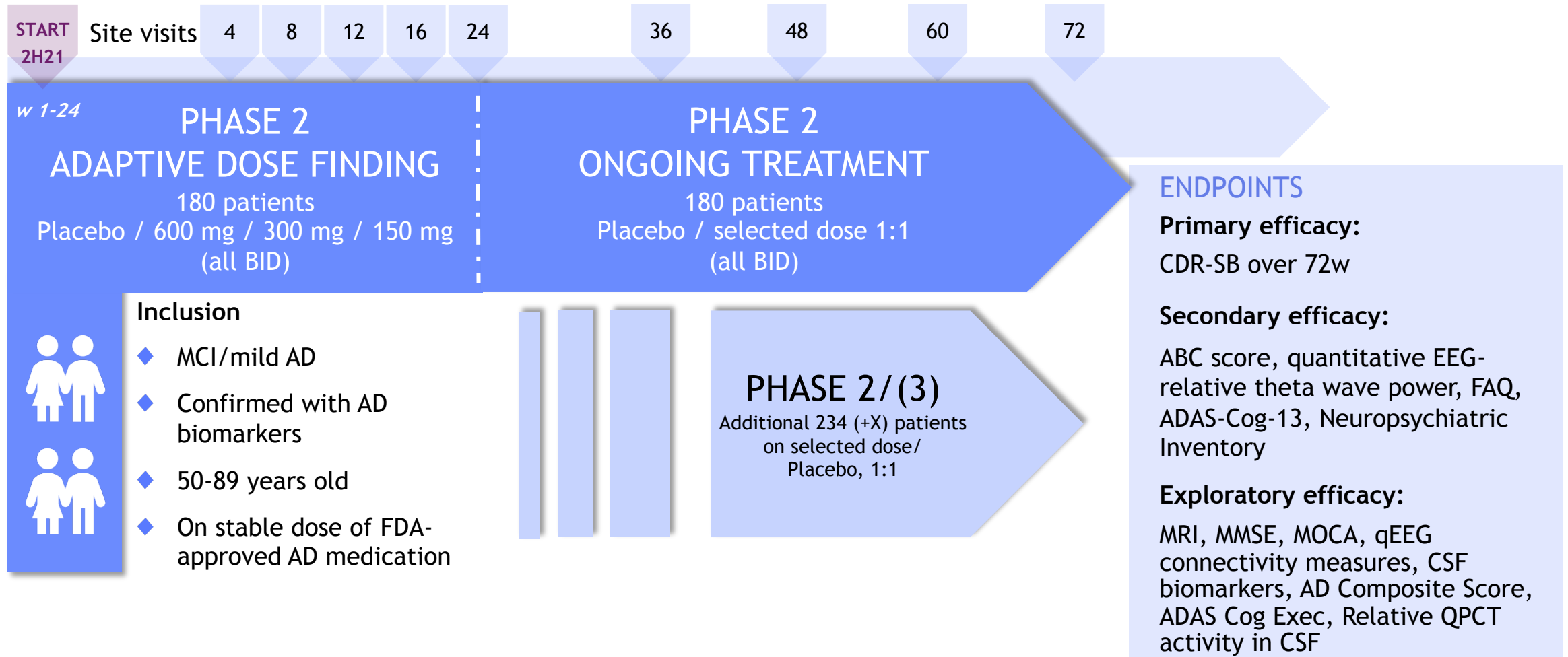


~93% with 800 mg BID
~87% with 600 mg BID
70% with 300 mg BID
>50% with 150 mg BID







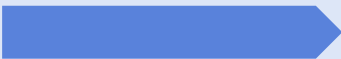



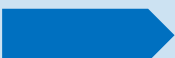
maintained level of
target inhibition

Translational models show robust activity starting at
50% target occupancy

VIVA-MIND Recruiting into Cohort B and Has Option to Transform into Confirmatory Phase 3



Vivoryon's Pipeline Focused on Alzheimer's Disease with Potential Follow-on Programs

Program	Approach	Discovery	Preclinical	Phase 1	Phase 2a	Phase 2b	Phase 3	Status
 AD	Varoglutamstat (PQ912)	SMI QPCT/L	 <i>VIVIAD - Ph2b in EU</i>					Fully recruited; Final readout Q1/2024
	Varoglutamstat (PQ912)	SMI QPCT/L	 <i>VIVA-MIND - Ph2a/b in US</i>					Ph 2a ongoing; expanded treatment duration of 72 weeks
	Varoglutamstat (SIM0408, PQ912)	SMI QPCT/L	 <i>CTA approval in China</i>					Partnered with Simcere in Greater China; Clinical development in preparation
	PBD-C06	mAb N3pE amyloid						Pre-IND; Partnered with Simcere in Greater China
 Cancer		SMI QPCTL						Pre-IND
 NASH		SMI QPCTL						Pre-IND
 Fibrosis		SMI Meprin						Pre-IND



Multiple Value-Generating Catalysts and Events Ahead

Upcoming Events

- ◆ R&D Day with KOLs¹ in Q4/2023 on varoglutamstat, scientific approach and study design
- ◆ Multiple investor interactions throughout Q4/2023 to update on progress

Clinical Progress

- ◆ VIVA-MIND U.S. Phase 2a/b status update Q4/2023
- ◆ VIVIAD European Phase 2b final readout Q1/2024

Regulatory Strategy

- ◆ End of Phase 2 meeting with FDA

Future Opportunities

- ◆ Potential to develop varoglutamstat in combination with mAbs in AD (own and external assets)
- ◆ Follow-up programs into the clinic beyond AD
- ◆ Development opportunities in Greater China with Simcere



Varoglutamstat Positioned for Continued Value Generation



Differentiated Phase 2 Asset with Unique Potential in AD

- ◆ N3pE-Abeta is a validated target in AD; reducing pE concentration has shown to reduce progression of cognitive decline in early AD^{1,2}
- ◆ Glutaminylcyclase QPCT is required for N3pE-Abeta production
- ◆ Inhibition of QPCT shown to stop N3pE-Abeta production and improve cognition in Phase 2a study of varoglutamstat (SAPHIR)
- ◆ VIVIAD results impact R&D strategy in early AD by answering key questions:
 - ◆ Are small molecules with additional intracellular effects more effective than antibodies?
 - ◆ Can targeting N3pE-Abeta show effect sizes > 30% ?





Vivoryon Therapeutics N.V.

Halle (Saale)
Weinbergweg 22
06120 Halle (Saale)
Germany

Munich
Franz-Josef-Delonge-Str. 5
81249 München
Germany

info@vivoryon.com
+49 (0)345 555 99 00

www.vivoryon.com