

# WITH IQVIA, NEW SOLUTIONS FOR ADVANCING HOW WE UNDERSTAND AND TREAT ALZHEIMER'S DISEASE ARE WITHIN REACH

At IQVIA<sup>TM</sup>, we have a vision:



Where every healthcare decision is based on evidence.



Where human science comes together with data science to improve the health of people, not just when they are patients.



Where new and creative solutions aren't just possible - they are expected.

We must think differently about how we harness innovations in human data science and artificial intelligence to be faster and more precise in how we identify patients - possibly before they even are recognized as patients in the first place, helping to predict the onset of full blown disease.

With IQVIA, you can tap into unmatched domain expertise together with advanced analytics to optimize drug development, identify sites, and identify, recruit and engage patients in new, innovative ways.



## SPOTLIGHT ON ALZHEIMER'S DISEASE

#### THE AD BURDEN<sup>1</sup>

Alzheimer's disease (AD) is the most common form of dementia, affecting over 40M people worldwide. Currently, no treatment for AD is able to stop or even slow down the disease process, so there is an urgent need to accelerate AD drug development

- Fastest accelerating disability burden globally
- Most costly in U.S. direct
- The cost of AD globally is \$800B<sup>2</sup>

#### **Direct Health Expenditures (Billions)**



**Heart Disease** 102B

Population of AD Patients (Millions)

Cancer

AD 109B

77B

## THE CURRENT CHALLENGES IN CLINICAL TRIALS FOR AD<sup>2</sup> (



#### RECRUITMENT

High screen failure rate + competing trials at many of the same global sites

- 80% screen failure rates in Prodromal AD
- 90% screen failure rates in Pre-Clinical AD

#### **ECONOMIC CONSEQUENCES OF SCREEN FAILURES**

\$29,100/Prodromal Patient \$33,600/Pre-Clinical Patient

#### COMPETITION

For disease modification trials is very high due to competing trials + geographical access to the 3 amyloid PET ligands

required for pAD and preclinical



#### PROTOCOL DESIGN

Designs must carefully consider

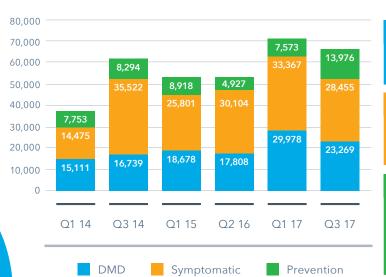
- Burden for participants & sites
- Process for amyloid disclosure
- Level of staffing needed to handle high screening throughout



#### **RESOURCES**

Major resourcing requirements in terms of equipment and staff

#### SHIFTING TREND IN AD TRIAL LANDSCAPE



#### **DISEASE MODIFYING DRUGS (DMD)**

- Modify the disease progress
- Do not treat AD symptoms

#### SYMPTOMATIC TREATMENTS

- Improve symptoms, especially memory and cognition
- Have a fast acting, but short-lived effect

#### PREVENTION

- Use of DMDs to treat those who are asymptomatic but at high risk of developing AD
- Delay onset of AD by preventing/delaying accumulation of amyloid in the brain

### **OVERVIEW OF CLINICAL TRIAL LANDSCAPE**

In 2016 it was estimated that nearly 7M registry participants were needed to achieve 4.5K randomized subjects.

264 Trials, Close to 66,000 Target Patient Enrollment

Phase # of Trials Target Accrual

**PHASE I** 

PHASE I/II

PHASE II 14.852

PHASE II/III

**PHASE IV** 54 7,071

## **INNOVATIVE APPROACHES TO IMPROVE AD CLINICAL TRIALS**



Develop predictive algorithms to identify undiagnosed MCI patients (that go on to develop AD) through Dx and EMR data



**Broaden AD** site base evidence-based by increasing the to determine number of sites ready for potential sites



Use

metrics

Help develop trial-ready



Develop new diagnostics/ screening tools blood test

- AD subjects and for more advanced subjects





- 1. P.J. Ousset, J. Cummings, J. Delrieu, V. Legrand, N. Prins, B. Winblad, J. Touchon, M.W. Weiner, B. Vellas . IS ALZHEIMER'S DISEASE DRUG DEVELOPMENT BROKEN? WHAT MUST BE IMPROVED. JPAD - Volume 1, Number 1, 2014

99.6%

Failure rate

of 244 agents tested for

efficacy in slowing AD

progression (2002<u>-2013)</u>

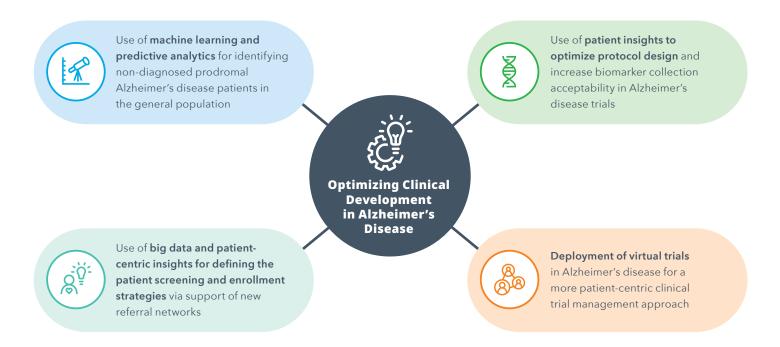
2. Global Alzheimer's Platform Foundation. Gap Foundation Overview, April 2016

## AN EXPLOSION IN CLINICAL AND REAL-WORLD DATA. ADVANCES IN DATA SCIENCE AND TECHNOLOGY.

Together, these forces can help you advance your approach to Alzheimer's disease clinical trials. And help bring new innovative therapies to patients faster.

As the leader in human data science, IQVIA is at the forefront of integrating human science expertise with advances in analytics and technology to help you make better decisions and enable better patient outcomes.

IQVIA helps optimize the clinical development process in Alzheimer's disease by specifically focusing on early stages of the disease. This innovative approach includes:



#### **CONTACT US TODAY TO START A CONVERSATION**

Learn how the IQVIA CORE™ is helping solve challenges and deliver more predictable results in Alzheimer's trials. Contact **clinical@iqvia.com** to speak with one of our experts.

