



Optina
DIAGNOSTICS

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CEO



TRANSFORMING THE DIAGNOSTIC WORLD
by seeing the unseen

September 2022

TRANSFORMS THE DIAGNOSTIC (Dx) WORLD FOR SILENT & UNDER DETECTED DISEASES



Retinal Deep Phenotyping™ Platform

SERVING THE 50+ AGE POPULATION

- ✓ *Chronic diseases are detected too late or after a dramatic event*
- ✓ *Current care is failing to solve the problem with chronic conditions*
 - *The burden of illness Dementia 7.1 Trillion*
 - *Cardiovascular disease 1.1 Trillion*

FIRST LINE NON-INVASIVE DIAGNOSIS

Supporting physicians when it is still time to act –

WITH THE FIRST INDICATION IN
EARLY DETECTION IN AD

UNPRECEDENTED, PRECISE Dx INFORMATION

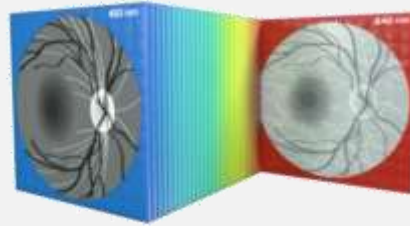
Why Do We Use the Eye?



Because it is highly vascularized, contains nervous tissues and is the only direct access for imaging

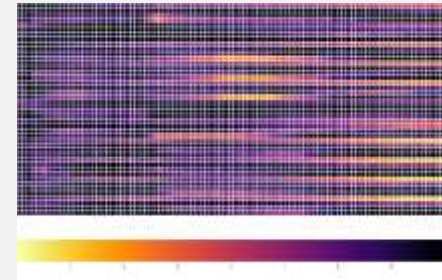


Retinal Deep Phenotyping™ Platform



DATA RICH DIGITAL INFO
Reveals Subtle Phenotypic Changes

**> 1,000 AI
FEATURES DEVELOPED**
Indicative of Diseases



*RDP™ Heat Map

* RDP™ : Retinal Deep Phenotyping™ Heat-map

RETINAL DEEP PHENOTYPING™ PROPRIETARY PLATFORM (RDP™)

HYPERSPPECTRAL CAMERA

1

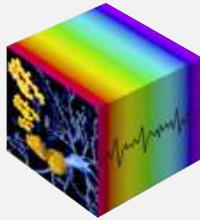


Novel Dx Information



AI- ALGORITHM

2



Data Rich Images
Structural, Molecular
& Functional insights

Digital, Imaging Biomarkers
Proprietary



DATABASE

3



Database (HIPAA)
Patient Info
Gathering and Care
Path Support



NEW Dx Paradigm

1st INDICATIONS
Alzheimer Disease
Dementia
Biomarkers

OWN DATA CREATION



OWN DATA ANALYSIS



OWN DATABASE



WINNER TECHNOLOGY INNOVATION LEADERSHIP AWARD

✓ IMAGING PLATFORM AND AI

- Precise and accurate phenotyping to detect complex diseases
 - Quantitative approach across test sites
 - Industry largest prospective cohort and install base

✓ LEADERSHIP POSITION

- **Alzheimer's disease**
- Atherosclerosis
- Age-related macular degeneration (AMD)

✓ PARTNERSHIPS with leading pharma organizations

CLINICAL STAGE COMPANY ENTERING COMMERCIAL DEMONSTRATION



Most Advanced Retinal Scan

- ✓ Only hyperspectral camera FDA cleared
- ✓ Multi-site proof of early Dx in Alzheimer
- ✓ Largest investment from ADDF in eye biomarkers



Robust Regulatory Path Accelerating Time to Market

- ✓ Camera 510K cleared
- ✓ Breakthrough Device designation
- ✓ Data development plan with FDA
- ✓ DeNovo with clinical data recruiting



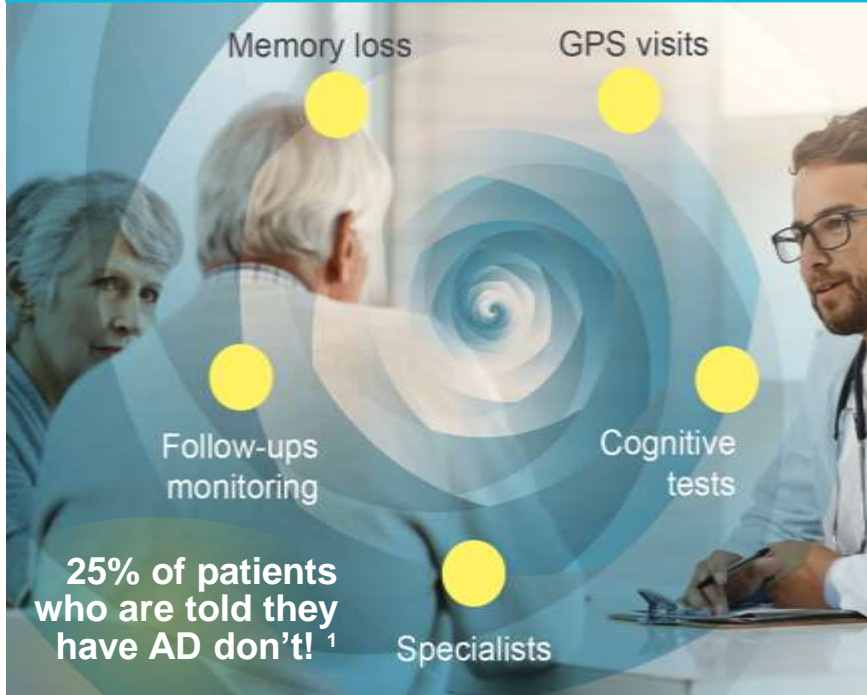
Well Positioned To Rapidly Be Included in Dx & Rx Guidelines

- ✓ In clinical development with leading medical centers and clinicians
- ✓ New Rx will require a biomarker base test to be prescribed

FIRST INDICATION ALZHEIMER DISEASE UNMEET MEDICAL NEED

– MILLIONS OF PEOPLE WITH NO & WRONG DX

Currently Dx Takes > 2.7 Years

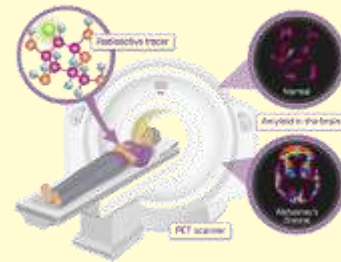


<https://www.mdedge.com/clinicalneurologynews/article/178187/alzheimers->

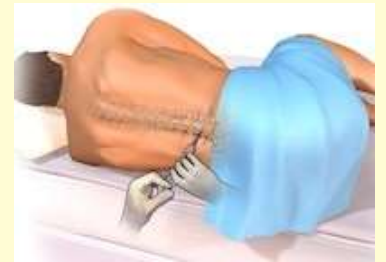
¹cognition/ideas-study-meets-first-aim-changing

Low access - Academic β -amyloid Status Required for Dx

PET-scan



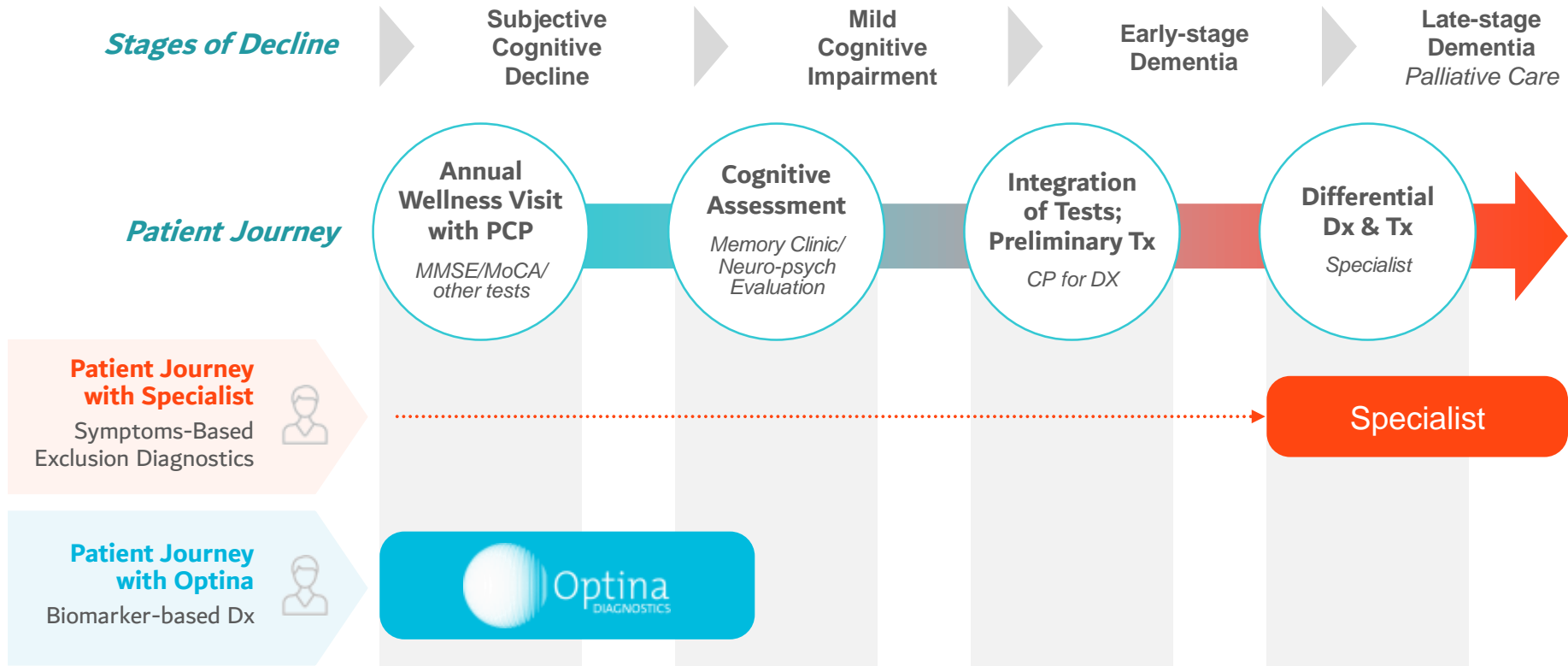
CSF, Research



INVASIVE TESTS

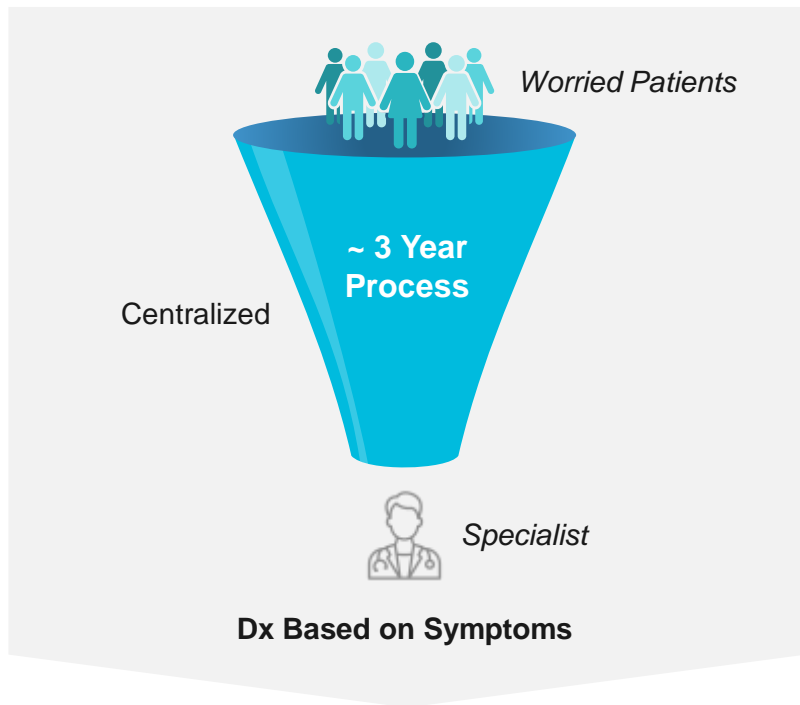
- Expensive and not easily accessible
- Not reimbursed
- Not suitable, not sustainable for early screening

OPTINA – TO BRING ALZHEIMER Dx & Rx TO PCP WITH EARLY STAGE DIAGNOSTIC



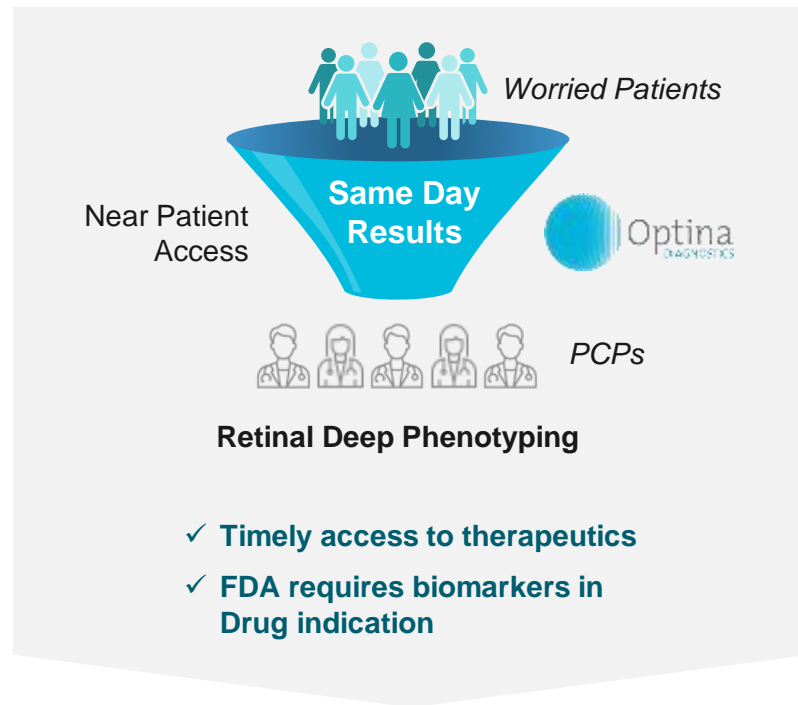
10-15% POPULATION OVER 55 COMPLAINING OF MEMORY LOSS WILL SEEK A DIAGNOSTIC

CURRENT: Late-stage Diagnostics



60-70% ACCURACY

FUTURE: Optina Early-stage Diagnostics



80-90% ACCURACY

KEY PROGRAMS STATUS – HEALTH CHECK ESSENTIAL FOR AGE 50+



18 Clinical Sites
5,000 Subjects



BRAIN HEALTH (+2000 Subject)

1ST INDICATION – CEREBRAL AMYLOID STATUS
Cognition & neurodegeneration test in development



VASCULAR HEALTH

ATHEROSCLEROSIS – STENOSIS



EYE HEALTH

AGED RELATED MACULAR DEGENERATION



FUTURE OUTLOOK – DIABETES, NASH, etc.

Retinal Dx
Market Size

\$10bn +

\$7bn +

\$4bn +

Supports Optina's Innovation Pipeline

Sites For Initial Market Launch (Approved Camera)



HARVARD
UNIVERSITY



PREPARING COMMERCIAL PROOF SUPPORTING HIGH EXIT VALUE

Market Need Driving +100,000 Diagnostic Locations of High-value Tests

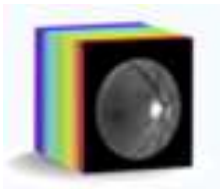
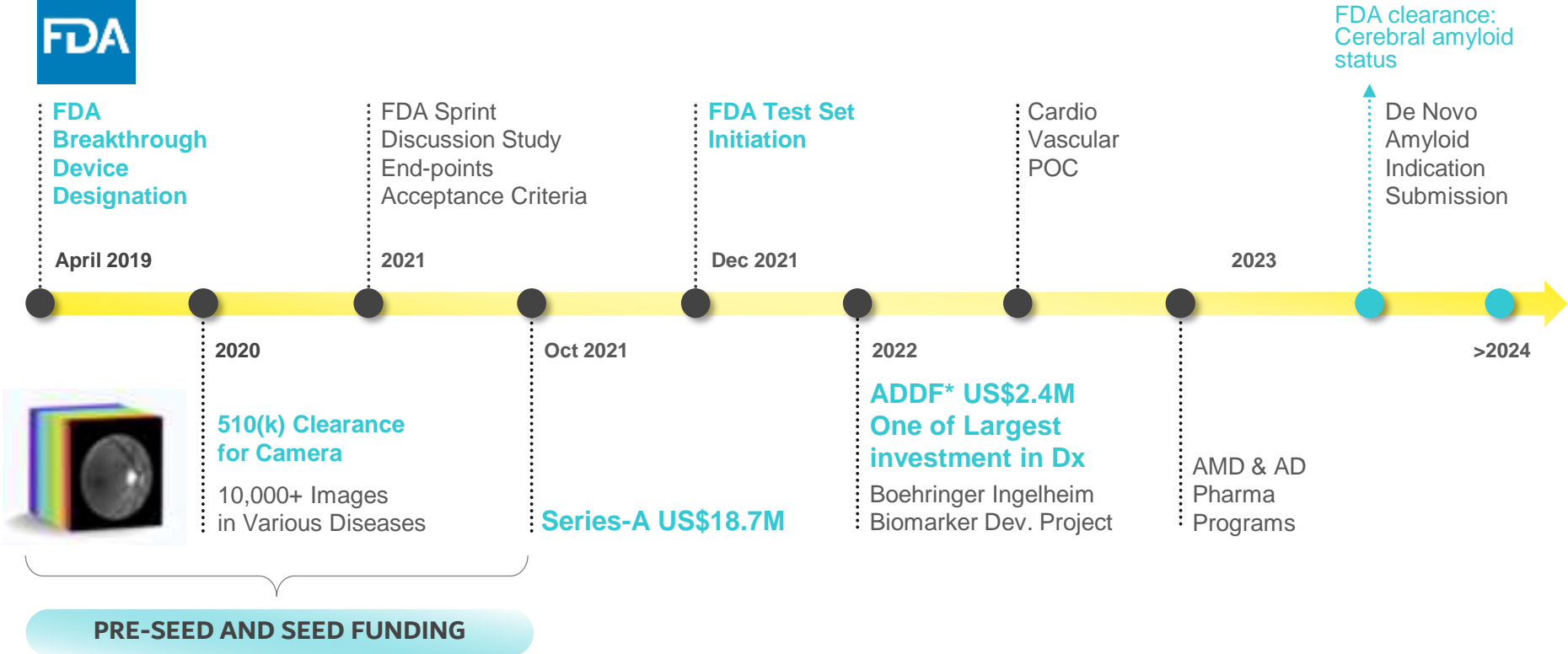
Hardware as a Service (HaaS)

- Starts end of 2024
- Retail price for cognitively impaired patients: \$400-2000 PER TEST
- Revenue sharing with business partners (max 50%)
 - Converting 20 clinical sites into revenue-generating sites
 - Revenue per camera at 8 patients per day = \$800k/year @ \$400 / test
- **Expect preliminary reimbursement** within 24 months of approval
 - Code for high price Dx for amyloid – high value Dx

Project-based with Pharma

- Supporting pipeline of indications
- Generating revenues

ACHIEVEMENTS and OUTLOOK



510(k) Clearance for Camera
10,000+ Images in Various Diseases

Series-A US\$18.7M

ADD* US\$2.4M
One of Largest investment in Dx

Boehringer Ingelheim
Biomarker Dev. Project

AMD & AD
Pharma Programs

PRE-SEED AND SEED FUNDING

● Completed ● Planned

*Alzheimer's Drug Discovery Foundation

KEY EXPERTISE & STRUCTURE – INVOLVED, CONTRIBUTING, LONG-LASTING BOARD

Claudia Chevrefils



PhD, CIO

Jean-Philippe Sylvestre



PhD, CTO

Chantal Miklosi



MBA, CFO

David Lapointe



CEO

George Mallin



MBA, VP Ops

Shannon Lastname



Title

MANAGEMENT TEAM

Strong USA experience with scientific leadership from leading institutions
9 Bachelor, 12 Master, 6 PhD

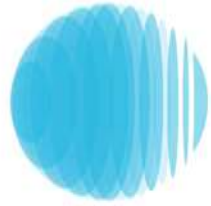


STRONG CASH POSITION, ESTABLISHING SERIES-B PILLARS / EXIT

- ✓ Current 1st indication product to market already financed
- Seeking US\$5M Bridge Round to accelerate programs and maximize Series-B value
 - Advance commercial demonstration
 - Augment pharma collaborations infrastructure capacity
 - Continue expansion of pipeline in chronic diseases



**We are transforming the Diagnostic World by Seeing the Unseen –
Join Us!**



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THANK YOU