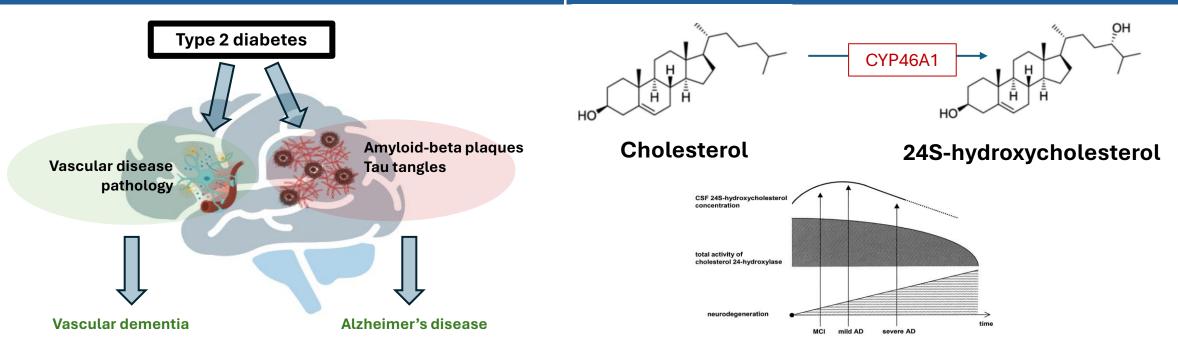
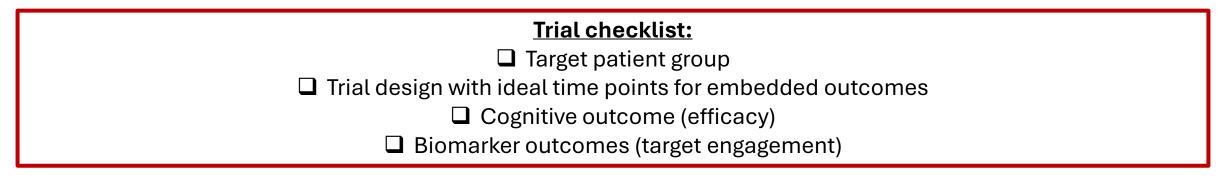
Patients with T2DM have AD risk, and are in need of tx

Targeting a new pathway: Brain cholesterol metabolism



NEED TO OPTIMIZE CLINICAL TRIALS TO REDUCE SOURCE OF HETEROGENEITY



Implemented Frameworks:

FDA-BEST:

-context of use of biomarkers

ATNIVS-validated AD biomarkers

STRIVE-2
-validated vascular imaging markers

PROPOSED TRIAL DESIGN:

Optimizing both clinical efficacy and biological efficacy

Trial checklist:

- Target patient group
- ✓ Trial design with ideal time points for embedded outcomes
- ✓ Cognitive outcome (efficacy)
- Biomarker outcomes (target engagement)

Phase 2 study

Intervention: CYP46A1 modulator vs placebo over 24 wks

Target population: T2DM with VCI-ND

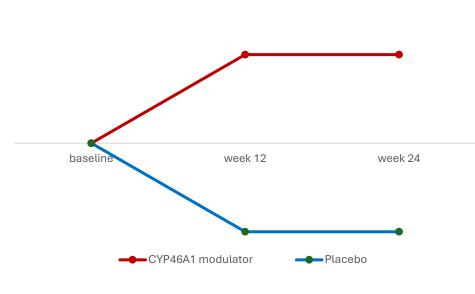
Primary outcome:

Efficacy: Cognition (NINDS-CSN) – demonstrated

associations with VCI-ND

Secondary outcome:

Biological efficacy: AD, vascular, inflammation



		Baseline	Week 12	Week 24
Clinical outcome				
Outcome	Cognition	✓	✓	✓
Biomarkers of interest				
Biomarker of efficacy	24S-hydroxycholesterol	✓	√	✓
ATNIVS	Amyloid, Tau, Neurodegeneration, Inflammation, Vascular, Synuclein	✓	✓	√
STRIVE-2	Vascular neuroimaging (eg: White matter hyperintensities)	√	√	√