

AD Centers CSF biomarker survey

- Responses from 15 AD Centers interested in CSF sharing for central analysis of A-beta42, tau and P-tau
- CSF processing methods:
 - about 50% of ADC's use aspiration, 50% gravity collection
 - About 40% of ADC's centrifuge the CSF samples
 - All use polypropylene tubes and store in polypropylene microtubes.
 - At least 8 different brands of microtubes are used.
- Potential to share over 3,000 samples from subjects with UDS data + over 1,000 additional samples from well-characterized subjects for a central analysis project.

A path forward

- Automated assays for A-beta42, tau and P-tau have been developed by Roche (Elecsys) and by Fujirebio.
- ADNI CSF samples have been run using Elecsys assays, and other large scale projects in the US and Europe are also doing so.
- Proposal
 - Each AD Center with stored CSF will provide 1 CSF aliquot for a central lab to analyze.
 - A prospective CSF collection will be done to allow comparisons between each Center's pre-analytical method vs a common method.
 - Participating AD Centers can form a Consortium, for which this initial effort can serve as a model for future and more extensive fluid biomarker analysis efforts at scale.