Laboratory Testing for Alzheimer's Disease

As new therapeutics for Alzheimer's disease (AD) are approved, laboratory testing can help identify candidates for treatment.

Ensure your patients receive the best possible care and support by incorporating ARUP's full suite of Alzheimer's disease tests into your diagnostic workup.

3019017 Phospho-Tau 217, Plasma

Blood-based biomarkers are a less invasive and cost-effective testing option for the diagnosis of AD. Current research supports phosphorylated tau 217 (pTau 217) as a highly accurate and specific marker for the detection of amyloid pathology.

- Specimens from the Eli Lilly and Company I5T-MC-AACI trial (TRAILBLAZER-ALZ 2) were used to validate this assay, and it was shown to have high correlation with amyloid pathology as measured by positron emission tomography (PET) imaging.
- The Simoa® assay kit uses pTau 217 antibody technology licensed from Eli Lilly and Company and is performed on Quanterix's SP-X® platform.

3017653 Alzheimer's Disease Markers, CSF

This test uses FDA-approved kits and instrumentation. Its performance is backed by significant data, and test results have been demonstrated to closely correlate with amyloid PET scan results.

Test results provide two ratios: Phospho-Tau(181)/Abeta42 Ratio and Total-Tau/Abeta42 Ratio, which
offers better concordance with amyloid PET imaging when compared to Abeta42, pTau 181, and tTau
individually.

2013341 Apolipoprotein E (APOE) Genotyping, Alzheimer Disease Risk

Apolipoprotein E (APOE) testing is recommended if treatment with monoclonal antibodies is being considered because of the risk of amyloid-related imaging abnormalities (ARIAs) in individuals who are homozygous for the APOE e4 variant.

• APOE testing is also useful in Alzheimer's disease risk assessment and may be useful for genetic counseling purposes.

