

The Lake laboratory at ASU is developing rapid diagnostic tests to address a clinical need for improved diagnostics. Diagnosis of Valley Fever is often delayed weeks or even months, prolonging patient and healthcare provider frustration, leading to inappropriate treatment with antibiotics and delaying potential anti-fungal treatment. Our rapid test detects antibodies to the Valley Fever fungus in 10 minutes using either serum, plasma or a 10 microliter drop of blood. Our test is qualitative and quantitative and can be deployed in primary care settings and emergency departments.

In collaboration with Dr. Thomas Grys at Mayo Clinic Arizona, we are also developing a rapid antigen test. A positive antigen test would provide a definitive diagnosis and decrease inappropriate treatment for patients with Valley Fever.