

Diabetes drug shows promise for safely treating, detecting Alzheimer's disease

March 8 2017

As the number of patients with Alzheimer's disease (AD) rapidly increases, new treatments as well as blood tests that are simple and can be easily performed in a doctor's office to diagnose are urgently needed.

A new study has found treatment with the diabetes drug amylin (or pramlintide) safely improves learning and memory function in AD patients and reduces the AD pathology in their brains. The findings, which appear in the *Journal Translational Research and Clinical Interventions*, also may lead to the development of a blood test for AD.

Currently, lumbar punctures to detect biomarkers in [cerebrospinal fluid](#) and [positron emission tomography](#) imaging scans are used to diagnose AD. Unfortunately many patients are fearful of these procedures and the high cost is prohibitive.

"A single injection of pramlintide into our patients was well tolerated and reduced the amyloid burden as well as lowered the concentrations of amyloid- β peptides, a major component of AD in the brain," explained corresponding author Wendy Qiu, MD, PhD, associate professor of psychiatry and pharmacology and experimental therapeutics at Boston University School of Medicine.

"Our study suggests a potential role for the creation of a [blood](#) test that relies on pramlintide, which could cross the [blood-brain barrier](#) and help to translocate the biomarkers related to AD pathology including amyloid- β peptides and neuroinflammation, from the brain into the bloodstream

where they can be detected," added Qiu.

Provided by Boston University Medical Center

Citation: Diabetes drug shows promise for safely treating, detecting Alzheimer's disease (2017, March 8) retrieved 20 March 2024 from <https://medicalxpress.com/news/2017-03-diabetes-drug-safely-alzheimer-disease.html>

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