



## Combining Brain and Heart Data for Better Research

Heart disease remains the No. 1 cause of death worldwide, but diseases of the brain, specifically Alzheimer's disease and dementia, are significantly rising. Those conditions are often associated with the same risk factors as heart disease, including hypertension, diabetes, obesity and tobacco use. Despite the clear linkages between cardiovascular health and dementia, there is still much the medical and science communities don't understand that could help us ultimately diagnose and treat dementia more effectively, and possibly even cure or prevent it entirely.

The Alzheimer's Disease Data Initiative and the American Heart Association have teamed up to make it easier for scientists to study Alzheimer's and heart disease. They've linked their two research tools—Alzheimer's Disease Workbench (ADWB) and the Precision Medicine Platform (PMP)—so researchers have a one-stop-shop to access and work with both Alzheimer's and heart-related data.

### Current Features include:

- Single sign-on option, so that registered users of either portal can more easily request and study data
- Ability to request data from the PMP, including modules from the American Heart Association's Get With The Guidelines quality improvement registry
- Secure HIPAA compliant and FedRAMP certified workspace environments and access to tools including Jupyter Notebook, Tensor Flow, R studio

### The future of a unified brain-heart data science approach:

This collaboration aims to improve how we diagnose and treat individuals. It's about breaking down tech barriers so smart people can find smarter solutions. Be on the lookout for future data challenge and grant opportunities.

#### About The American Heart Association

The American Heart Association is devoted to saving people from heart diseases and stroke - two of the leading causes of death in the world. We team with millions of volunteers to fund innovative research, fight for stronger public health policies, and provide lifesaving tools and information to prevent and treat these diseases.

### How to Access:

- Create a username through either the ADWB or the PMP
- Browse and request access to available datasets
- Get integrated access to diverse datasets, including more than 20 years of data and 13 million patient records from American Heart Association's Get With The Guidelines registry
- Access powerful cloud processing from any computer
- Safely share workspaces with collaborators across the globe
- Customize and code based on the needs of your project.
- Improve your research with machine learning systems that learn and improve automatically
- Securely store and analyze data

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