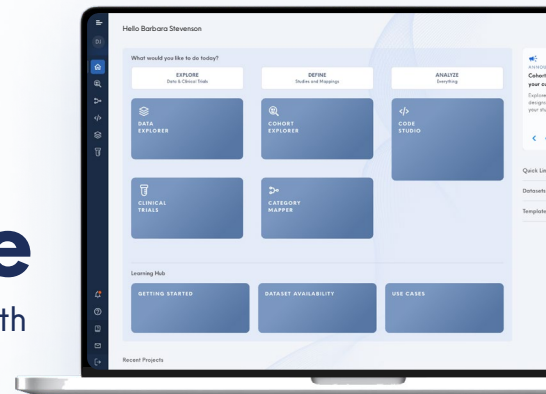




The NeuroBlu Database

Redefining evidence generation for behavioral and mental health



THE CHALLENGE

There is a debilitating lack of evidence and progress in mental and behavioral health. Heterogeneity in disease presentation, in addition to a lack of consensus about how to define patient improvement and which tools to use to measure improvement, has resulted in a lack of standardization unseen in other areas of health.

THE SOLUTION

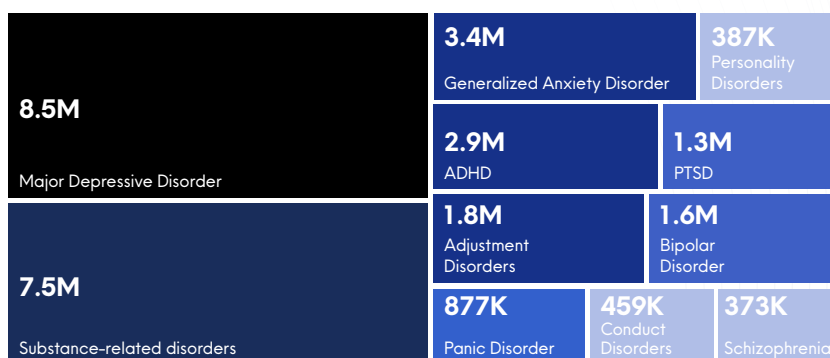
To address this challenge, we have created NeuroBlu, a best-in-class analytics tool to generate clinical insights from the most robust real-world database for behavioral health. With over 4 million patients, the NeuroBlu Database is the largest, built-for-purpose source of real-world data designed to accelerate behavioral health research.

30M+ Patients

1.4B+ Encounters

1.3B+ Recent encounters
(93% of encounters occurred within last 5+ years)

DIAGNOSIS BREAKDOWN



Structured data fields in NeuroBlu include behavioral health diagnoses, patient demographics, prescription data, hospitalization, and procedures.



NeuroBlu also includes insights from unstructured data in the form of clinical notes. Our novel Natural Language Processing approach, NeuroBlu NLP, identifies and transforms unstructured data into structured and analyzable data not otherwise accessible in EHR or claims data. Especially formulated to address the complexity of behavioral health, NeuroBlu NLP models are robust, replicable, and scalable – these models are applicable within disorder groups and across health systems.

NeuroBlu NLP – The Impact

- 1 Increased data accessibility**
NeuroBlu NLP captures symptomatology data not typically available in structured fields, providing a more complete picture of a patient's profile.
- 2 Enhanced data density**
Clinically meaningful information is available for more patient visits over time, enabling a broader and more detailed understanding of individual patient journeys.
- 3 Larger cohort sizes**
Studies with highly specific inclusion and exclusion criteria become more feasible with access to patients with detailed clinical profiles.

FOR LIFE SCIENCES

Address key research questions to drive clinical and commercial success in life sciences:

Research and Development

Improve probability of technical success and reduce cycle times

Medical Affairs

Investigate clinical context driving prescription behaviors and improve clinical guidelines

Market Access and HEOR

Evaluate real-world comparative outcomes and enable value-based care

FOR ACADEMIA

Enable groundbreaking research and answer novel questions in pre-clinical research, diagnostics, health economics, and health services research. Holmusk works with academia globally to conduct and publish research projects in behavioral health, chronic disease, and analytic methods.

Interested in learning more? [Contact us](#) to schedule a demo.

Studies incorporating real-world data are more inclusive of a broader range of patients, not just those who meet stringent clinical trial criteria and participate in studies. Integrating insights from real-world data with clinical trial findings is critical because only real-world data captures what happens in routine clinical settings.

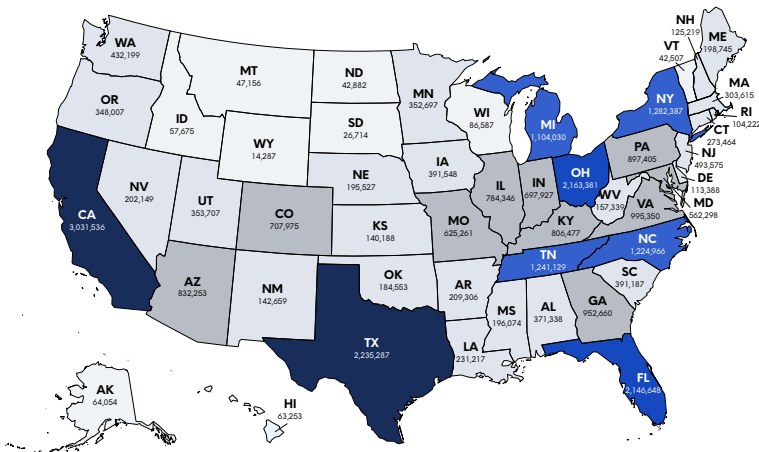
The data density found in NeuroBlu is unparalleled. In collaboration with our many health system partners, Holmusk has optimized the amount of structured data for each patient, including rich prescription and treatment history and critical outcome measures across disorders in behavioral health. The numbers speak for themselves.

UNRIVALED DENSITY IN BEHAVIORAL HEALTH

Robust US representation and diversity of care settings

NeuroBlu encompasses patients treated in multiple care settings for behavioral health – inpatient, outpatient, and primary care. Site types include a majority of nonprofit health systems but also include community mental health centers (CMHCs) and academic medical centers (AMCs), as well as substance use treatment centers and private facilities.

NeuroBlu patient coverage across the US



NeuroBlu represents patients receiving treatment in some of the **most prominent, evidence-based behavioral health centers** in the United States, with **more than 2 million patients represented** in Florida, Ohio, and Texas and **more than 3 million** in California. The US demographic and geographic representativeness **will continue to increase** as data density and volume increase with monthly updates to NeuroBlu.

ROBUST, LONGITUDINAL, AND RECENT REAL-WORLD INSIGHTS

Patients by encounter longitudinality

With over 1.4 billion encounters, 93% are recent (within the last five years). In addition, NeuroBlu covers over 20 years of longitudinal data.

757K+
patients have 10+
years of encounters



VALIDATED IN PEER-REVIEWED PUBLICATIONS

NeuroBlu data have been used to conduct comparative effectiveness studies, health economics and outcomes research, and epidemiologic studies as well as to develop external comparator arms and machine learning models. Studies using NeuroBlu data have been published in over a dozen peer-reviewed journals, including Lancet Psychiatry, Therapeutic Advances in Psychopharmacology, Schizophrenia Research, and Current Medical Research and Opinion. To see our complete list of publications, visit our [publications page](#).

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Comprehensive studies analyzing relationships between behavioral health treatments and outcomes, patient journeys, and granular cohort segmentation are now possible with rich real-world data in NeuroBlu. Collaborating with our life sciences, academic, and data partners, we generate real-world insights to help improve patient care, bring more effective treatments to market, and drive better patient outcomes in behavioral health. NeuroBlu is a transformational analytics tool to explore the largest, increasingly rich, representative, and diverse real-world dataset for behavioral health.

Interested in exploring the leading and largest robust real-world database for behavioral health? **Contact us** to schedule a demo.

Interested in learning more? [Contact us](#) to schedule a demo.