Optum

Improve your Alzheimer's data set

Enhance your view of the patient journey with enriched clinical data

Study key concepts of interest for your therapeutic area of focus

Developing a deep understanding of your patient population is difficult. Beyond office visits, labs and prescription records, you may also want to know what patient symptoms looked like before and after diagnosis, how they react to treatments and their quality of life.

Often, this information isn't readily available in structured clinical and claims data. And making assumptions based on existing pre-structured data fields isn't good enough to generate high-quality, real-world evidence that satisfies stakeholder demands. That's why Optum® offers research-ready, disease area-specific data extracted from clinical notes and radiology reports.

These pre-packaged, enriched cohorts build upon existing data by improving the breadth and depth of key data elements, enabling even more powerful research use cases.

Deepen your research to reach new milestones and help more patients

With deidentified, connected data across specialists and sites of care, you can explore the patient journey both before and after an Alzheimer's diagnosis. Because patients with Alzheimer's were likely observed by another provider before they saw a neurologist, those encounters make up an important part of the patient story that you don't want to miss. With curated concepts of interest at your fingertips, you can:

- Understand patient pathways, including pre-diagnosis scans and cognitive test scores
- Learn more about Alzheimer's disease progression to support informed long-term decisions
- Predict diagnoses based on suspected cases as indicated by patient age, clinician comments and presenting symptoms

Conduct research with robust data



Cognitive test scores
- Mini-Mental State Exam (MMSE)
- Montral Cognitive Assessment (MoCA)



Biomarkers
- Tau proteins
- Amyloid beta peptides
- Apolipoprotein E



Drug rationale
- aducanumab/Aduhelm®
- lecanemab/Leqembi®
- donepezil/Aricept®



Disease and symptom progression
- Impaired cognition
- Agitation
- Apraxia



Imaging report findings
- Brain amyloid plaques
- Brain volume loss

Work with a diverse Alzheimer's cohort

Demographic segment	% of total enriched Alzheimer's data set
Black or African American	13%
Female	56%
Age 75+	55%

Generating meaningful structured data from millions of clinician notes

Our process helps ensures that the most targeted, relevant clinical and research information is included in your enriched data set. With our clinical subject matter experts and the help of proprietary natural language processing (NLP) technology, Optum defines, labels, extracts and packages high-value data elements from unstructured clinical notes to enrich our existing electronic health record (EHR) data.

- **Develop detailed data requirements:** define cohorts, concepts, relations and targeted values based on clinical and research expertise
- **Hybrid data extraction process:** apply NLP models in a compliant, responsible manner and manual abstraction of notes data by clinical professionals
- **Transform, structure and create highly usable data tables:** seamlessly integrate enriched output with the other data tables in the deidentified clinical data set

Implementing quality assurance and quality control mechanisms end-to-end helps meet compliance requirements, so you get only the data that meet the highest of standards.

Get the richness of clinical notes data without the in-house legwork

- Reduce time to analysis with data cleaned and packaged for easy use
- Bolster number of available data points for more robust, quality research
- Enhance the quality of insights and research conclusions with previously unexplored data fields

Tap into our expertise

Your researchers aren't alone. Our data scientists and analytics staff are here to help you navigate our enriched clinical data and get the most out of your investment.

For additional support, partner with our dedicated researchers to help your organization answer questions in your therapeutic area of focus and uncover insights specific to a certain point in the product lifecycle.

Value and evidence solutions, including health economics and outcomes research (HEOR) and value-based contracting and services

Epidemiology and post-approval safety studies

Commercial analytics and market access

From data to insight to action, we catalyze innovation and commercial impact to help you connect the dots.

Have questions about enriched clinical data? Visit us at **optum.com/life-sciences**

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