# Alzheimer's Disease example



#### **Hierarchical stratifications**

- Active
- Historical
- Suspected
- At risk



## **High scoring features**

- Cholinomimetics ACHE Inhibitors
- Age-related cognitive decline
- · Disorientation, unspecified
- NMDA Receptor Antagonists



### **Advanced analytics**

- Target: ICD10: I27\*, I50\*, I0981
- Threshold: 95th percentile
- · Cool-off: 0 months

# Sample stratifications based on Alzheimer's Disease

- Active Alzheimer's Disease
  Diagnosis in last 12 months
- Historical Alzheimer's Disease
  No diagnosis in last 12 months, but diagnosis in previous 36 months
- Suspected Alzheimer's Disease
  No diagnosis but over the age of 40 with MCI, prescriptions for antidementia agents
- At risk of Alzheimer's Disease

  Not currently diagnosed or suspected, but likely to be diagnosed shortly



# Clinical rules engine

Library of **200+ rules to identify members** that have no documented diagnosis for a condition, but are suspected of having the condition based on their medical history



Set of clinical rules made, approved and curated by medical professionals



Multiple data sources provide longitudinal insights into entire episodes of care (Claims, Rx, Lab Results, EMR Data)



Continuously updated to expand the rules library and incorporate new rule criteria



Run periodically to capture new claims data and new members



# Rule identified by clinical team for suspecting Alzheimer's Disease

#### **Group 1: Suspect Alzheimer's Disease by Meds**

If all of the following are true:

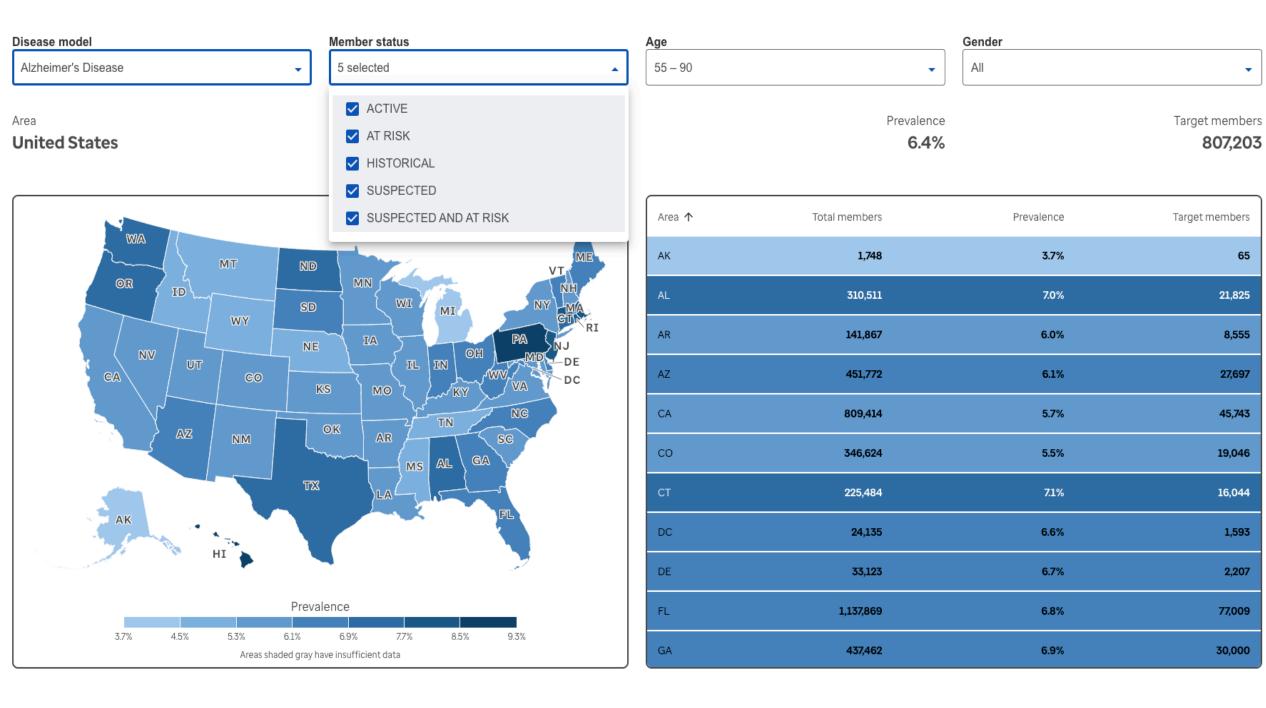
- The member has a medication fill for a Dementia medication (Donepezil, Memantine, etc.) in the last 6 months
- The member is 40 years old or older

## **Group 2: Suspect Alzheimer's Disease by Mild Cognitive Impairment**

If all of the following are true:

- The member has a diagnosis of Mild Cognitive Impairment in the current or previous calendar year
- The member is 40 years old or older





65

21,825

8,555

27,697

45,743

19,046

16,044

1,593

2,207

77,009

30,000