The US health information network is vast and complex. In 2012, worldwide digital healthcare data was estimated to be equal to 500 petabytes and is expected to reach 25,000 petabytes in 2020.¹

1 PETABYTE IS 1,000,000 GIGABYTES...

...That's 500 Billion pages of printed text!!

IT TAKES AN AVERAGE OF 7 YEARS to diagnose a rare disease²

Providing truly actionable insights of undiagnosed patients

We help fill gaps in market knowledge with real-world evidence from large pools of diverse data that reveal unexpected patterns and relationships.

HAE can be fatal

From 2006-2007, misdiagnosed HAE patients accounted for 50,400 hospital visits - > 41% of those resulted in hospitalization

Because of the asymptomatic and aperiodic episodes, it is very difficult to diagnose HAE

The average time to proper diagnosis is 8 years

For rare-diseases, finding an ICD-9 or ICD-10 code may be impossible. Often there are no codes for the rare disease or the code is too general.

STAGE 1: PATIENT DEFINITION

Known-Diagnosed HAE patients
Non-HAE patients
Undiagnosed HAE sufferers

A model is created to find the most unique identifiers & combination of identifiers that separate an HAE patient from a non-HAE patient.

STAGE 2: MODEL CREATION

Model Created from Known Patients

Model is then run on the entire population to find those who have the same combinations & patterns of unique identifiers.

STAGE 3: PREDICTION

Find Undiagnosed Patients

Run Model to separate Non-HAE patients from Undiagnosed HAE sufferers

Validation

Results confirm that 14 of the Undiagnosed HAE sufferers did get official diagnosis within 1 year.

Background on Hereditary Angioedema (HAE)

For more information, visit www.hvhprecision.com

contact us at info@hvhprecision.com

SOURCES
1. https://rockhealth.com/reports/predictive-analytics

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