Genetic Marker Detection for Chronic Fatigue

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Technology description

Invention Summary
U-6096 allows for the detection of Myalgic Encephalomyelitis, more commonly known as Chronic Fatigue Syndrome (CFS). At present, there are no accurate means of distinguishing this disorder from various conditions such as depression, which can make diagnosis and treatment difficult. Through the use of genetic testing, this methodology can differentiate CFS from other diseases improving patient outcomes, increasing the efficacy of physicians, and allowing for improvements in research.
Market Opportunity
Relevant Statistics:
Approximately 750,000 individuals in the United States have CFS
The current cost for medications to ameliorate symptoms is $8,675 per person, per year
Diagnostic tests have a wide range of costs ranging from tens of dollars to many thousands. However, modern exhaustive genetic tests often cost between $500 and $1000
The possible market can be derived in one of two ways, either by evaluating the current amount individuals are spending on treatments or by examining the market based on similar diagnostic tests.

Market from current patient costs. $ 6.53 BN Cases * current drug expenses
Diagnostic Market $ 750 MN Cases * Cost of modern diagnostic costs
Initial Target Market $ 75 MN One tenth of the Diagnostic Market

Advantages

Present methods cannot objectively detect the presence of chronic fatigue which is often difficult to differentiate from diseases such as depression. This technology could offer physicians an objective and accurate means to identify chronic fatigue syndrome
The ability to screen for CFS and separate individuals with CFS from those with similar diseases allows for more targeted research improving future treatment options
Having a distinct diagnosis can help relieve patient stress in addition to instructing the behavior used to alleviate symptoms

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