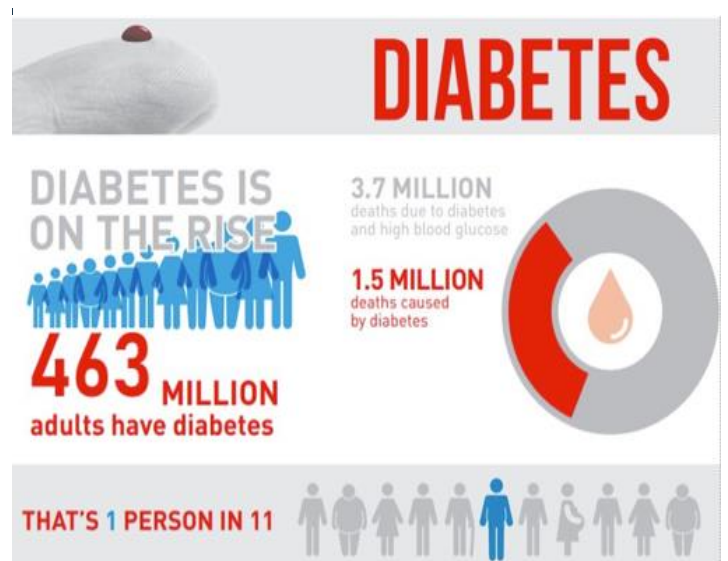


# Diabetes Genomics



## Genomic Testing for Diabetes Prognosis & Diagnosis

Both Type 1 and Type 2 Diabetes have strong genetic linkage and are a worldwide scourge that is debilitating the life style of billions of individuals. Pediatric screening of individuals at an early stage using our Precision Medicine Package for Diabetes can prevent and suggest a healthy life style for millions of individuals who are genetically prone to get Diabetes once they become adults.

# Clinical Genomics

This service will:

- Identify those at risk and diagnose those who have early-stage disease
- Help the Healthcare Professional choose the right medication and dose (and therefore reduce hospitalizations)
- Reduce the costs of diabetes care through more accurate treatment and reduction in critical diabetes events
- Is Metformin effective for this patient?
- If so, what is the ideal dosage?
- If not, will Insulin work and what type of Insulin?
- All these questions can be answered using our Big Data Genome Analysis Platform from a simple NGS sample
- Whole Genome (WGS) and Whole Exome (WES) Sequencing can identify whether a person has the genetic mutations related to Type 2 Diabetes.
- However, WGS and WES cannot identify how far into the onset of the disease the individual is.
- This is called the *Expression* of the gene mutations. A low level of expression means that the patient will stay disease free longer than someone who has a high level of expression of those specific mutations.
- Whole Transcriptome Sequencing (WTS) identifies the level of expression that the gene mutations have, and therefore how far into the onset of the disease the patient is.
- Gut Microbiome Sequencing identifies the personal microbiome profile of an individual which can have a profound effect on the Nutrigenomics advice for a Diabetes patient on the dietary requirements
- The level of Expression of the gene mutations changes with the impact of lifestyle, diet and medication changes and so are the changes in Gut Microbiome. And can therefore be used periodically to identify how successfully the disease is being controlled.
- Therefore, to correctly diagnose and understand Type-2 Diabetes in an individual, we conduct WGS, WTS and Gut Microbiome Sequence (GMS) analysis on the NGS sample. On a periodic basis thereafter, we can conduct WTS and GMS on further samples to diagnose disease progression.

## Why myClinGen?

myClinGen is a complete and comprehensive solution from sample collection to NGS Sequencing to BIG data analytics on Supercomputer to Customized reports to Cloud based Knowledgebase hosting to Genetic Counselling at affordable rates and a faster Turn Around Time (TAT).

Please see: [www.myclingen.com](http://www.myclingen.com) for more information.