JOINT EVENT

3rd International Conference on

ENDOCRINOLOGY AND METABOLIC SYNDROME &

12th International Conference on

ABDOMINAL IMAGING AND ENDOSCOPY

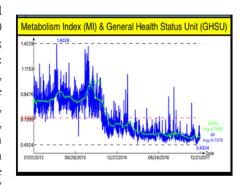
June 28-29, 2018 Amsterdam, Netherlands



Gerald C Hsu eclaireMD Foundation, USA

Using math-physics medicine to analyze metabolism and improve health conditions

The author has spent seven years and 18,000 hours to study, analyze and research his chronic disease conditions. Here is the comparison between 2010 and 2017: Weight: 205/172 lbs; Waistline: 44-34 inches; PPG: 350/116 mg/dL; FPG: 185/119 mg/dL; Daily glucose: 280/117 mg/dL; A1C: 10.0/6.1%; ACR: 116/12 mg/mmol; Triglycerides: 1161/69 mg/dL. He used mathematics, physics, engineering modeling, and computer science (big data analytics and AI) to derive the mathematical metabolism model and three prediction tools for weight, FPG, and PPG with >30 input elements. This study includes 11 categories: weight, glucose, blood pressure, lipids, food, water, exercise, sleep, stress, life pattern regularity, time, with ~500 input and output elements. He collected more than 1 million "clean" data over seven years. He defined two new terms known as the metabolism index (MI) and general health status unit (GHSU). The "health state"



is expressed as the "break-even" line which is 73.5%; above this percentage is regarded "unhealthy" and below the break-even line is "healthy". The results showed that he was very unhealthy (80%-110%) before 2013. The curve went through a sharp decline in 2014 due to his research. After 2015, he was "healthy" (60%-70%). As of 12/21/2017, his MI is 55.3% and GHSU is 56.1%. His entire previous lab test results confirmed with the diagram showing his chronic disease conditions is well under control.

Biography

Gerald C Hsu has received his honorable PhD in Mathematics and majored in Engineering at MIT. He attended different Universities over 17 years and studied seven academic disciplines. He has spent 20,000 hours in T2D research. First, he studied six metabolic diseases and food nutrition during 2010-2013, and then conducted research during 2014-2018. His approach is "Math-Physics and Quantitative Medicine" based on mathematics, physics, engineering modeling, signal processing, computer science, big data analytics, statistics, machine learning, and Al. His main focus is on preventive medicine using prediction tools. He believes that the better prediction, the more control you have.

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