



**Advanced technology + medical science
to empower people to reverse and
prevent chronic metabolic disease**



Chronic metabolic disease is widespread and growing.

25%

of people worldwide are estimated to have metabolic syndrome

**415
million**

people worldwide are living with diabetes

**>500
million**

will have diabetes by 2040

SOURCES: <https://www.nature.com/articles/s41598-021-87248-1>
<https://www.cdc.gov/globalhealth/infographics/diabetes/world-diabetes-day.html>

The status quo isn't working.

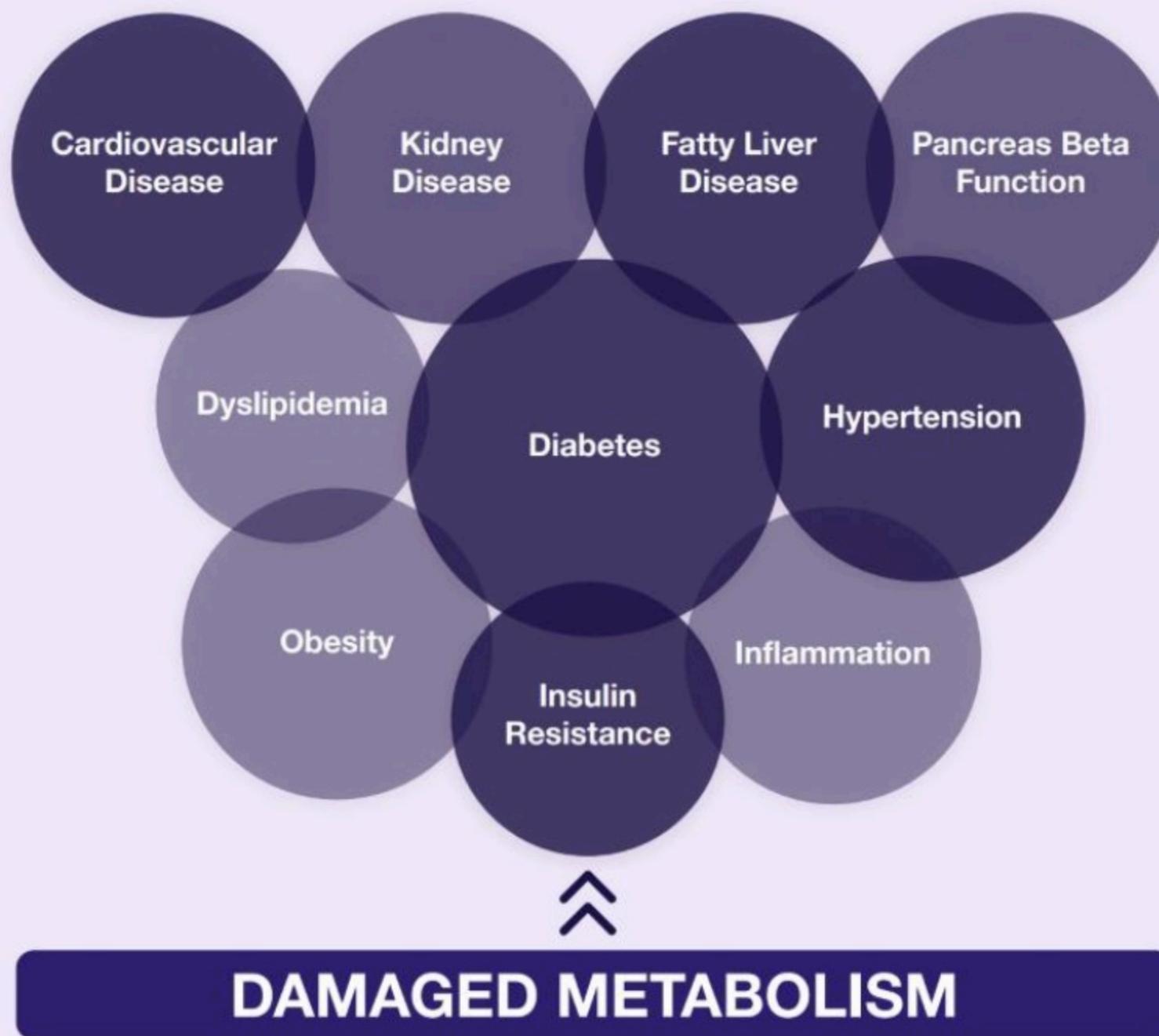
Treats symptoms instead of the root cause

Offers generalized population-based diet and exercise programs

Relies on costly medications that often produce side effects

Leads to marginal health improvements

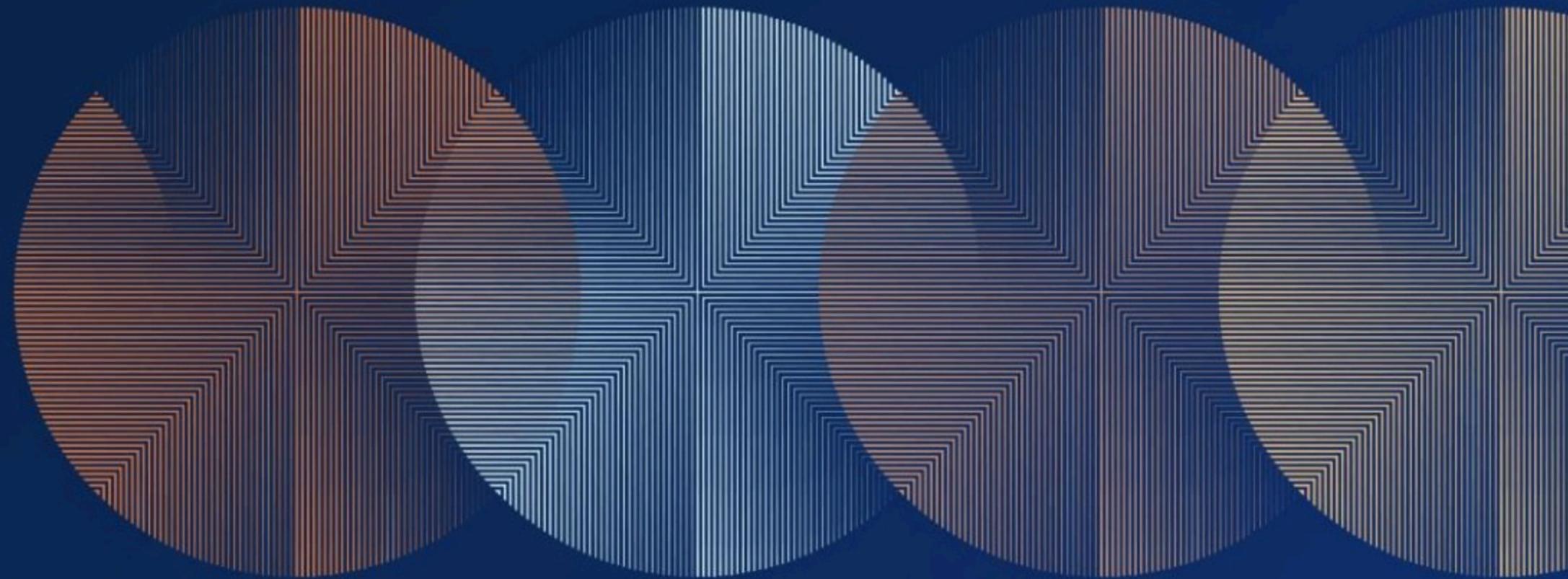
Chronic metabolic diseases stem from a single root cause—a damaged metabolism.

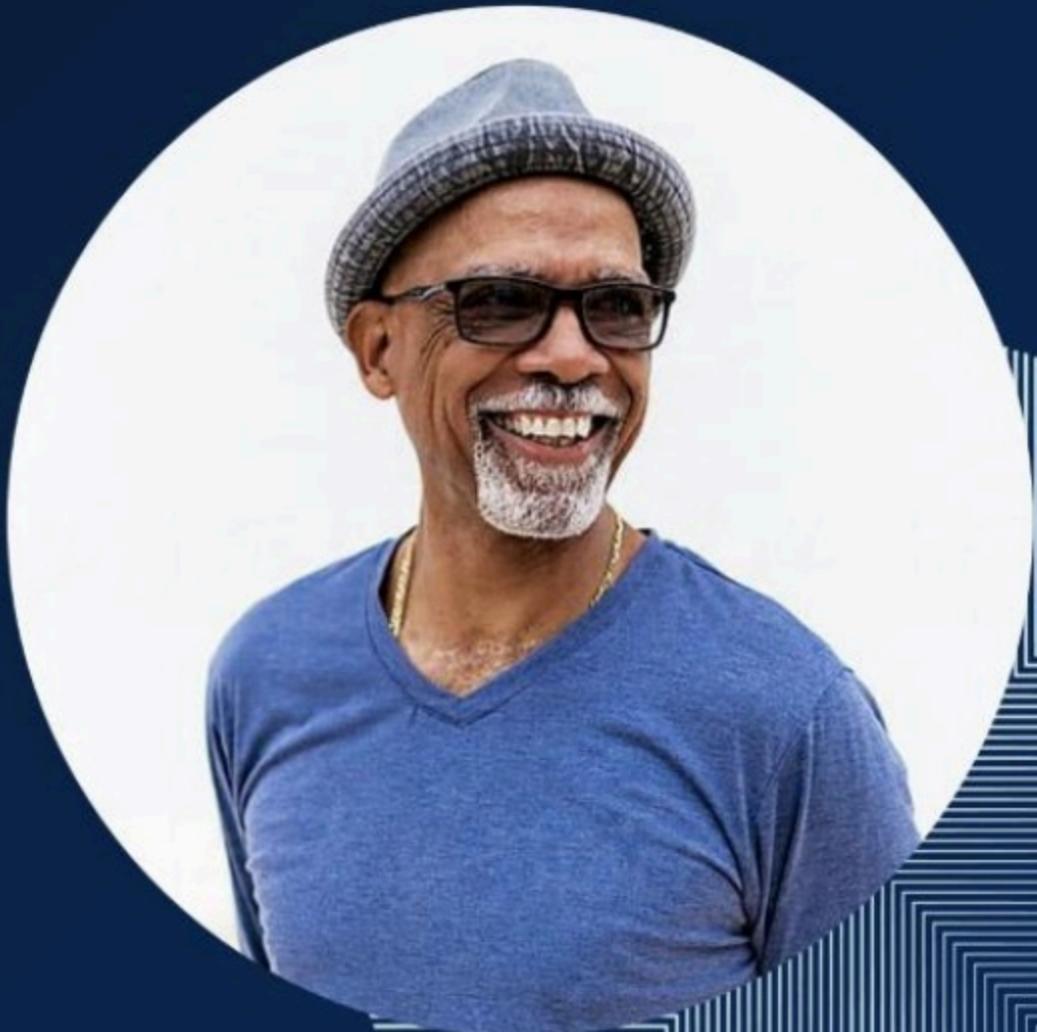


**Everyone's
metabolism is
unique.**

**Their treatment
should be too.**

Medical research has demonstrated that each person's metabolism functions differently—making it almost impossible for healthcare providers to customize care for each person.





Twin Health invented the **Whole Body Digital Twin™** to help reverse and prevent chronic metabolic disease, improve energy and physical health, and extend lifespan.



A digital twin is a virtual simulation of a physical object that constantly evaluates sensor data to monitor, repair, and optimize highly complex systems.

First used by NASA, digital twins are now used in sectors ranging from auto to aircraft to energy.

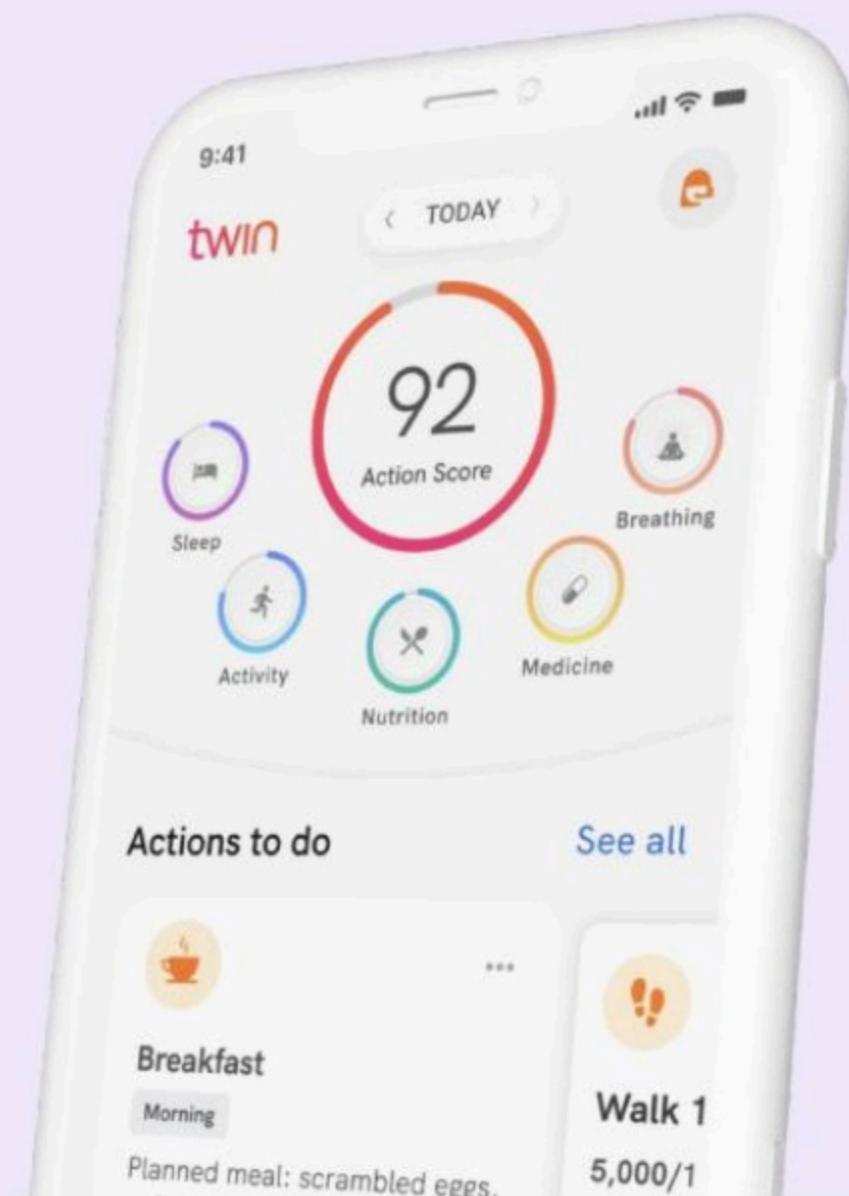


Twin Health's pioneering innovation, the Whole Body Digital Twin™, is the first to apply digital twin technology to the most complex system of all—the human metabolism.

The **Whole Body Digital Twin™** is a dynamic, digital representation of each person's unique metabolism built from thousands of data points collected daily from non-invasive wearable sensors and personal preferences.



Working with a healthcare provider and care team, the **Whole Body Digital Twin™** delivers personalized, precise, timely guidance across treatment areas—including nutrition, sleep, activity, and breathing—to help people eliminate medication under the guidance of their healthcare provider, reverse and prevent metabolic disease, and enjoy healthier, happier lives.



With Twin, metabolic disease doesn't stand a chance.

Twin Health's clinical research team is conducting the world's first randomized controlled trial for reversing chronic metabolic disease using digital twin technology. Trial data published in the American Diabetes Association's Diabetes journal shows first-of-its-kind outcomes across multiple metabolic chronic diseases, such as type 2 diabetes, obesity and fatty liver disease.

90%+

achieved type 2 diabetes reversal

92%

eliminated all diabetes medications, including insulin

-3.1
HbA1c

(average baseline of 8.7)

9.1
kg

average weight reduction

-24
units/L

average ALT reduction for patients with baseline abnormal liver function

SOURCE: American Diabetes Association, June 21, 2021
https://diabetes.diabetesjournals.org/content/70/Supplement_1/767-P



Happy is just as important as healthy.

Members report seeing and feeling improvements in their energy level and mood within the first month of using the **Whole Body Digital Twin™**.

What members say

“OMG! I really don’t know how to feel right now!!! I’m off all my meds! I’m so excited right now about this great news! I love you guys so much!!



You guys have helped me through the good, bad and ugly days when I wanted to give up. You guys were there for me. I never thought I could do this but I did. I’m so excited. I’m a living testimony 🐛🦋”

Started program on Mar 16, 2021;
in reversal, HbA1c 6.6 (from 11.4)

“I have wanted to be healed from this disease from the day I first found out that I had it.

Even with insulin shots, and eventually the insulin pump, I still had trouble controlling my diabetes.

I have been off of insulin for four days!!! Within one week, I am off of insulin. WOW!!!

I am so thankful [for Twin] to offer us this program!!!”

Started program on Apr 30, 2021;
in reversal, HbA1c 5.0 (from 7.1)

Published clinical results

American Association of Endocrinology (AAE) Annual Meeting 2021

Digital Twin Enabled Precision Nutrition Induces Remission of Diabetes Independent of Improvement in the Markers of Obesity, Endocrine Practice, Journal for Clinical Endocrinology, 2021 (Abstract)

American Diabetes Association's Virtual 81st Scientific Sessions

Effect of Digital Twin Technology for Remission of Diabetes on the Glycemic and Extra-Glycemic Parameters: Interim Results of the Prospective Randomised Controlled Clinical Trial, ADA Journal Diabetes®, 2021 (Abstract)

International Society for Pharmacoeconomics, ISPOR 2021

Health Economic Analysis of Digital Twin Technology for Remission of Diabetes: Initial Insights from the Prospective Randomised Controlled Clinical Trial (Abstract)

European Diabetic Nephropathy, Study Group 2021

Relationship between Renal Function and Glycemic Changes in Type 2 Diabetes Mellitus: Initial Insights from the Randomised Trial Evaluating Whole-Body Digital Twin Technology Enabled Precision Nutrition for Reversal of Diabetes (Abstract)

European and International Congress on Obesity 2021

Relationship between Obesity, Insulin Resistance and Glycemic Changes in Type 2 Diabetes Mellitus: Initial Insights from the Randomised Trial Evaluating Whole-Body Digital Twin Technology Enabled Precision Nutrition for Reversal of Diabetes (Abstract)

Journal of the Endocrine Society, Vol.5, April-May 2021

Response to Twin Enabled Precision Treatment for Reversing Diabetes: An Initial Analysis at 4 Weeks of the Ongoing Randomised Controlled Trial., Pages A474–A475 (Abstract)

Executive team



Jahangir Mohammed
Co-Founder & CEO

Jahangir is a prolific inventor with over 80 patents. He was named IoT Technology Pioneer at the World Economic Forum and was recognized for his visionary work and social impact by the Einstein Foundation. He was awarded an Honorary Doctorate by Concordia University, Canada.



Terry Poon
Co-Founder & Chief Technology Officer

Terry drives the vision for technology development. He leads the development of Twin's innovative platform and unique algorithms to improve human metabolic health using IoT, machine learning, and Digital Twin technologies. Prior to Twin, Terry was VP of Engineering at Jasper Technologies, where he built global software engineering teams and served as a lead architect of the company's IoT cloud platform.



Lisa Shah, MD, MAPP
Chief Medical Officer

Lisa Shah, MD is responsible for US clinical operations, outcomes, and innovation to reverse diabetes and other chronic disease. She has years of hands-on experience in healthcare and innovation, from designing value-based care models to leading the implementation of new care delivery models in the practice setting. Prior to joining Twin, Lisa served as CMO for Advantia Health, Chief Innovation Officer for Sound Evolent Health. She completed her residency in Internal Medicine and Pediatrics at University of Chicago.



Maluk Mohamed, Ph.D. Co-Founder & VP of Research

Maluk leads global trend-studies and guides the development of strategic initiatives based on research outcomes. He also runs operations for the Twin Service in India, including its launch in 2019. Prior to Twin, Maluk founded and served as President and Chairman of the MAM Group of Institutions in Tamil Nadu, India, growing to 10 colleges, educating in engineering, architecture, business administration, and nursing. He has 178 research publications in international journals and conference proceedings.



Christine Purcell
Chief Marketing Officer

Christine is responsible for building Twin into a leading global brand with strong human connection. She employs full-stack marketing to drive growth and craft experiences and communications that demonstrate Twin's unique value, create emotional connection, educate and empower, and build trust. She strives to be diligently strategic and beautifully creative. Prior to joining Twin, Christine was a marketing executive at Facebook and led client teams at McKinsey & Company.



Garrick Bernstein
Chief Financial Officer

Garrick joined Twin as Chief Financial Officer in April 2021. He is responsible for Strategic Finance, Accounting, Data Intelligence and Analytics, Legal and People Experience. Prior to joining Twin, Garrick helped build One Medical (ticker: ONEM) as CFO and led to the successful sale of a minority investment to the Carlyle Group prior to its subsequent Initial Public Offering. Prior to One Medical, Garrick was an investor at Vestar Capital Partners for a decade.



John Davis
Chief Commercial Officer

John is responsible for leading Twin Health's US commercial strategy and growth. John had 20 years' experience in healthcare, with deep focus on value-based care transformation and risk-based contracting models. Prior to joining Twin, John was an early member of the Evolent Health growth team where he supported Evolent's growth across Medicare, Medicaid and Commercial market segments.

Board of Directors

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Benchmark Capital

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Cleveland Clinic

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Caroline Xie

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ICONIQ Capital

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Former Chief Medical Officer,
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Medical Director, Joslin Diabetes
Center; Associate Professor,
Harvard University

Frank Williams

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Evolent Health; Former Chairman &
CEO, The Advisory Board Company

Rohit Satoskar

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Georgetown Transplant Institute; Medical
Director, Liver Transplantation; Associate
Professor, Department of Medicine at
MedStar Georgetown Transplant Institute

Patrick Conway, MD MSc

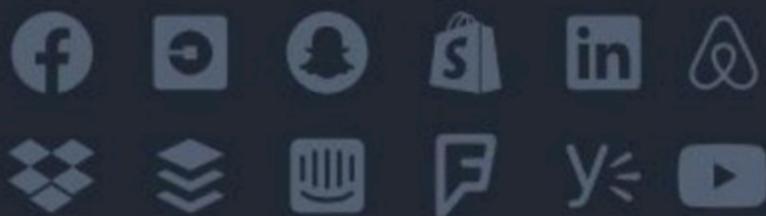
CEO of Care Solutions, Optum;
Former CEO, BCBS North Carolina;
Former Chief Medical Officer, CMS

Ambrish Mithal, MD

Chairman and Head of Endocrinology
and Diabetes, Max Healthcare; Former
Chairman, Division of Endocrinology and
Diabetes, Medanta the Medicity

Elbert Huang, MD MPH

Director, Center for Chronic Diseases
and Policy, University of Chicago;
Former Senior Advisor, HHS



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