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UNIVERSITY OF CALIFORNIA, LOS ANGELES

[Giants in Chest Medicine]

CHEST

Why?

VIDEO

Giants in Chest Medicine

Karlman Wasserman, MD, PhD, FCCP

Tomohiko Kisaka, MD, PhD
Daniel Dumitrescu, MD
Harry B. Rossiter, PhD
Kathy E. Sietsema, MD

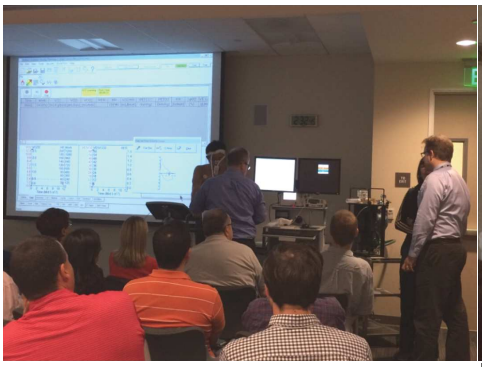
Karlman Wasserman, MD, PhD, FCCP

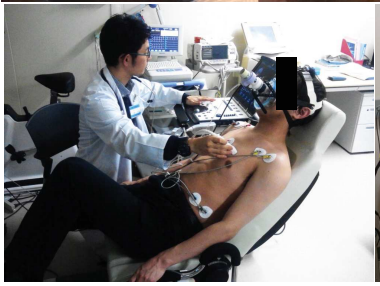
Karlman Wasserman was born in Brooklyn, New York, in 1927. He graduated from high school in June 1944, and at the age of 17, at the height of World War II, he joined the US Army Specialized Training Reserve Program. Before he was able to complete his studies in engineering at Princeton University, he was called to active duty, serving in the postwar Army of Occupation in Japan from September 1945 to December 1946.

Dr Wasserman used the Servicemen's Readjustment Act, also known as the G.I. Bill, to complete his undergraduate education at Upsala College, New Jersey, in 1947, majoring in chemistry with a minor in biology. A subsequent move to Tulane University provided postgraduate training in physiology in 1948, and kindled life-long interest in experimental physiologic research.

At Tulane, under the supervision of Dr Hymen Mayerson, Dr Wasserman's research focused on capillary permeability and the transfer of macromolecules, such as albumin, between the vascular and lymph compartments after acute changes in blood volume. He used newly available radioactive tracer molecules to provide precise measurements of plasma volume and albumin leakage from the blood. On the strength of these studies, Dr Wasserman was awarded a Doctorate in Physiology (PhD) in 1951, and embarked on an academic career studying respiratory physiology.

Kisaka T, et al. Chest. 2017;151(6):1209-1212.





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Hear

Heart

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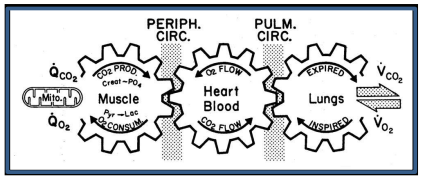

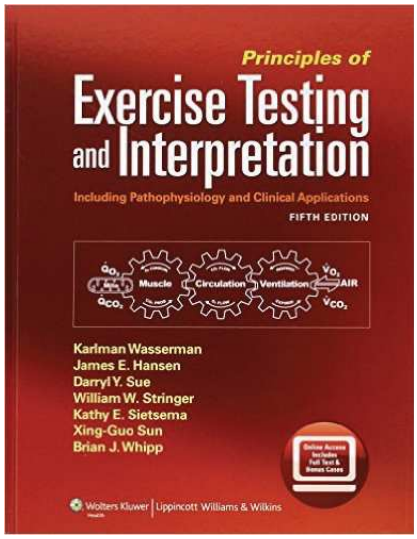

Harbor-UCLA MEDICAL CENTER

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Karlman Wasserman, Tomohiko Kisaka, Melissa L. Bates, Tingyang Zhou, Lei Ni, Robert Banzett, Nassib Chamoun

Journal of Applied Physiology Published 15 August 2015 **Vol.** 119 **no.** 4, 423-425 **DOI:** 10.1152/japplphysiol.00434.2015

LABioMed Los Angeles Biomedical Research Institute at Harbor-UCLA Medical Center

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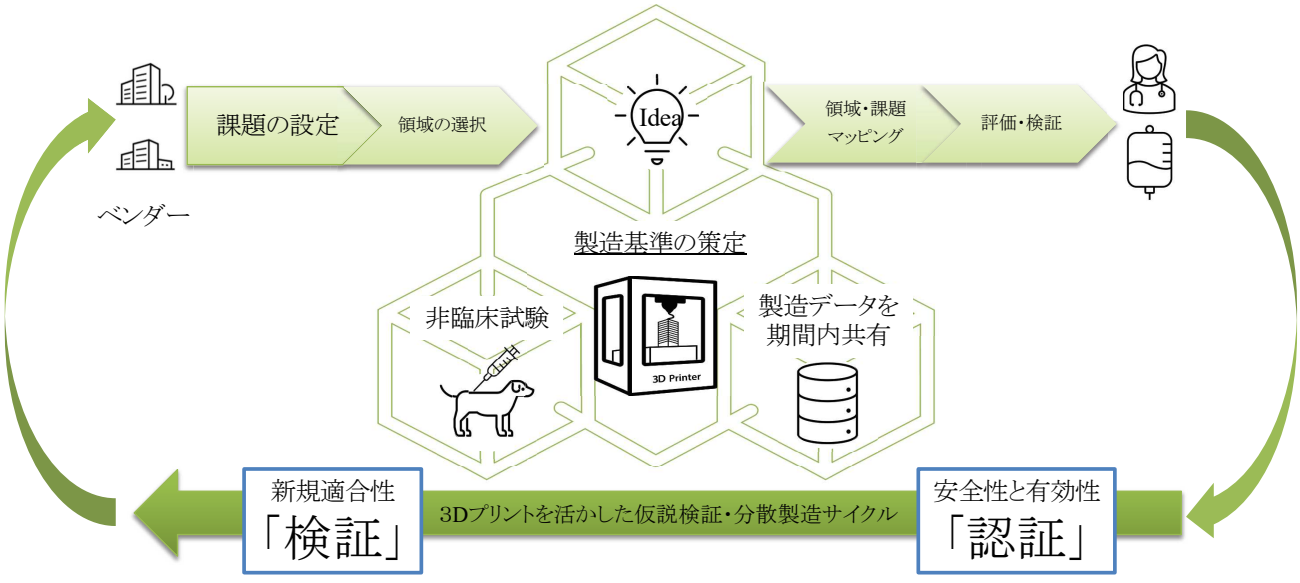
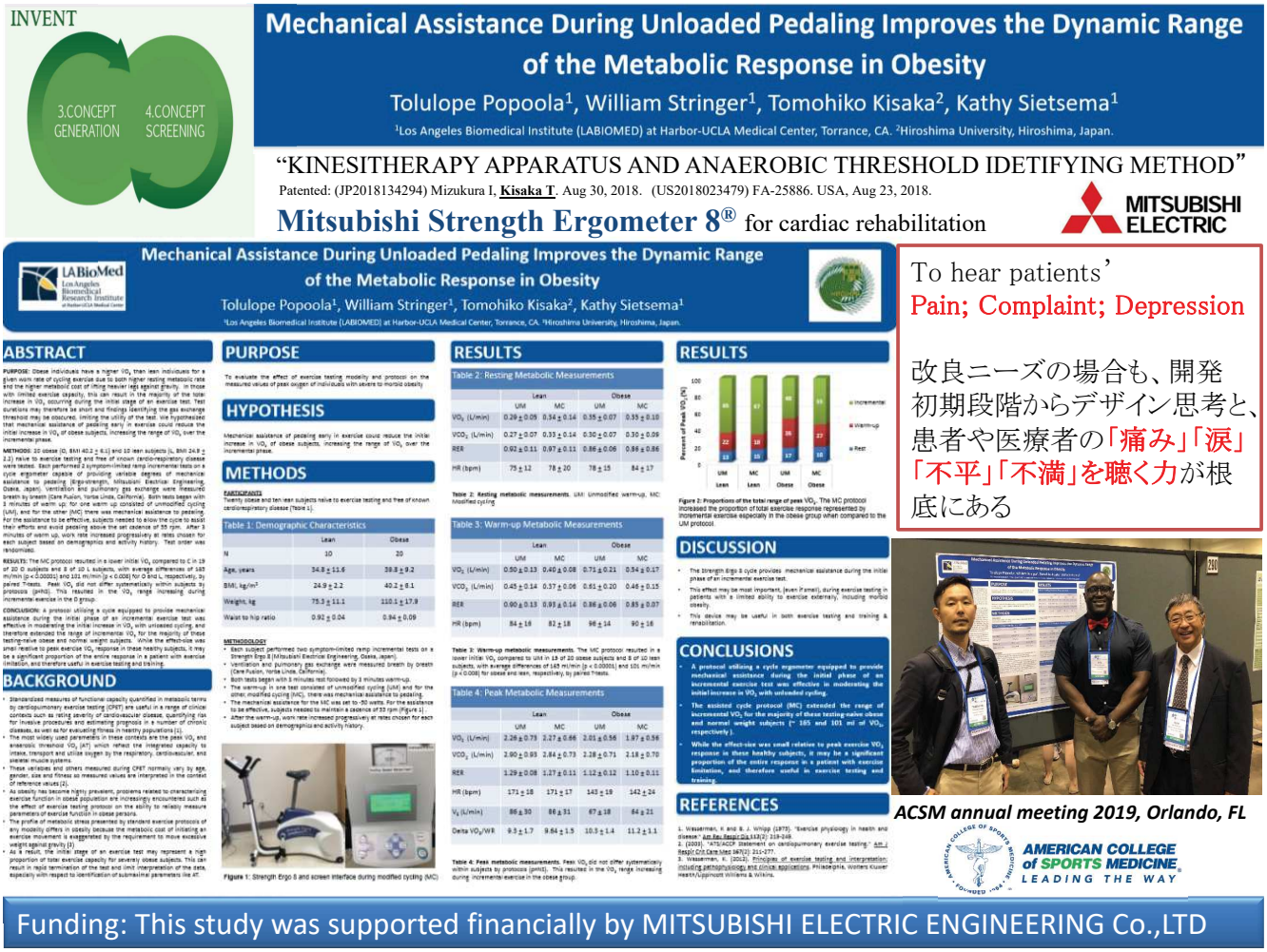
デザイン思考による解決策

【3Dプリントを用いて開発プロセスの簡素化と安全性を両立する】



D-EGGS PROJECT by SANDBOX

ひろしまサンドボックス事業 D-EGGS PROJECT, 3Dプリンタ医療機器の開発構想, 2021年04月-10月



令和元年ひろしまバイオデザインフェローの歩み