

The Latest Innovation in Light Based Technology Significantly Increases Human Potential

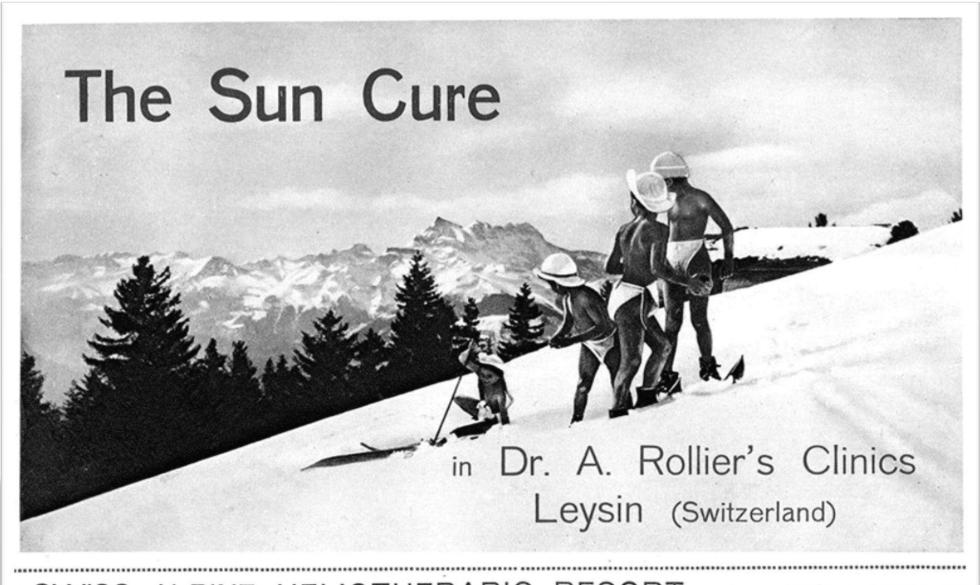


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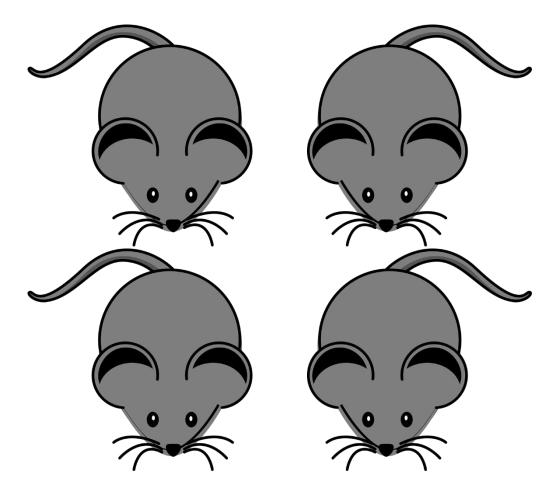




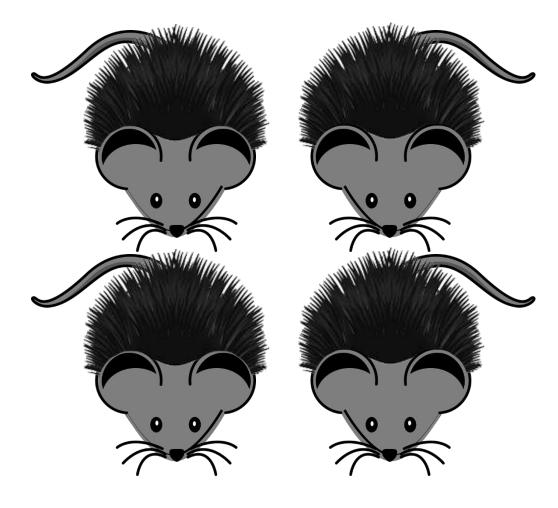


SWISS ALPINE HELIOTHERAPIC RESORT . ALT.: 4500 FT

Photobiosimulation



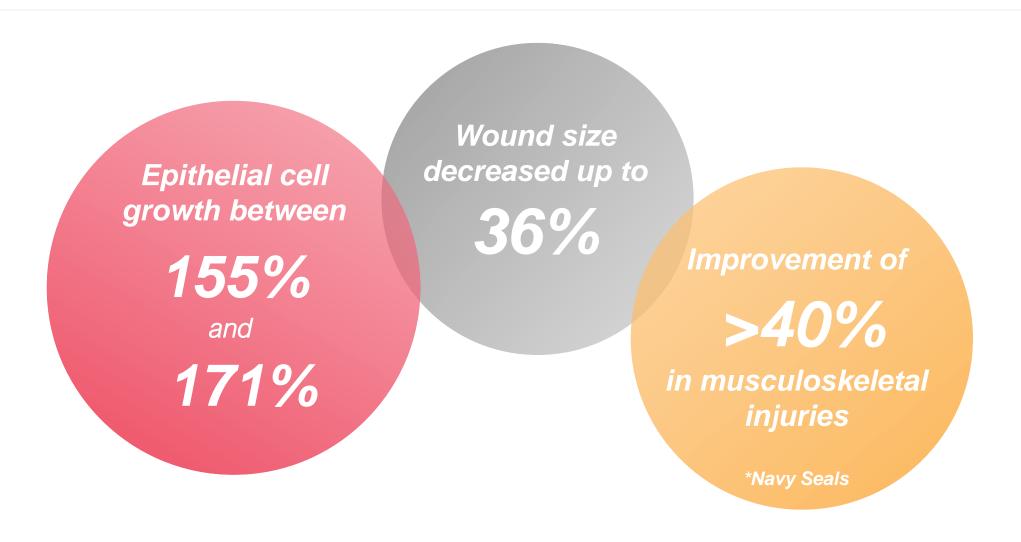
Group 1

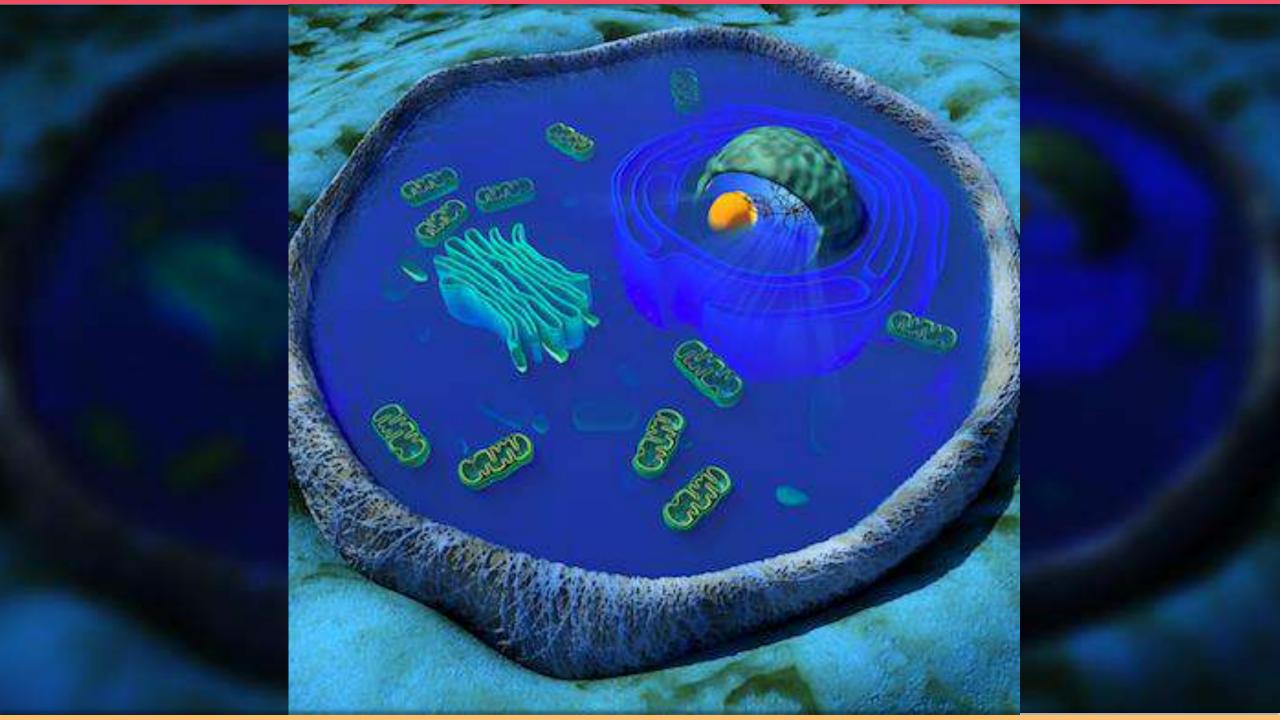


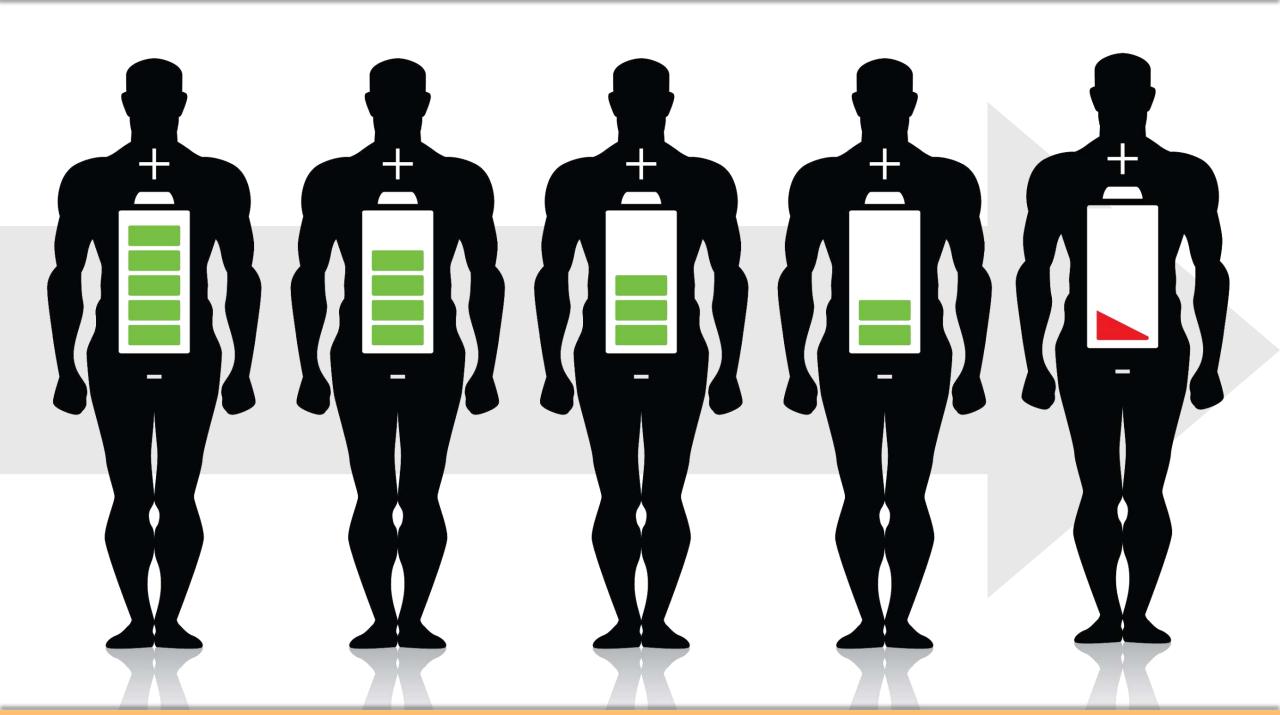
Group 2



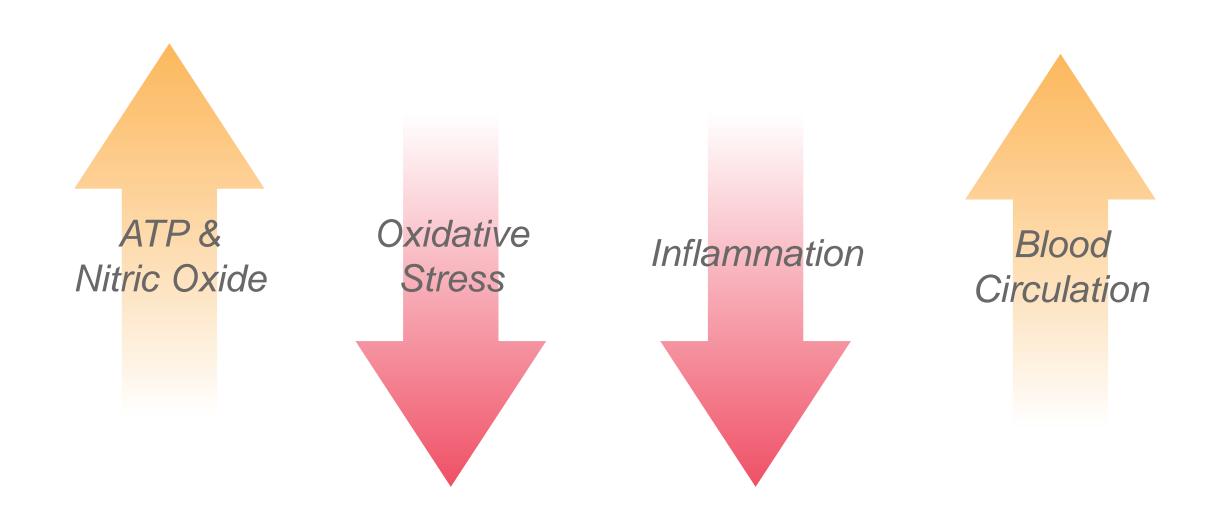
Effect of NASA Light-Emitting Diode Irradiation on Wound Healing







Studies Have Shown:





The Physiological and Therapeutic Role of Nitric Oxide

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Financial Disclosures

 Founder and Shareholder of HumanN (<u>www.humann.com</u>)



 Receive royalties on patents from University of Texas Health Science Center at Houston





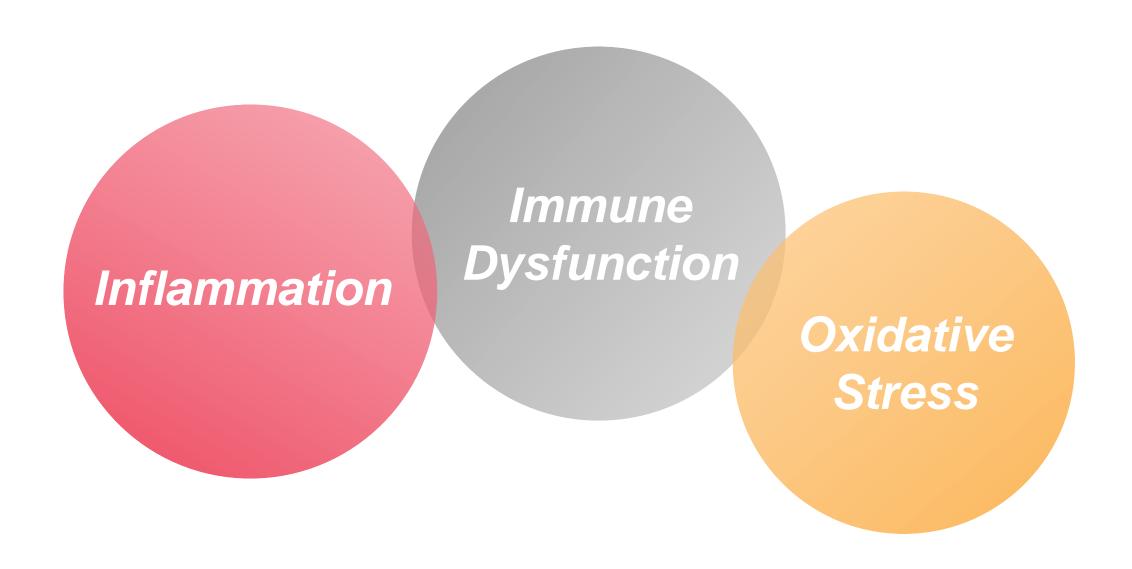


"A man is as old as his arteries."

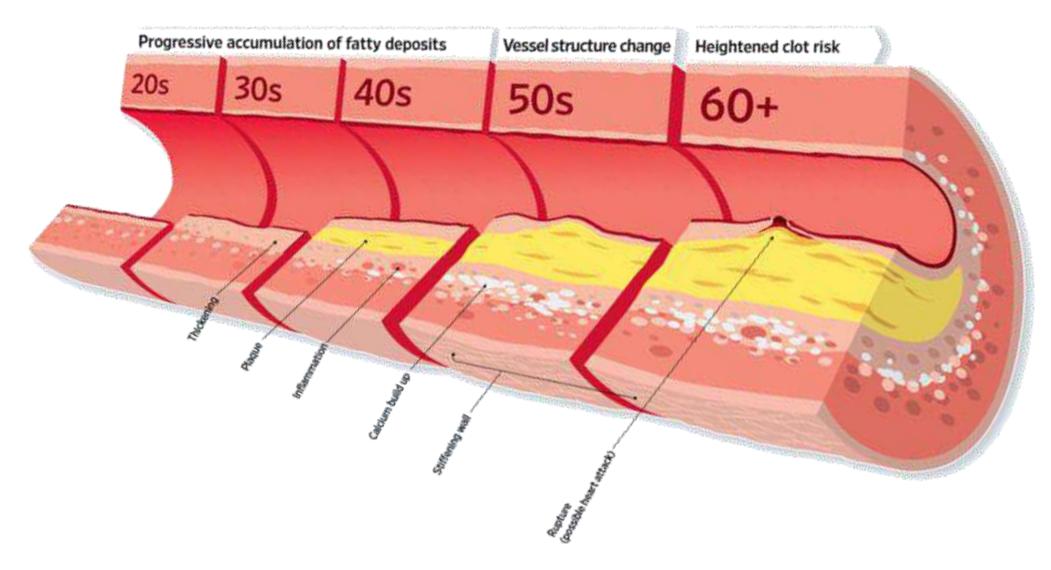
- Thomas Sydenham, English physician, 1624-1689

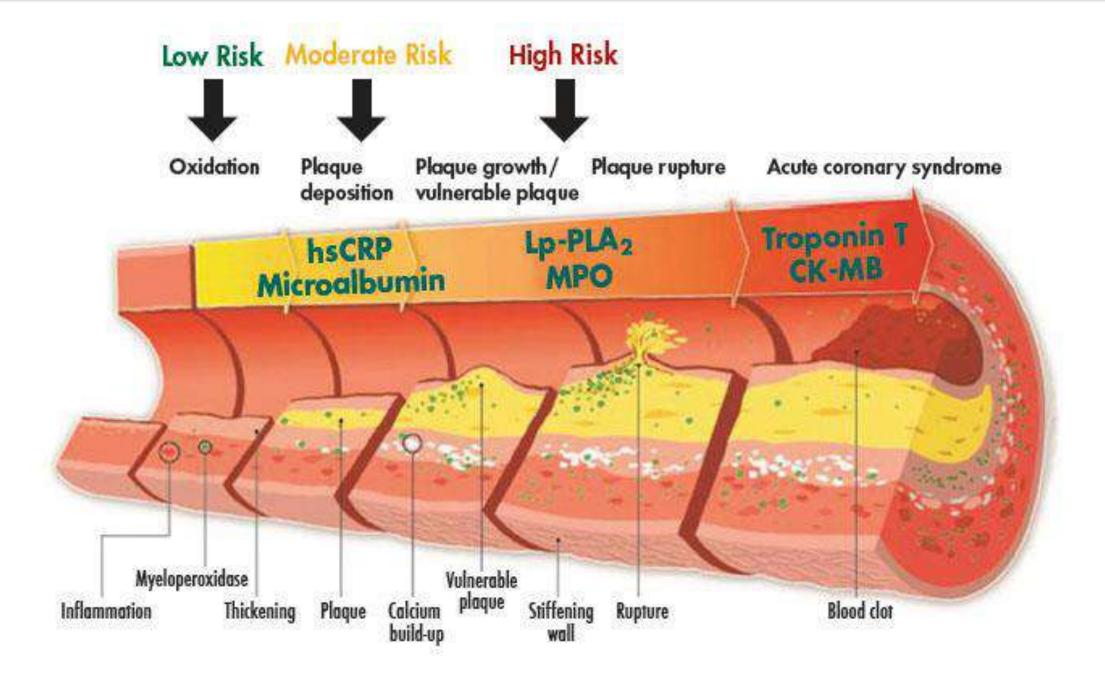


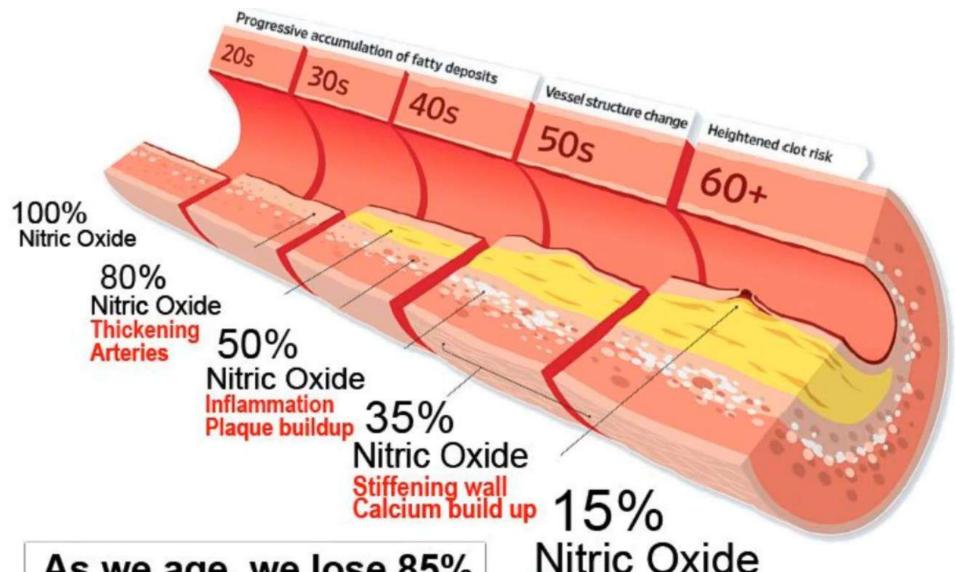
What Causes Arteries to Age?



The Age of Your Arteries







As we age, we lose 85% of our ability to make Nitric Oxide.

Nitric Oxide

Rupture (possible heart attack)

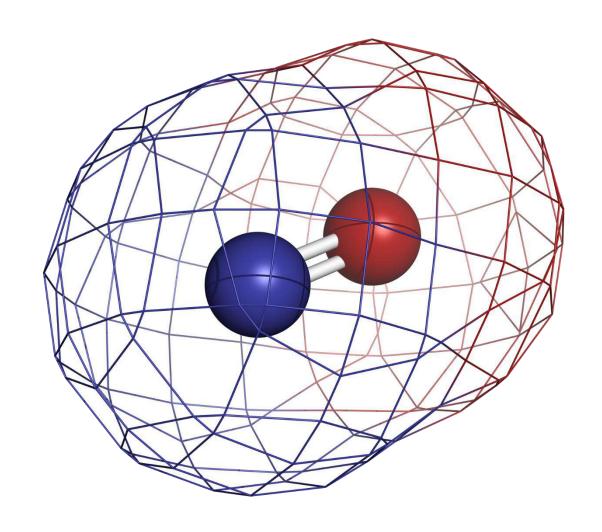
In your 60's and beyond,

the aging process partly reflecting the arteries withstanding more than 100,000 heart beats a day, contributes to the attack on the

How do we prevent, slow down or reverse arterial aging?

Nitric Oxide





What is Nitric Oxide

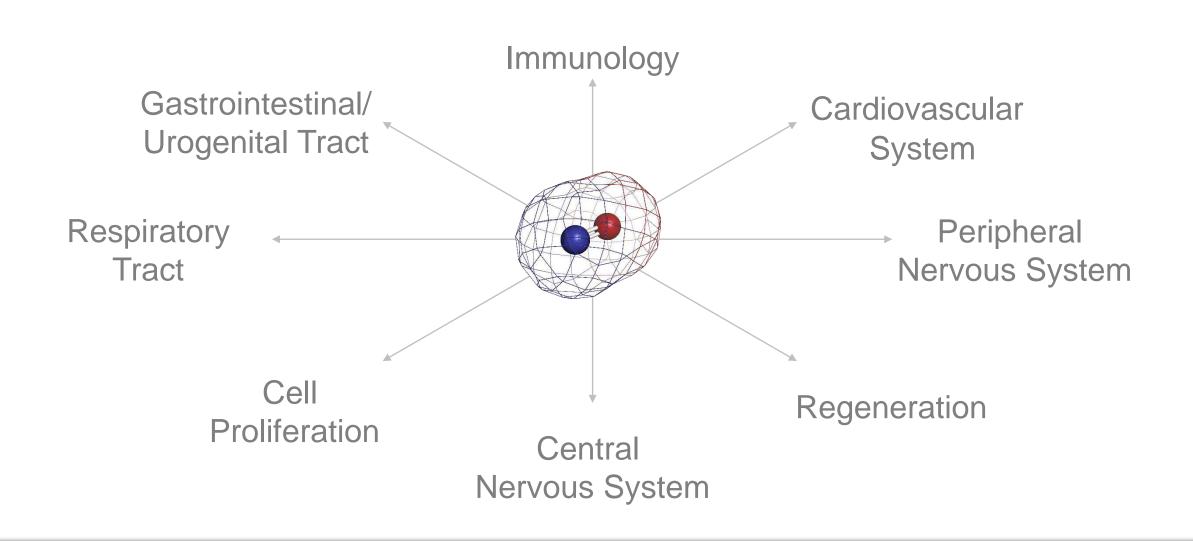
What it is

- Gas with chemical formula NO
- One of the most important human signaling molecules
- Useful free radical

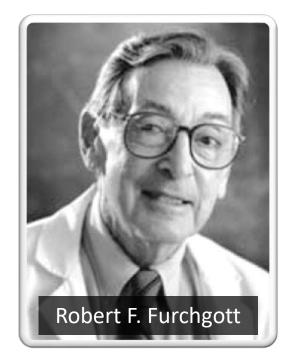
What it's Not

- Nitrous oxide (N2O)
 a general anesthetic
- Nitrogen dioxide (NO2) poisonous air pollutant

Nitric Oxide Plays a Key Role in the Regulation of Numerous Vital Biological Functions



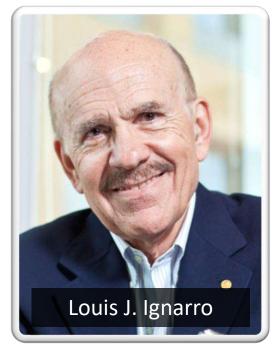
Nitric Oxide Plays a Key Role in the Regulation of Numerous Vital Biological Functions



1/3 of the prize

USA SUNY Health Science Center Brooklyn, NY, USA

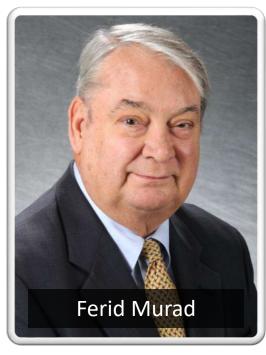
Born: 1916



1/3 of the prize

USA University of California School of Medicine - Los Angeles, CA

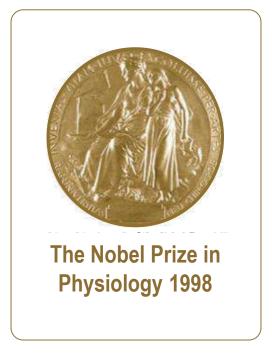
Born: 1941



1/3 of the prize

USA University of Texas Medical School at Houston, TX, USA

Born: 1936



"For their discoveries concerning nitric oxide as a signaling molecule in the cardiovascular system."

Source: Nobel e-Museum www.nobel.se

"The discovery of NO and its function is one of the most important in the history of cardiovascular medicine."

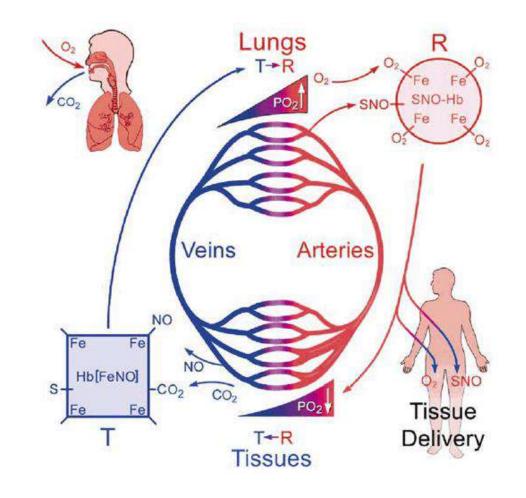
- Dr. Valentin Fuster, President of American Heart Association, 1998

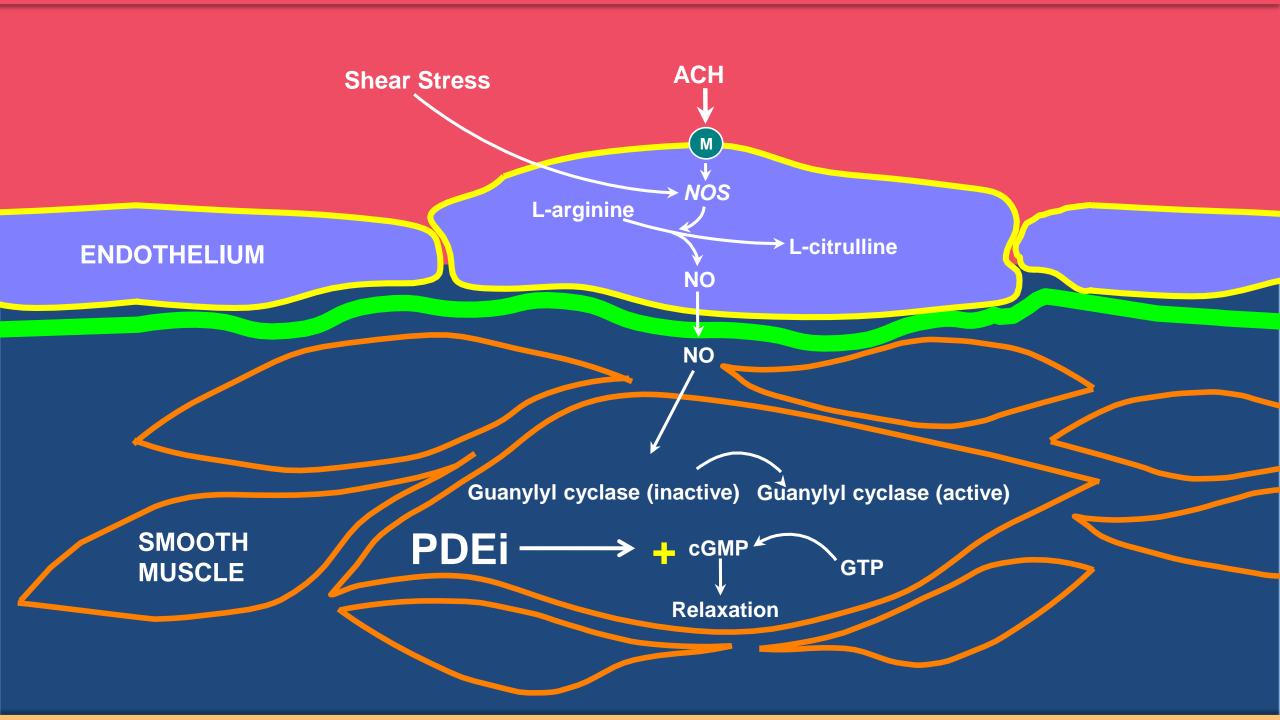


Nitric Oxide is Required for Red Blood Cell Delivery of Oxygen From the Lungs to Tissue

"Blood flow to tissues is actually more important in most circumstances than how much oxygen is carried by hemoglobin. The respiratory cycle is actually a three-gas system."

- Professor Stamler





Mechanisms of NO on Skin and Anti-aging

Dilates
capillaries
& increases
blood circulation
to the skin

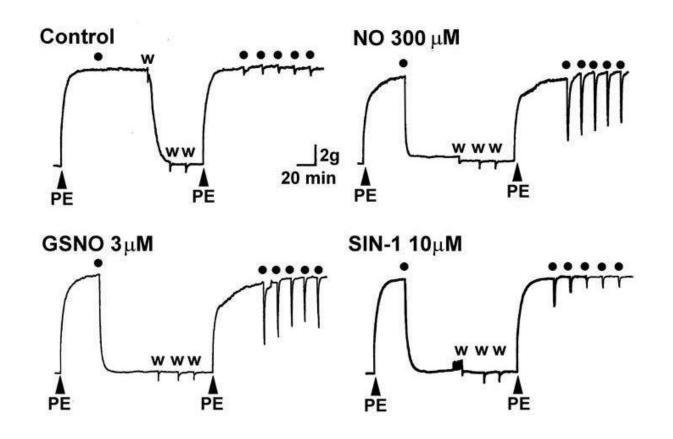
Circulation brings oxygen & nutrients to the skin

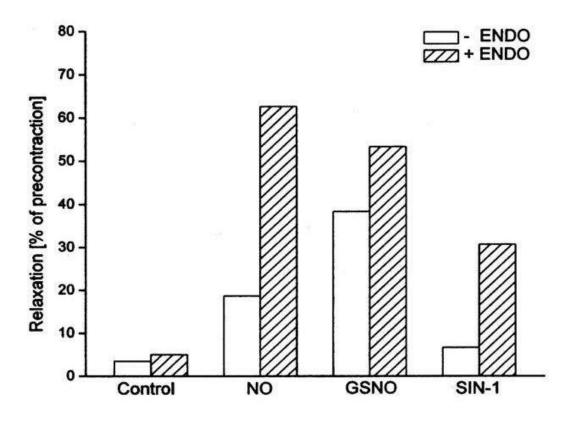
Improves skin texture, elasticity & thickness

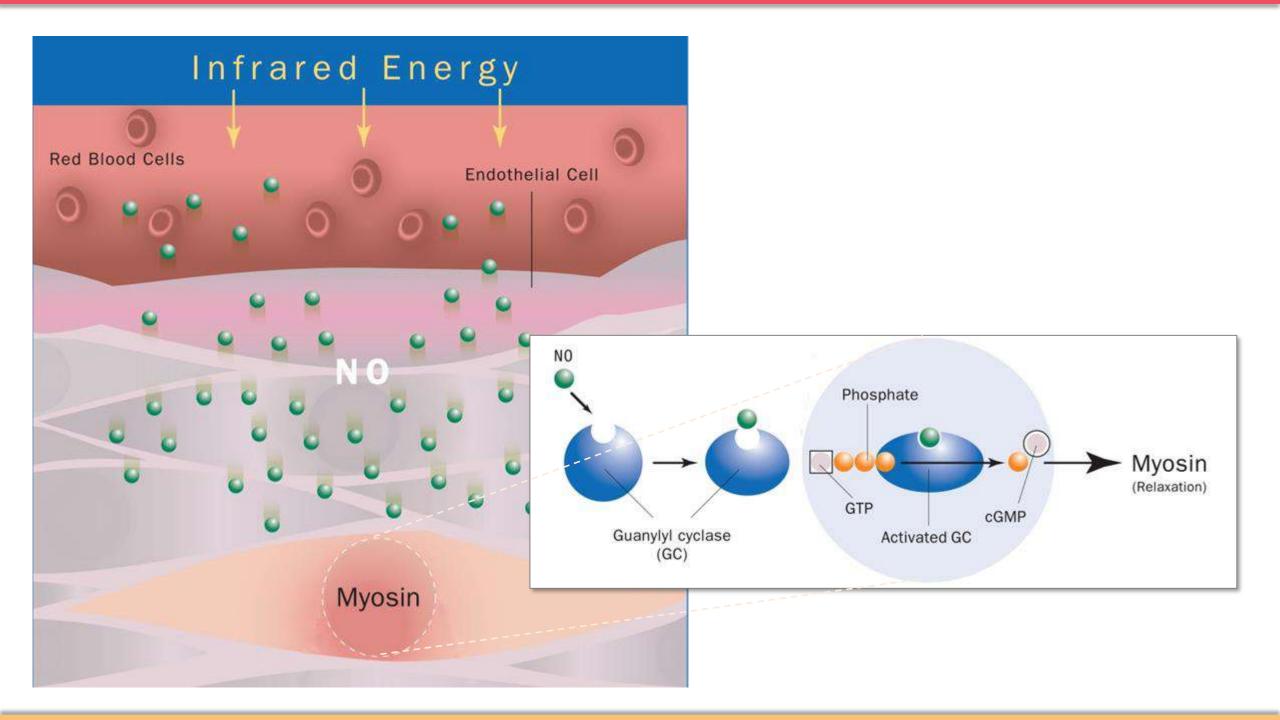
Stimulates cell regeneration and restores moisture

Helps reduce wrinkles and create tighter, smoother skin

Photorelaxation

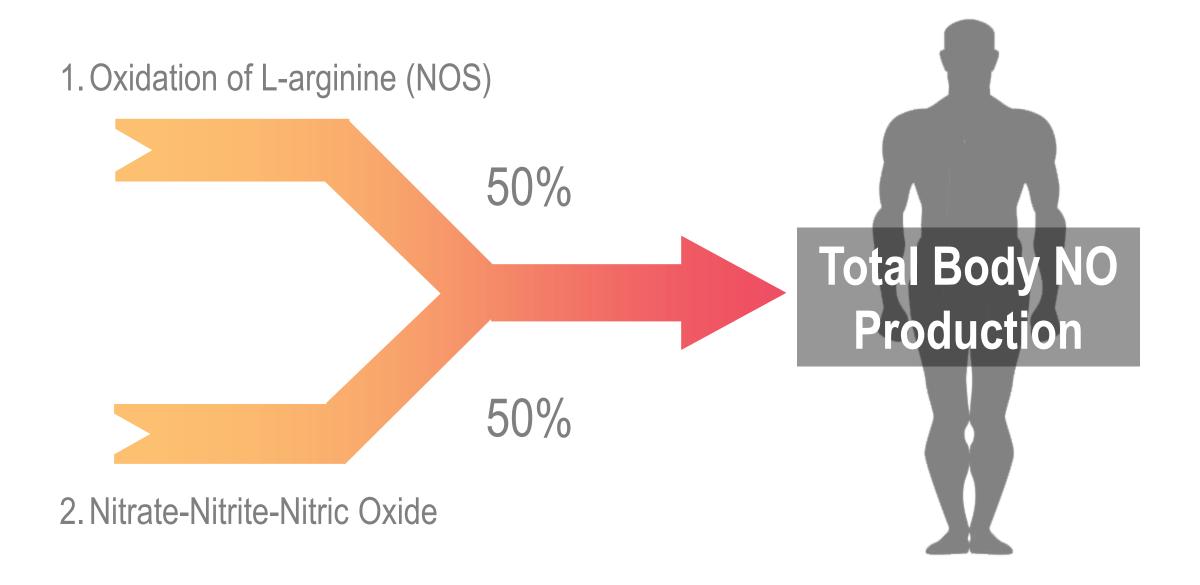




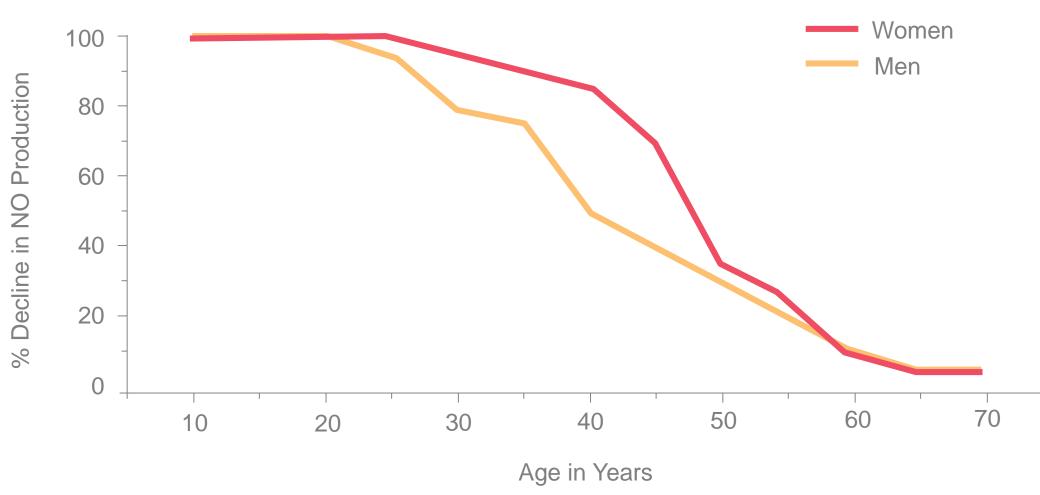


How do we control and regulate NO production?

Two NO Production Pathways



NOS Derived NO Declines With Age



Gerhard et al Hypertension 1996 Celermajer et al JACC 1994 Taddei et al Hypertension 2001 Egashira et al Circulation 1993

Consequences of NO insufficiency

Hypertension

Atherosclerosis

Thrombosis

Alzheimer's

Erectile Dysfunction

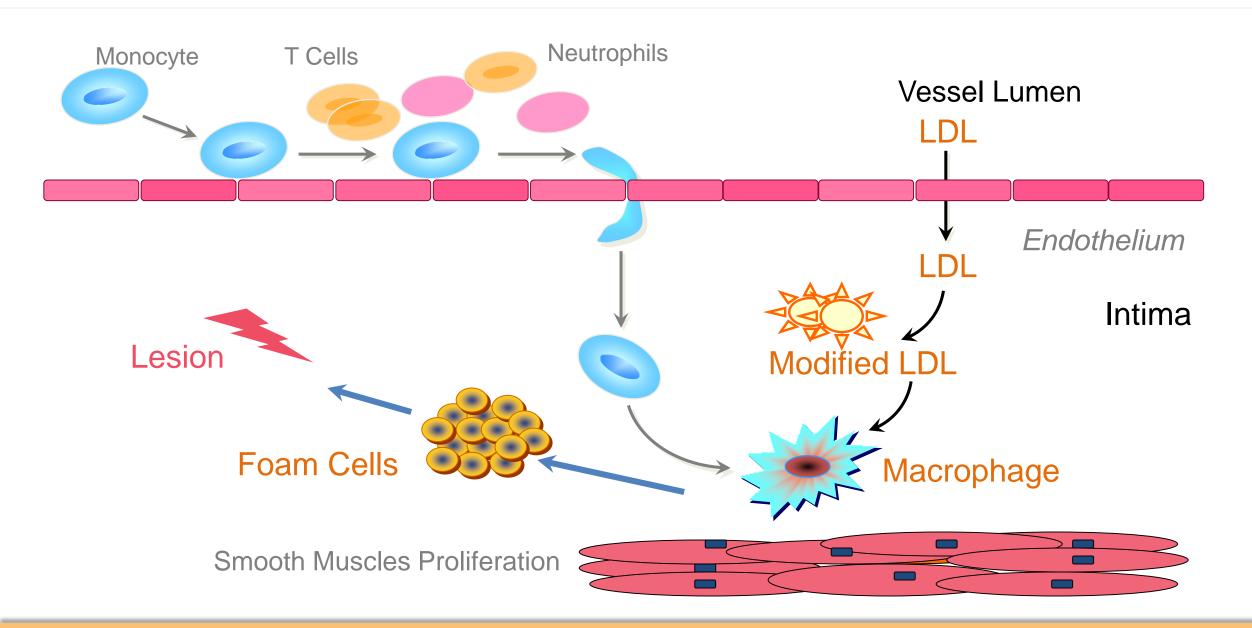
Peripheral Artery
Disease

Immune Dysfunction

Uncontrolled Cell Proliferation – Cancer

Chronic Inflammation

Atherogenesis



Atherogenic Diet



Atherogenic Diet + NO



Who Needs NO Based Therapies?

- Anyone who is aging
- Anyone over the age of 40
- People with circulation issues
- Diabetics
- People with low energy
- People with sexual dysfunction or who desire improved performance in bedroom
- Anyone on antacids
- Anyone interested in disease prevention

Take Home Message

Nitric oxide production is complex and complicated

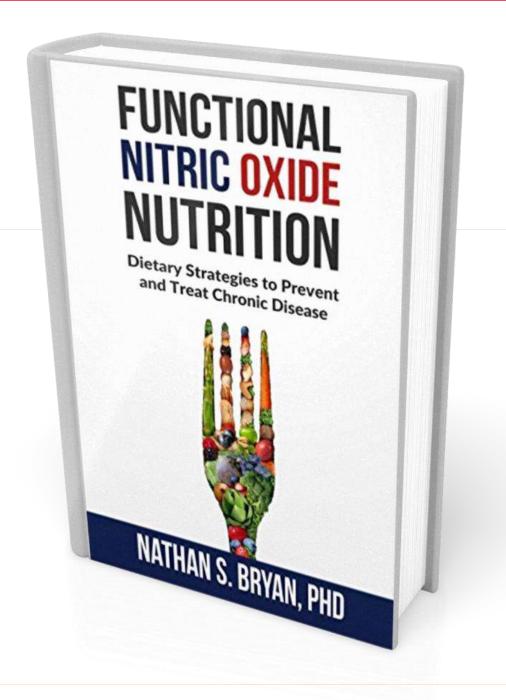
2. Specific wavelengths of light can lead to activation of endogenous NO release

3. Subjects must have sufficient photo-active NO stores

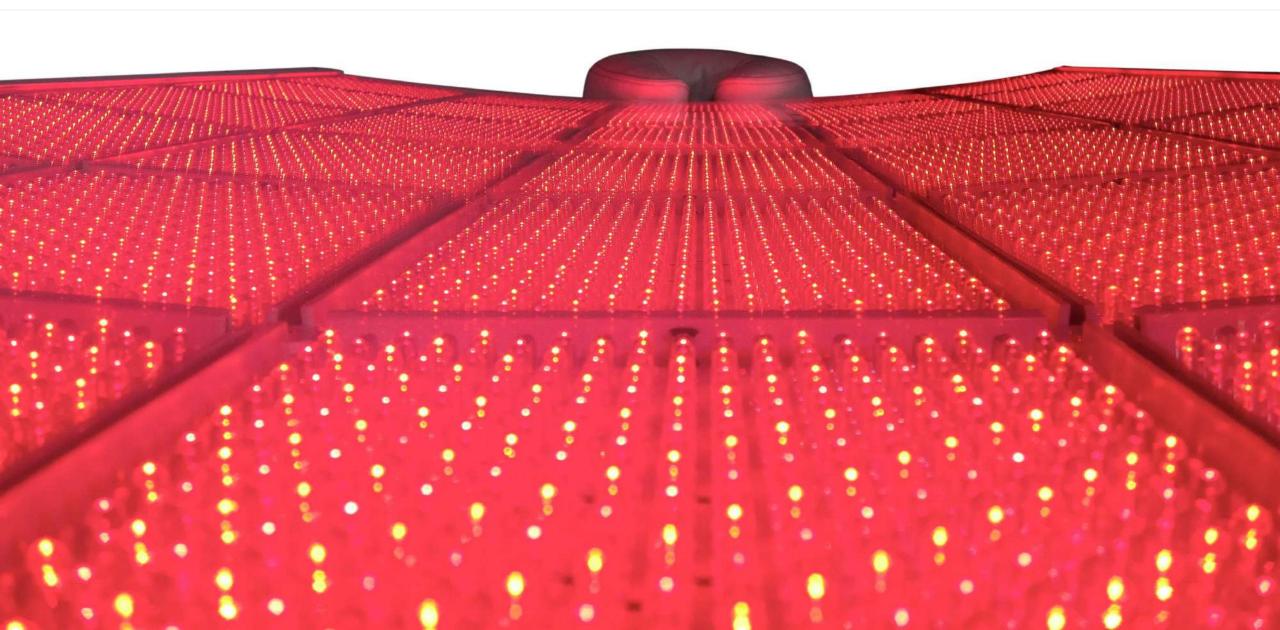
4. Your patients and clients will not heal or perform to their full potential unless you optimize NO

Questions:

nathan.bryan@bcm.edu



The Story of the Bed







Armed ve Center

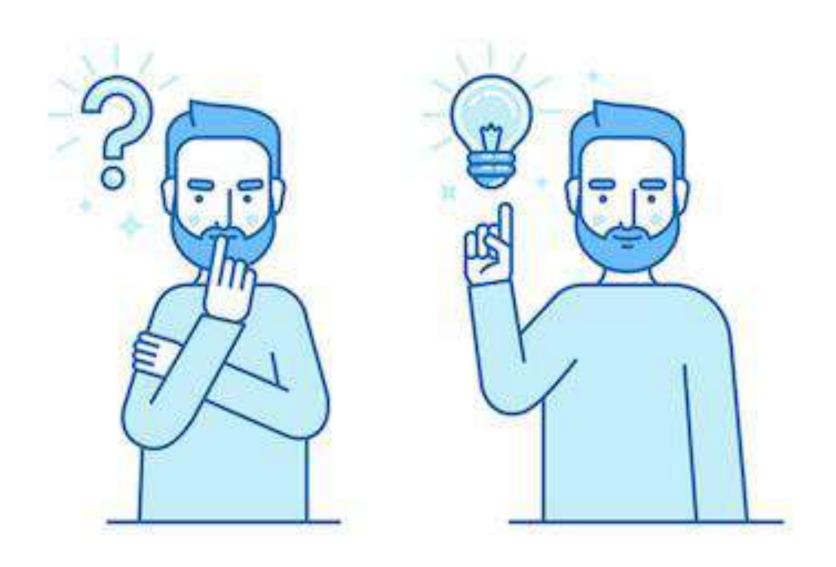
Barro





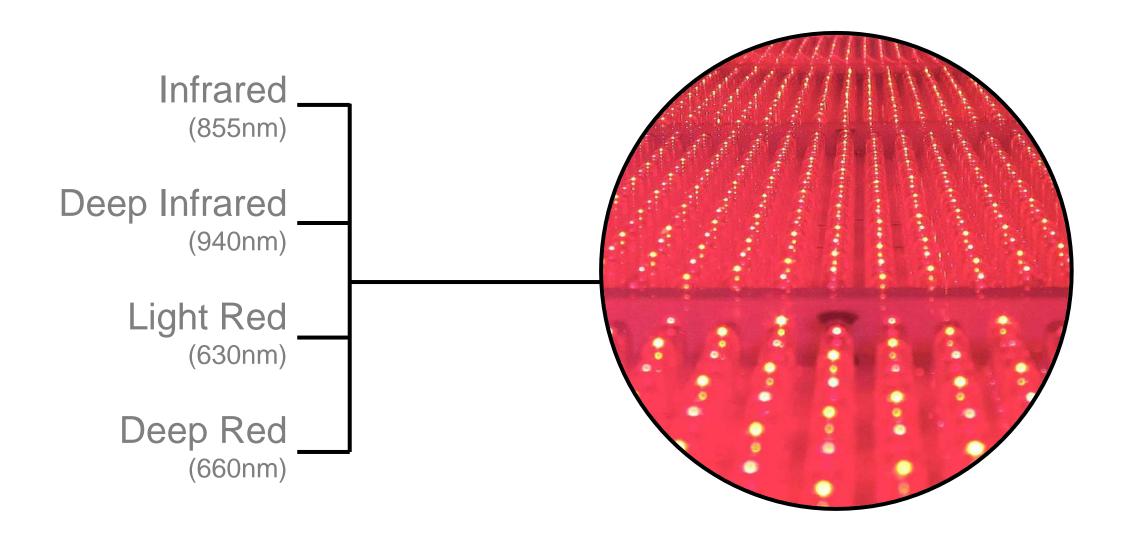


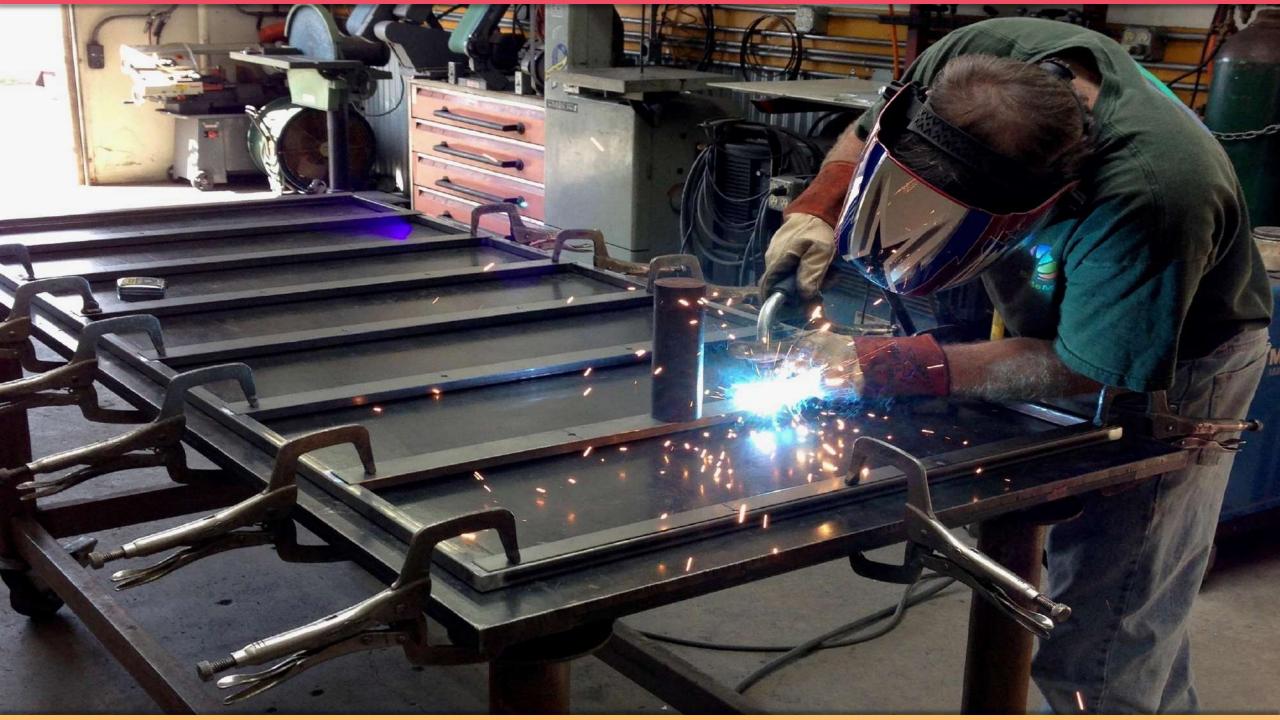




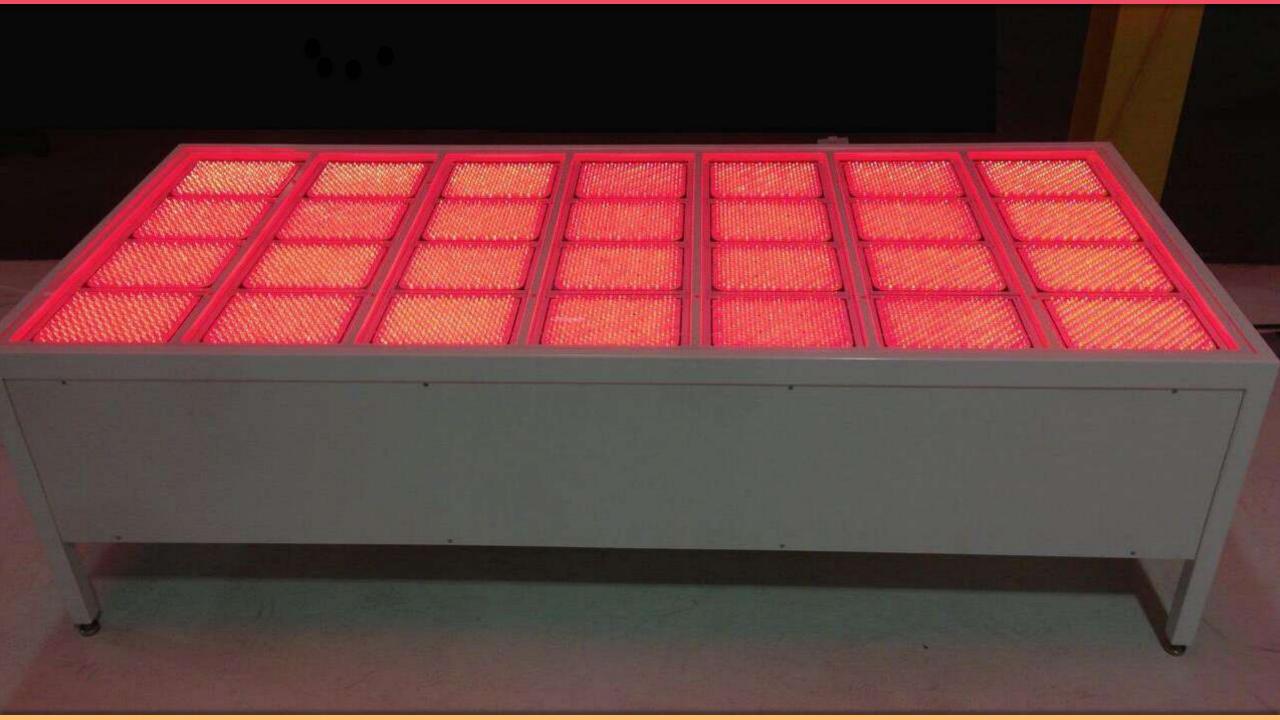


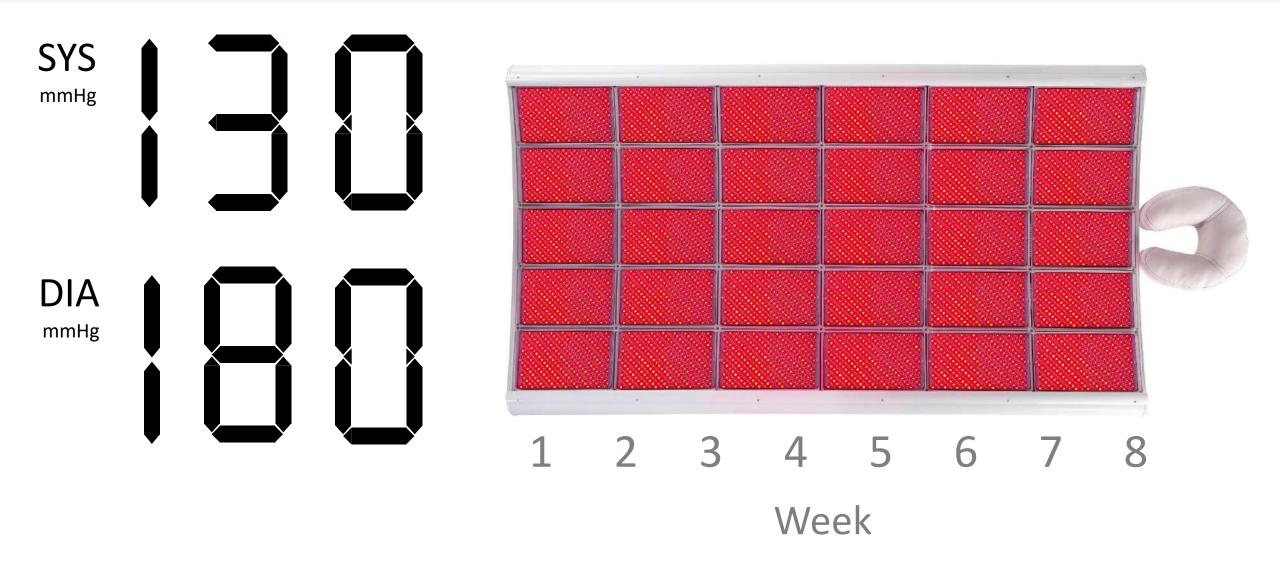
LightStim MultiWave® Patented Technology

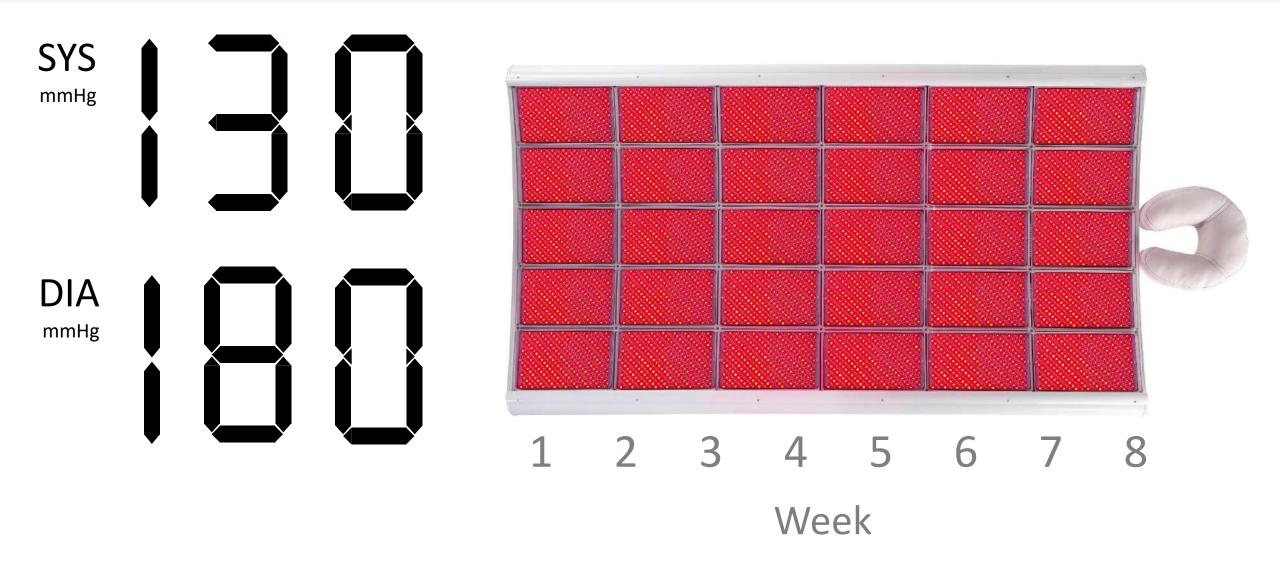


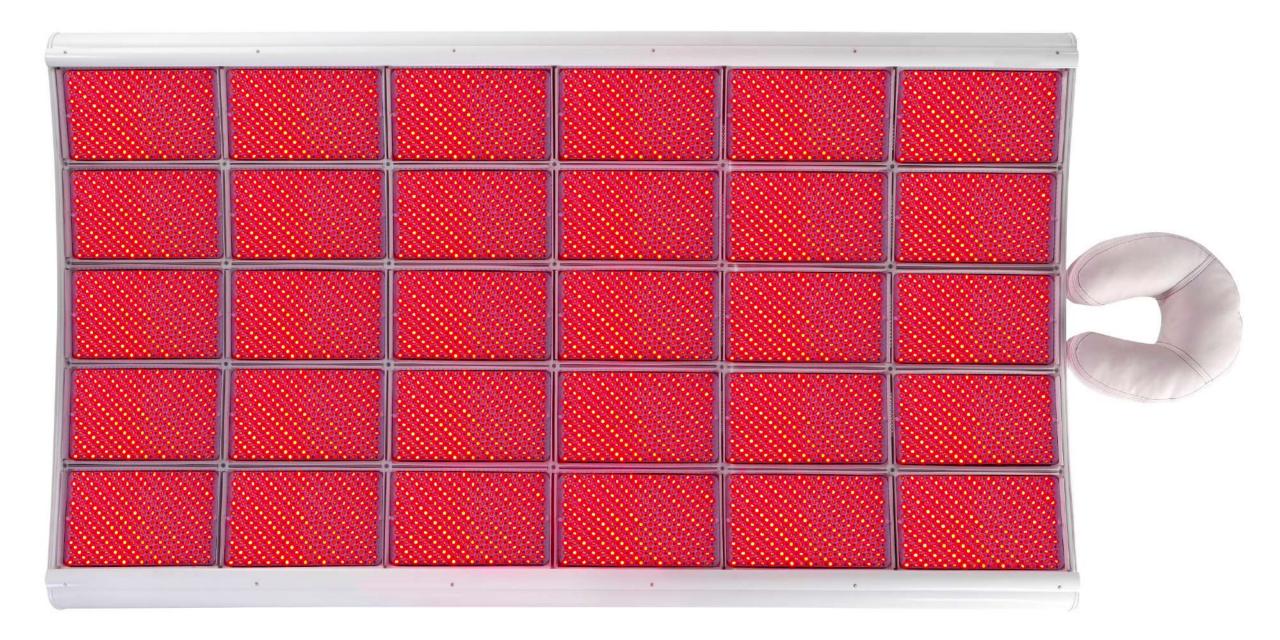


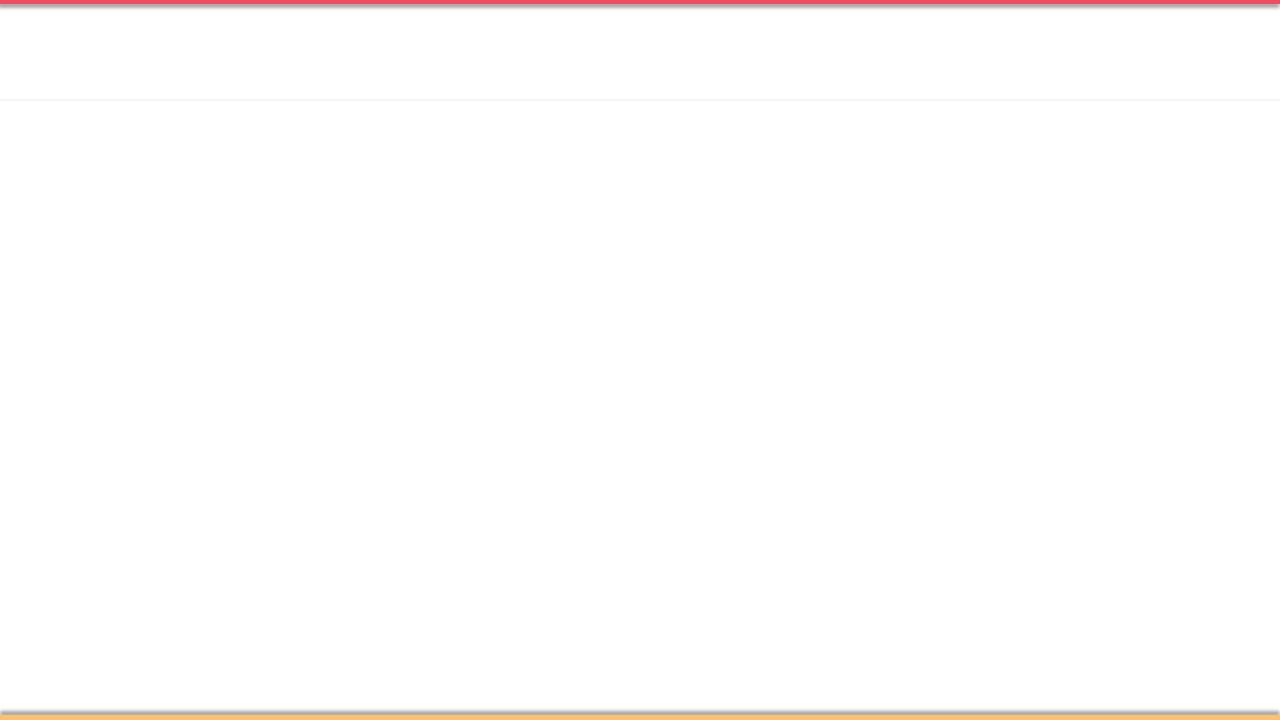












Shaping the Business of Wellness



