

**Founded:** 2009

**Headquarters:** Carlsbad, CA

**Team Members:** 237

**Devices Field Tested:** >8,000

**Treatments:** >20 million

**Patents:** 17 U.S. & International

**Regulatory:** FDA Cleared Class II medical devices, CE marked



## Overview

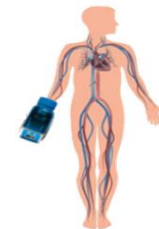
AVACEN (Advanced Vascular Circulation Enhancement) Medical ([www.avacen.com](http://www.avacen.com)) is a leading provider of drug-free, noninvasive treatments for pain relief and management, wellness, as well as diagnostics for cardiovascular disease and stress. Our heat therapy systems for pain relief were developed while working with research scientists at a leading research university. They are FDA Cleared Class II medical devices indicated for: (1) minor muscle pain (2) joint pain and stiffness (3) joint pain associated with arthritis (4) muscle spasms (5) minor strains and sprains (6) muscle relaxation, and (7) temporary increase of local circulation.

## Problem

Chronic pain impacts 116 million people in the U.S. alone - more than cancer, diabetes and heart disease combined. With up to a 70% higher mortality risk and 40 million enduring severe pain, it is a debilitating condition. To make matters worse, opioids are often used as a first line of treatment, with 143 million prescriptions in the U.S. in 2020. However, with over 13 million abusing drugs like Oxycodone, and over 100,000 deaths per year from opioids, drug-free alternatives are being sought out. Considering only 23% of patients found opioids effective for treating chronic pain, and 88.5% of chronic pain sufferers aren't satisfied using drugs for treatment, drug-free treatments are a viable alternative.\*

## Mechanism of Action

AVACEN uses the palm of hand as a noninvasive portal into the circulatory system. By continuously applying heat and negative pressure leveraging the patented AVACEN Treatment Method technology, the blood is warmed, reducing viscosity while maintaining vasodilation, both increasing microcirculation. Oxygenation and nutrition delivery increase to the tissues, and CO<sub>2</sub> and waste removal improves. Muscular relaxation increases and widespread pain is reduced.



## Awards & Recognition

1. San Diego World Trade Center Award (2016)
2. Frost & Sullivan New Product Innovation Award (2017)
3. State of California Innovation Awards (2022)
4. Inc. 5000 - #4300 (2020), #2241 (2021), #1480 (2022)



\*References available upon request.

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