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# Non-Pharmacological, Neurostimulation Treatment for Hypertension

Tech ID: 33993 / UC Case 2024-99V-0

## BRIEF DESCRIPTION

A groundbreaking non-pharmacological approach to controlling resistant hypertension through personalized, closed-loop neurostimulation.

## FULL DESCRIPTION

The Hypertension Elimination via Adaptive Loop Stimulation (HEALS) Patch represents a novel medical device aimed at reducing blood pressure non-pharmacologically by utilizing closed-loop neurostimulation that adjusts in real-time to individual patient responses. This technology monitors continuous blood pressure, heart rate, and nerve responses during electrical stimulation, using biofeedback to fine-tune stimulus parameters for optimized, personalized therapy.

## SUGGESTED USES

- » Non-pharmacological treatment options for hypertension, especially resistant hypertension.
- » Personalized medical devices for cardiovascular disease prevention and management.
- » Technologies for real-time monitoring and management of chronic health conditions.
- » Innovative solutions for reducing global hypertension prevalence and associated healthcare disparities.

## ADVANTAGES

- » Non-invasive alternative to current surgical interventions.
- » Personalized treatment through real-time, closed-loop control and monitoring.
- » Reduces blood pressure without affecting heart rate, avoiding negative chronotropic responses.
- » Addresses the unmet need for effective treatment in resistant hypertension (RHT) patients.
- » Potential to prevent prehypertension from progressing to full-blown hypertension

## PATENT STATUS

Patent Pending

## CONTACT

Alvin Viray  
aviray@uci.edu  
tel: 949-824-3104.



## OTHER INFORMATION

### CATEGORIZED AS

- » **Biotechnology**
  - » Health
- » **Medical**
  - » Devices
  - » Disease: Cardiovascular and Circulatory System
  - » Rehabilitation
- » **Sensors & Instrumentation**
  - » Medical

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5270 California Avenue / Irvine, CA  
92697-7700 / Tel: 949.824.2683



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