

## Medical Device for Enhanced Blood Circulatory Perfusion

Disruptive Technology to Address Issues with Diabetes, Lymphedema, DVT, VTE, and Sports Recovery



### The Company

- Private US technology company
- Collective 60 years of clinical experience
- Experts at lower extremity blood circulation
- Opportunities across multiple global markets
- Over 1,300 units in use in the market

### The Offering

- Products, designs and specifications
- Seminal patent portfolio, global coverage
- Independent peer reviewed studies
- Trademarks and brand recognition
- Knowhow including clinical knowledge

### Platform Technology

- Prophylactic and therapeutic solutions
- Internet of Things (IoT) connected patients
- Monitoring of compliance & trends
- Design Options
  - Therapeutic/Prophylactic Shoe
  - Therapeutic/Prophylactic Sandal
  - Therapeutic/Prophylactic Insole
  - Male & female targeted models
  - Custom fit for optimized performance
  - Custom integration such as in recliners

### Global Diabetic Statistics



Source: International Diabetes Federation (2017)

### Device Addresses the Following Applications

- Diabetes (ulcers, edema, neuropathy)
- Lymphedema
- Pregnancy Complications
- Venous Thromboembolism
- Chronic Venous Insufficiency
- 60+ Living Complications
- Sports Rehab & Training

### The Opportunity

Blackhawk Technologies, LLC is exclusively representing a leading US-based Medical Device Company to find monetization partners for its biomechanical device that increases both deep vein circulation and microvascular circulatory perfusion by delivering cyclic pressure to veins in the foot. The technology has significant clinical applications including diabetic neuropathy, edema and ulcers; peripheral artery disease; chronic venous insufficiency; lymphedema; venous thromboembolism; and other leg and foot conditions resulting from circulatory issues. The Company seeks a strategic partner, with both brand and distribution channels which will enable its platform technology to be fully commercialized.

### The Platform Technology

The Company has developed a non-invasive technology platform to enhance blood circulation in the legs and feet. The technology is applicable to any situation where increasing lower extremity circulation is desired.



Many chronic diseases can be prevented or limited in their severity through improved blood flow. However, delivering this therapy has proven to be challenging in the past due to device costs, usability, and portability, among others. The Company has successfully overcome these challenges and has developed a disruptive technology platform that serves as a preventative therapy and an efficacious treatment for over a dozen different indications. This has been proven in both the market and clinical testing. Being mobile, lightweight and rechargeable, the patented technology fills the prescriptive gaps in every disease stage, delivering the systemic physiological benefit of improved micro-circulation.

The Company has successfully completed and published five, third-party conducted and peer-reviewed clinical studies evaluating blood flow and health improvement from using this medical device. These tests confirmed the technology as an effective option for treating diabetic foot complications (reducing neuropathy 15%; improving gait & balance up to 32%), enhancing lower extremity circulation, improving recovery time, and preventing VTE.

### Company's Disruptive Technology Advantages

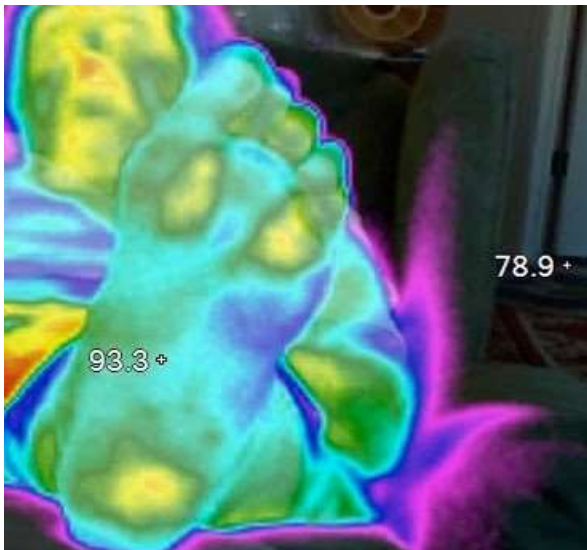
- Wearable, self-contained device for increasing lower extremity perfusion
- Light weight system weighing less than 4 ounces and contained in an insole
- Completely mobile making it ideal for out-patients and in-home uses
- Mobile App controlled, digital monitoring & planned capability with IoT
- This is the only bio-mechanical portable device that has been shown to:
  - Reduce neuropathy and edema
  - Increase blood circulation and functional perfusion in diabetes
  - Be portable and proven based on third-party test results
  - Be contained in an insole and treat patients anywhere
  - Results in no side effects which are associated with pharmaceuticals



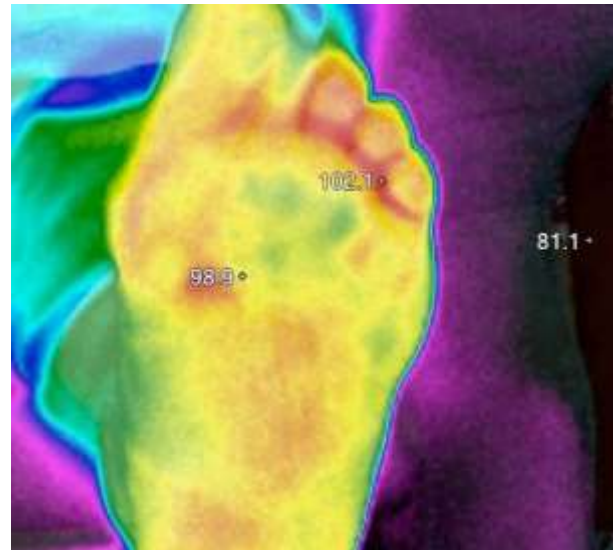
# Medical Device for Enhanced Blood Circulatory Perfusion

*Device is small enough to be contained in an insole and treat a patient anywhere while seated*

## Increased Vasodilation & Perfusion



*Prior To Using Device (84 year-old patient)*



*After Using Device (9 degree increase in 20 minutes)*



*Device only on left leg of two athletes.*



*Note the vasodilation after only 15 minutes of use.*

- Device increases circulation by cyclically compressing the plantar venous plexus through a pad pressed into the arch of the foot.
- Approximately 25cc of blood is pumped through the deep veins of the legs at regular intervals
- Increased shear stress on the endothelium leads to microvascular vasodilation by:
  - Releasing Nitric Oxide
  - Increasing Prostacyclin
  - Increasing Hyperpolarizing Factor
  - Decreased Endothelin

