

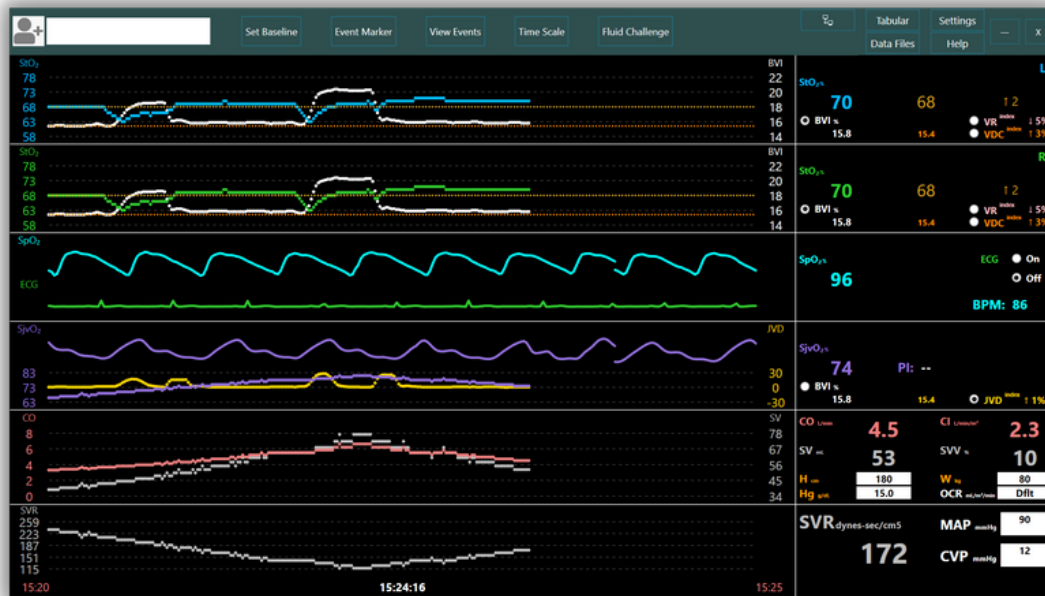


# PerfusionM

2023

Mespere  
LIFE SCIENCES

PerfusionM offers leading-edge, noninvasive, and continuous venous, arterial, and tissue oximetry monitoring solutions to assist perfusionists in the OR, ICU, and beyond in addressing unmet critical clinical needs.



## PARAMETERS

- Regional Tissue Oximetry (StO<sub>2</sub>)
- Vascular Resistance (VR)
- Vasodilation/Constriction (VDC)
- Arterial Oximetry (SpO<sub>2</sub>)
- Heart Rate (BPM)
- Venous Oximetry (SjvO<sub>2</sub>)
- Jugular Vein Distensibility (JVD)
- Cardiac Output (CO)
- Cardiac Index (CI)
- Stroke Volume (SV)
- Stroke Volume Variation (SVV)
- Systemic Vascular Resistance (SVR)
- Mean Arterial Pressure (MAP)
- Central Venous Pressure (CVP)

## Product Highlights

Addresses 3 Key Monitoring Aspects:

### Perfusion

- Venous Oxygen Saturation
- Arterial Oxygen Saturation
- Regional Tissue Saturation

### Adequate Flow

- Cardiac Output
- Stroke Volume
- Tissue Blood Volume

### Cardiac Function

- Arterial Waveform
- Venous Waveform
- ECG Waveform

## Cost-Effective

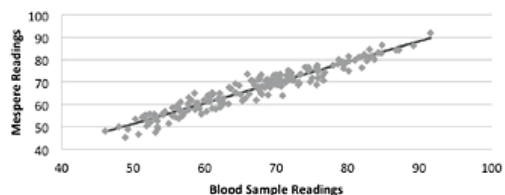
Reusable sensors provide exceptional value as a cost-effective alternative to traditional one-time-use or invasive sensors, broadening their usage beyond the operating room.

## Plug & Play Connectivity

Communication to existing perfusion and anesthesia monitoring systems enabling physicians to make well-informed and timely decisions.

All of Mespere LifeSciences' technologies have been validated against the current gold standards, proving them to be clinically equivalent substitutes, instilling confidence in clinicians.

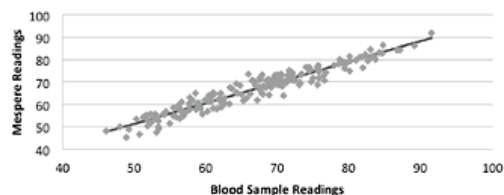
### REGIONAL OXYGEN SATURATION (STO2)



**Comparison:** Invasive blood samples compared by co-oximeter

**Results:** Trending Accuracy  $\pm 1.5\%$   
Absolute Accuracy  $\pm 4.9\%$

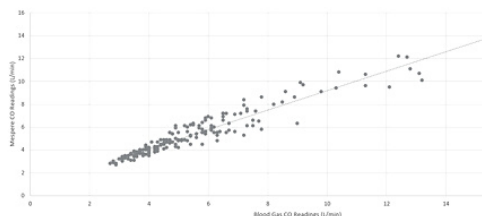
### VENOUS OXYGEN SATURATION (SIVO2)



**Comparison:** Invasive blood samples compared by co-oximeter

**Results:**  $\pm 2\%$

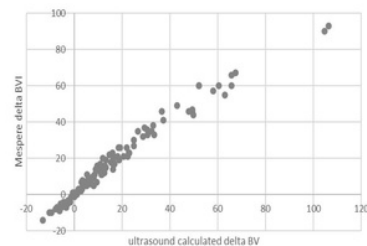
### CARDIAC OUTPUT (CO)



**Comparison:** Blood Gas Fick Principle

**Results:**  $\pm 0.71$  L/min

### BLOOD VOLUME INDEX (BVI)



**Comparison:** CSA determined by ultrasound

**Results:**  $\pm 4.3\%$ , where % = ml/dl

## Common Clinical Applications



- ECMO
- Cardiac and Vascular Surgery
- Acute Respiratory Distress Syndrome (ARDS)
- Mechanical Ventilation
- Septic and Cardiogenic Shock
- Preeclampsia

## System Configuration

### Monitor

12, 15, or 19-inch monitor preloaded with the operating system, and comes with a VESA mount or monitor stand

### Sensors

Reusable cerebral, venous, and arterial oximetry sensors

### Single-Use Adhesives

Consumable adhesive to adhere the sensor(s) to the patient

### Accessories




Required communication cables for data transmission to third party perfusion and anesthesia monitoring systems

## Pricing Model

Mespere LifeSciences offers highly flexible business models that can be customized to meet the unique and evolving needs of hospitals, ensuring that our technology is always aligned with your specific requirements.



Call or contact Mespere LifeSciences to inquire about pricing or product evaluations

 180 Columbia Street W, Waterloo, Ontario, Canada N2L 3L3  
 [info@mespere.com](mailto:info@mespere.com)  
 [www.mespere.com](http://www.mespere.com)