

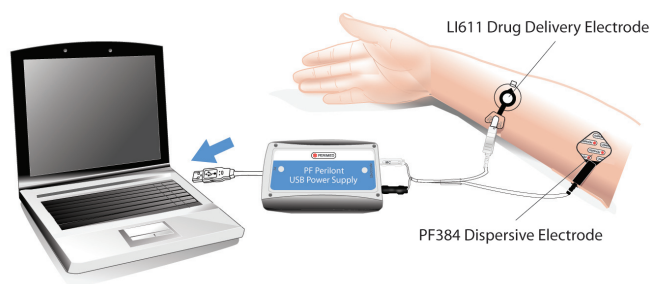
PeriIont Micropharmacology System

Combining Iontophoresis with Blood Perfusion Measurements

The **Perilont Micropharmacology System** is an excellent choice for combining iontophoresis with blood perfusion imaging or blood perfusion monitoring using either the **PeriCam PSI System**, the **PeriScan PIM 3 System** or the **PeriFlux System 5000**.

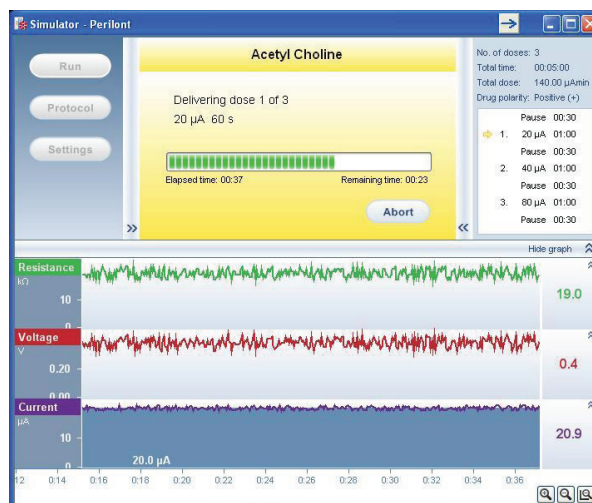
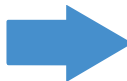
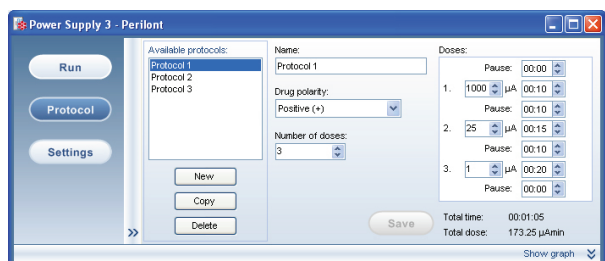
The **Perilont Micropharmacology System** enables non-invasive introduction of minute volumes of drugs into the vascular bed. With vasoactive drugs such as Acetylcholine or Sodium Nitroprusside, it is possible, for example, to study the endothelial function in patients with different vascular conditions.

The iontophoresis technique is based on the principle that an electric current will force drug ions in solution to migrate across the skin barrier according to their electrical charges. Combined with the laser Doppler or laser speckle techniques, iontophoresis has proven to be a valuable tool to investigate the underlying mechanisms of vascular disease.



To perform iontophoresis, the drug of interest is applied to a Drug Delivery Electrode. A Dispersive Electrode is positioned approximately 15 cm from the Drug Delivery Electrode, and the iontophoresis is initialized by connecting the **PF 751 Perilont USB Power Supply** and starting the appropriate protocol.

The **Perilont Software** is the software used to operate the **PF 751 Perilont USB Power Supply**.



- ✓ Fully automated iontophoresis procedure
- ✓ Create and save protocols
- ✓ Clear overview of present step
- ✓ Graphs showing voltage, resistance and current

The **Perilont Micropharmacology System** is available for both blood perfusion monitoring and blood perfusion imaging:

	PF 750 <i>Blood Perfusion Monitoring</i>	LI 760 <i>Blood Perfusion Imaging</i>
<i>PF 751 Perilont USB Power Supply (including connections)</i>	✓	✓
<i>Perilont Software</i>	✓	✓
<i>LI 611 Drug Delivery Electrode *</i>		✓
<i>PF 383 Drug Delivery Electrode *</i>	✓	
<i>PF 384 Dispersive Electrode</i>	✓	✓
<i>PROBE 481 Iontophoresis Probe - Laser Doppler probe, including heating element. Allows for temperature control and improved reproducibility.</i>	✓	
<i>Calibration Device for Iontophoresis Probe</i>	✓	
<i>Alcohol Wipes, Syringe (1mL), Plastic tips for syringe</i>	✓	✓

* The Drug Delivery Electrodes are disposable to avoid any risk of cross-contamination between tests or cross-infection between patients.



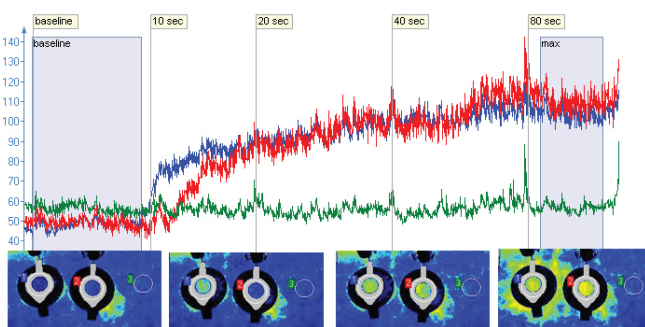
The Perilont Micropharmacology System.



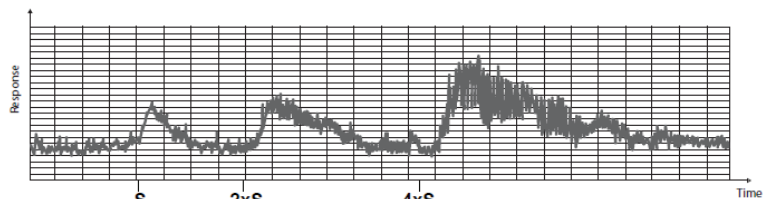
Iontophoresis in combination with blood perfusion imager PeriScan PIM 3 System.



Iontophoresis in combination with blood perfusion monitor PeriFlux System 5000.



Typical dose-response related vasodilatation as a response to ACh (blue) and SNP (red) - blood perfusion imaging - PeriCam PSI System.



Typical dose-response related vasodilatation as a response to, for example, ACh (S) - blood perfusion monitoring - PeriFlux System 5000.

Due to Perimed's commitment to continuous improvement of our products, all specifications are subject to change without notice.

For more information please contact Perimed AB

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