

## Detect PAD/CLI ... Direct Patient Care



### **Point-of-Care PAD Test**

automated, fast, accurate assessment

### **SmartWorksheets™**

efficient online documentation

### **Interpret Results**

from any internet connected device

### **Secure Reports**

HIPAA compliant

### **Workflow**

streamlines documentation,  
supports better patient management

*Sensilase System provides noninvasive vascular testing of both the micro- and macrocirculation at any point-of-care*

***Facilitates Collaborative Care Partnerships  
between Primary Care Physicians  
& Vascular Specialists***

# SensiLase® System



## SensiLase System Technology

The SensiLase System is the optimal technology to support diagnosis of patients with Peripheral Arterial Disease/Critical Limb Ischemia (PAD/CLI).

The fully automated system is accurate in detecting the presence and severity of disease – even in patients with medial calcifications, incompressible arteries, mild edema, necrotic tissue or absence of toes.

### Rapid test time (5-7 minutes)

- Microcirculation – Skin Perfusion Pressure (SPP), a measurement with Reactive Hyperemia
- Macrocirculation – Pulse Volume Recording (PVR)

### Superior test for PAD/CLI detection

- Numerous publications describe the use of Skin Perfusion Pressure and substantiate performance

### Customizable data management and transmission

- Detailed PDF reports include: indications, referring physician, reading physician, history, study date, data, observations
- SmartWorksheets enable rapid study interpretation; no need to re-enter data
- Configurable electronic transmission of data results to best support practice's documentation / billing requirements and continuous quality improvement (CQI)
- Easily integrates into clinic's electronic medical records (EMR)

## SensiLase System Tests

### Skin Perfusion Pressure (SPP) for microcirculatory assessment:

The SPP is the blood pressure required to restore microcirculatory or capillary flow after inducing controlled occlusion and release (reactive hyperemia), providing meaningful tissue perfusion data at point-of-care.

### Pulse Volume Recording (PVR) for macrocirculatory assessment:

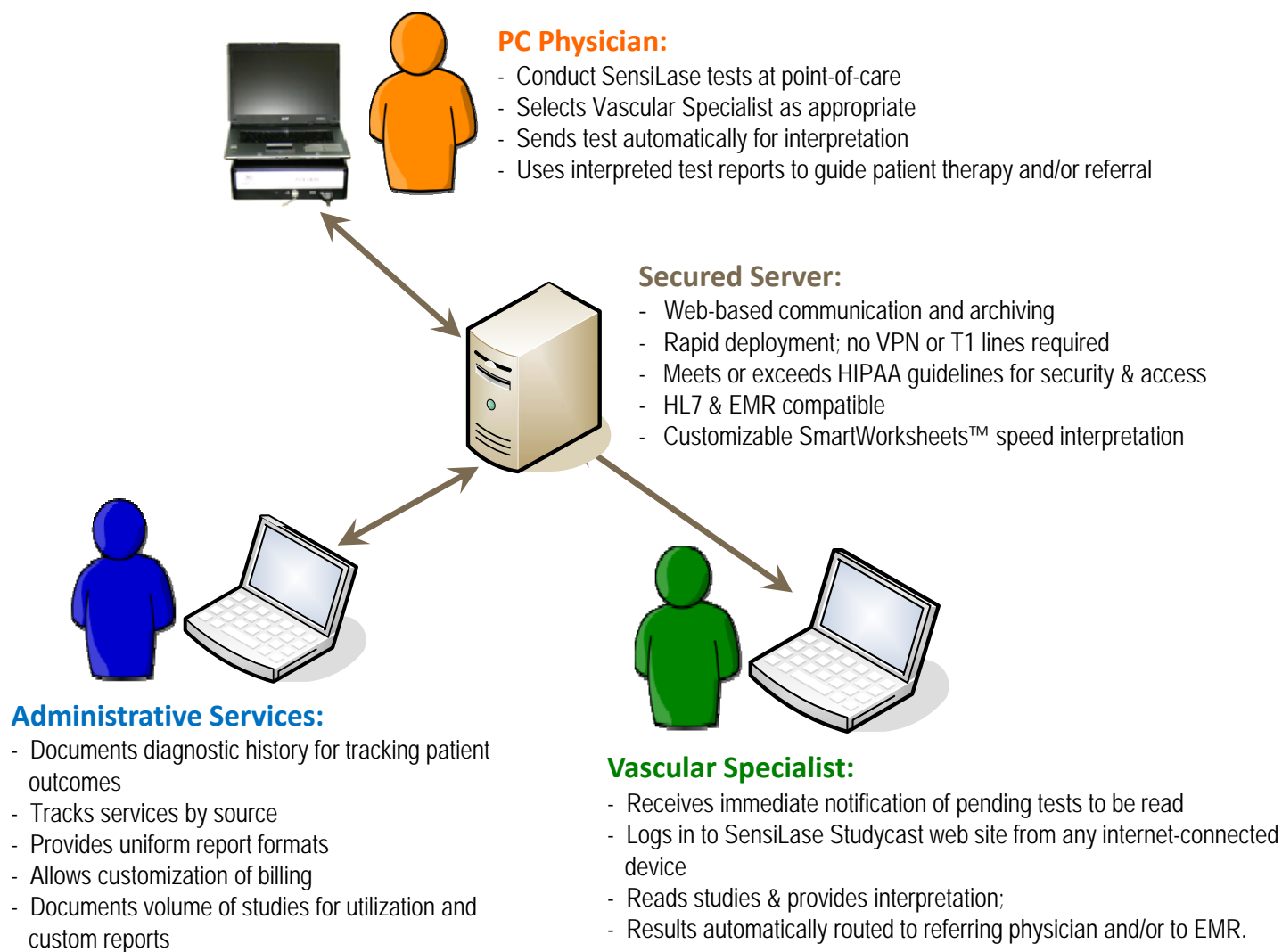
The PVR uses air plethysmography to evaluate changes in arterial blood with each pulse and aids in determining the level and severity of disease in the extremities.

Use the SensiLase System measurements to:

- Assess and diagnose PAD/CLI
- Predict wound healing potential
- Monitor perfusion pre / post vascular intervention or surgery
- Determine optimal amputation level

## Software-as-a-Service permits multiple users to access SensiLase System data

- Expedites patient referrals for those requiring vascular therapy
- Implements tangible network opportunities allowing a “multi-disciplinary approach” for identifying and treating patients with PAD/CLI
- Offers clinical and economic benefits to both referring physicians and vascular specialists
- Captures utilization data and measurable performance metrics



## Reimbursement\*

### 93922 – Limited bilateral noninvasive physiologic studies of upper or lower extremity arteries:

- ABI plus bidirectional, Doppler Waveform recording and analysis at 1-2 levels, or
- ABI plus volume plethysmography at 1-2 levels, or
- ABI with Transcutaneous oxygen tension measurements at 1-2 levels

### 93923 – Complete bilateral noninvasive physiologic studies of upper or lower extremity arteries, 3 or more levels ...

- ABI plus segmental blood pressure measurements with bidirectional Doppler waveform recording and analysis at 3 or more levels, or
- ABI plus segmental volume plethysmography at 3 or more levels, or
- ABI plus segmental Transcutaneous oxygen tension measurements at 3 or more levels

#### ... or single level study with provocative functional maneuvers

- Measurements with postural provocative tests or
- Measurements with reactive hyperemia (**Sensilase SPP**)

\* Centers for Medicare and Medicaid Services – January 2011; Note: All ABI's above prescribed to be performed at distal posterior tibial and anterior tibial/dorsalis pedis arteries

## Clinical Publications (partial listing – see website for complete listing)

### PAD/CLI Detection

- **Bailey & Schechter** "TcPO<sub>2</sub> and SPP Evaluation: A Direct Comparison of Technologies for the Assessment of Wound Healing and Vascular Disease Detection" *Symposium on Advanced Wound Care/Wound Healing Society 2009*, WHS Podium & Poster: WHS#32
- **Castronuovo, et al** "Skin Perfusion Pressure Measurement is Valuable in the Diagnosis of Critical Limb Ischemia"; *Journal of Vascular Surgery* 1997; 26:629-637
- **Kanetaka, et al** "Laser Doppler Skin Perfusion Pressure in the Assessment of Raynauds Phenomenon" *European Journal of Vascular and Endovascular Surgery* 2004; 27: 414-416
- **Kondo, et al** "Laser Doppler Skin Perfusion Pressure in the Diagnosis of Limb Ischemia in Patients with Diabetes Mellitus and/or Hemodialysis"; *International Angiology* 2007; 26 (3):258-261
- **Yamada, et al** "Clinical Reliability and Utility of Skin Perfusion Pressure Measurement in Ischemic Limbs - Comparison with Other Noninvasive Diagnostic Methods" *Journal of Vascular Surgery* 2008; 47:318-323

### Pre- Post Intervention

- **Akahori, et al** "Magnitude of the Improvement in Skin Perfusion Pressure is as Important as Skin Perfusion Pressure Immediately Following Intervention for Predicting Limb Salvage in Critical Limb Ischemia"; Abstract ACC 2007 56<sup>th</sup> Annual Scientific Session (1008-79)
- **Iida, et al** "Successful Revascularization of at Least a Branch of the Tibial Artery to the Pedal Arch Contributes Limb Salvage in Critical Limb Ischemia"; Abstract; Oral Presentation ACC 2007 56<sup>th</sup> Annual Scientific Session (1008-78)
- **Kawarada, et al** "Retrograde Crossing through the Pedal Arch for Totally Occluded Tibial Artery" *Journal of Interventional Cardiology* 2008; 21:342-346

### Wound Healing Prediction

- **Bailey & Schechter** "A Time-Motion Study of Paired Technologies Evaluating for Wound Healing Potential" *Symposium on Advanced Wound Care/Wound Healing Society 2009/* Poster # CR-044
- **Lo, et al** "Prediction of Wound Healing Outcome in 100 Patients Using Skin Perfusion Pressure and Transcutaneous PO<sub>2</sub>" *Wounds* 2009; 21(11):310-316
- **Schechter & Bailey** "Clinical Utility Evaluation in Lower Extremity Wound Healing Prediction" *Undersea Hyperbaric Medical Society ASM*, 2008; Poster #67

This material is for a general overview of product information; see operator's manual for detailed information regarding instructions for use, indications, contraindications, warnings and precautions. Clinical studies are available upon request.

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