



# SensiLase System Report



## John Demo

December 17, 2009

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**ID:** 211070877 **Technologist:** BrandonR  
**DOB:** 1957-08-10 **Referring:** Unassigned VASAMED  
**Gender:** M **Reading:** Vasamed Reading, MD  
**Height:**  
**Weight:**

### Reference Information

#### Symptomatic Classification - PAD\*

St	Fontaine Stages		Rutherford Category	
	Clinical	Gr	Cat	Clinical
I	Asymptomatic	0	0	Asymptomatic
Ila	Mild Claudication	I	1	Mild Claudication
Ilb	Mod/Severe Claudication	I	2	Moderate Claudication
III	Ischemic Rest Pain	I	3	Severe Claudication
		II	4	Ischemic Rest Pain
IV	Ulceration, Gangrene	III	5	Minor Tissue Loss
		III	6	Major Tissue Loss

\*TASC Working Group, J Vas Surg, 2000, 31(1): S1-S296

#### S(AD) Foot Ulcer Classification\*\*

Gr	Area	Depth	Sepsis	Arteriopathy	Denervation
0	Skin intact	Skin intact	No infection	Pedal pulses palpable	Pinprick sensation VPT Normal
1	<10 sq mm	Skin, subcutaneous tissues	Superficial: Slough or exudate	Diminished pulses, or one absent	Reduced or absent pinprick sensation, PT raised
2	10-30 sq mm	Tendon, joint, capsule, periosteum	Cellulitis	Both pedal pulses absent	Neuropathy dominant: palpable pedal pulses
3	>30 sq mm	Bone and/or joint spaces	Osteomyelitis	Gangrene	Charcot Foot

\*\*Macfarlane RF, Jeffcoate WJ. Classification of Foot Ulcers: The S(AD) System. The Diabetic Foot, 1999;2(4):12331

#### Vascular History:

#### Smoking History:

#### Myocardial Infarction:

#### Blood Pressure:

#### Diabetic:

#### Wound:

#### Skin Condition at Extremities:

#### Current Sym./Reason for Visit:

**Comments on Vasc Test Report:** Left limb is normal, Right Leg requires intervention, refer patient to vascular surgeon

**CPT Code(s):** 93923

**ICD-9 Code(s):** 111

**Pack Years:** 0

**Packs/Day:**0

**Myocardial Infarction Date:**

**MAP:**

**Diabetes Treatment:**

**Wound Description:**

### Findings:

Pulse volume recording (PVR) indicates upstroke is rapid and of normal steepness. Peak has a normal sharp maximum during systole. Downstroke is gradual and of normal steepness. Dicrotic notch is normal and located midway in the down slope.

Skin perfusion pressure (SPP) values are correct as indicated from the machine/technician. Skin perfusion pressure (SPP) values are consistent with absence of PAD. Skin perfusion pressure (SPP) suggests potential for wound healing is high if compliant.

### Conclusions:

Macro- and micro-vascular test results are normal. Perfusion is sufficient to support wound healing.

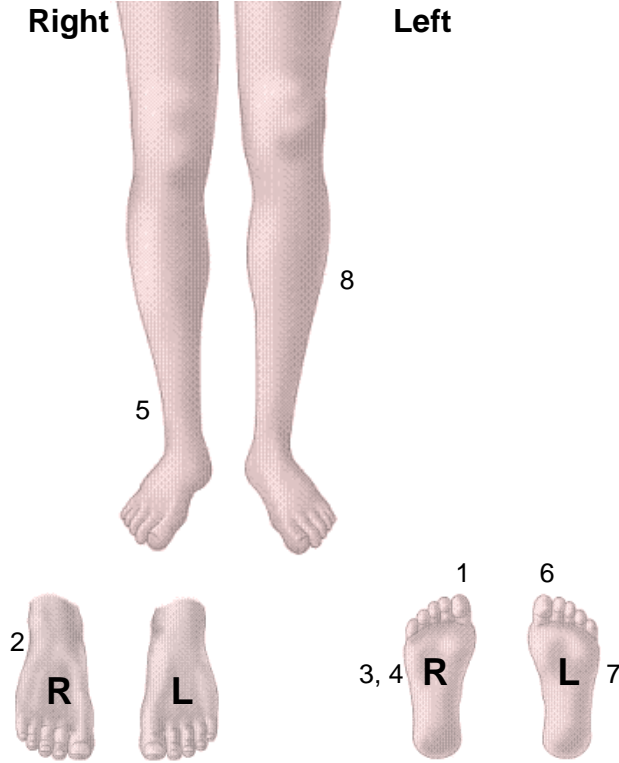
June 01, 2011 10:27 AM

Vasamed Reading, MD

Electronically Signed on CoreWeb

### SensiLase Test Summary

#### SPP Test Summary



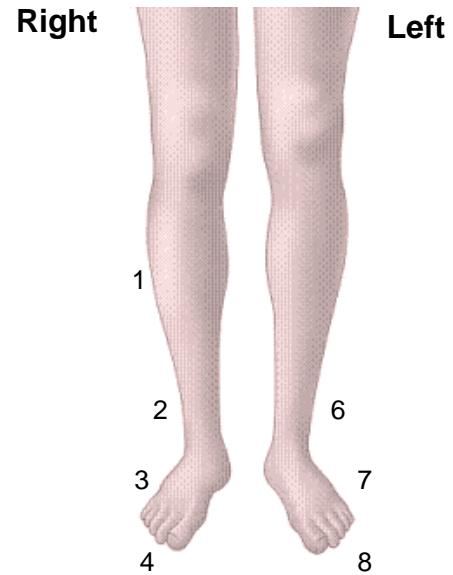
#### SPP Measurements

(values in mmHg)

1.	Right Digit - Hallux	28
2.	Right Foot - Dorsal	45
3.	Right Foot - Medial Plantar	44
4.	Right Foot - Lateral Plantar	30
5.	Right Ankle - Medial	70
6.	Left Digit - Hallux	70
7.	Left Foot - Medial Plantar	75
8.	Left Calf	75

Extremities Warmed

#### PVR Test Summary



#### PVR Measurements

1.	Right Calf
2.	Right Ankle
3.	Right Foot
4.	Right Digit - Hallux
5.	Right BTK
6.	Left Ankle
7.	Left Foot
8.	Left Digit - Hallux

Extremities Warmed

#### Interpretation of SPP and ABI

SPP	ABI	Interpretation
<30		CLI, non healing wound
>30		Wound healing likely
	< .3	Severe disease
	.3-.5	Moderate disease
	.5-.9	Mild disease
	.9-1.3	Normal

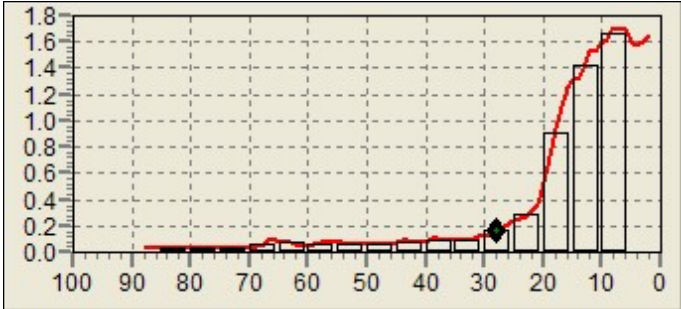
\* TASC Working Group, JVS, 2000, 31:S270  
McDermott MM et al. J Gen Int Med 1994;9:445-9

#### Definitions and classifications of blood pressure levels

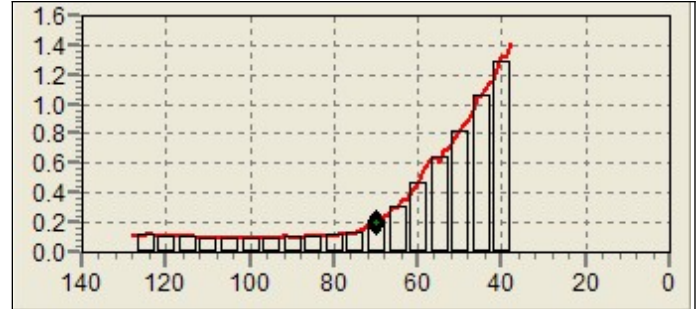
Category	Systolic	Diastolic
Optimal	<120	<80
Normal	120-129	80-84
High normal	130-139	85-89
Grade 1 hypertension (mild)	140-159	90-99
Grade 2 hypertension (moderate)	160-179	100-109
Grade 3 hypertension (severe)	>=180	>=110
Isolated systolic hypertension	>=140	<90

2003 ESH/ESC Hypertension Guidelines J. Hypertension 2003, Vol 21 No. 10, p. 1780

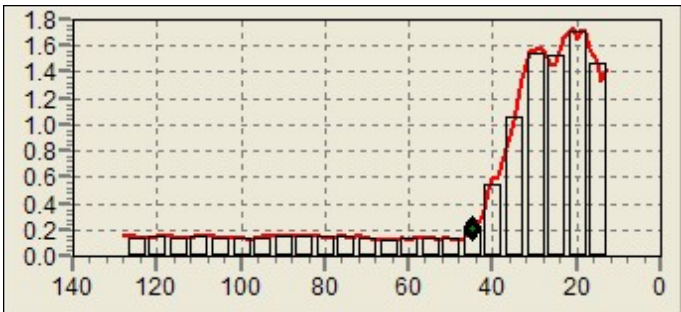
### SensiLase Skin Perfusion Pressure Results



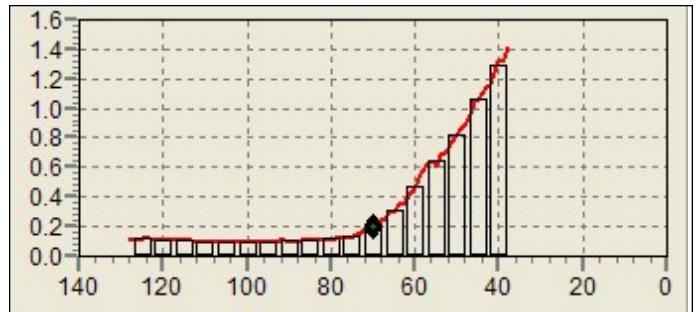
Right Digit - Hallux 28



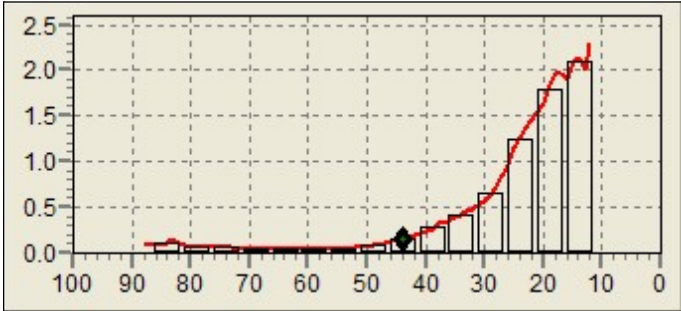
Right Ankle - Medial 70



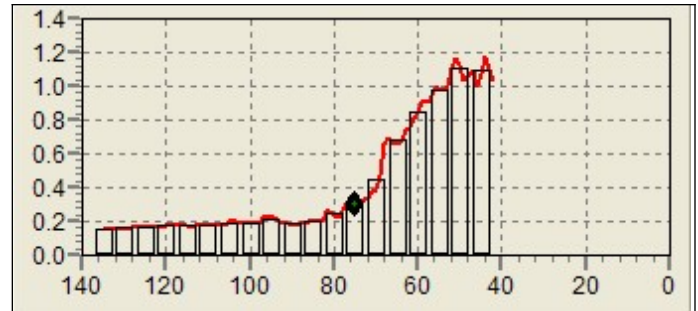
Right Foot - Dorsal 45



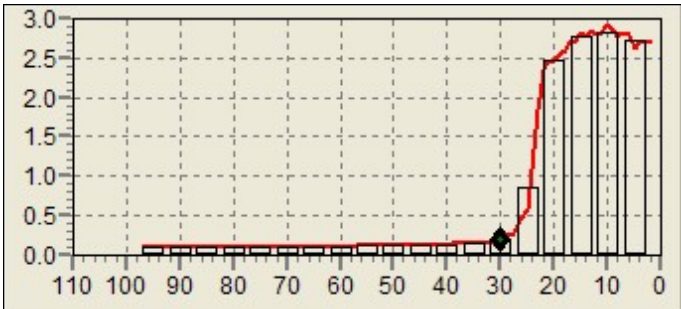
Left Digit - Hallux 70



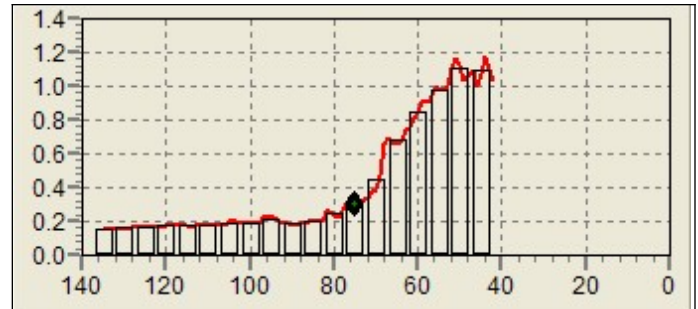
Right Foot - Medial Plantar 44



Left Foot - Medial Plantar 75

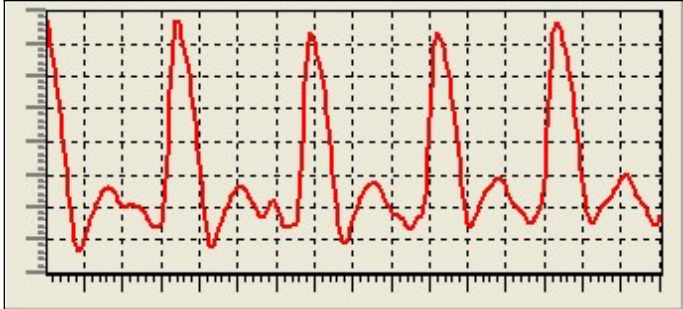


Right Foot - Lateral Plantar 30

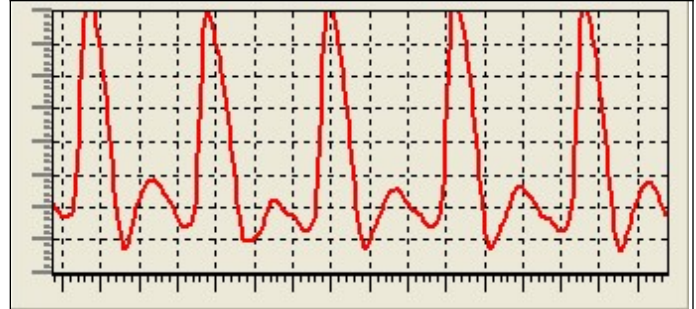


Left Calf 75

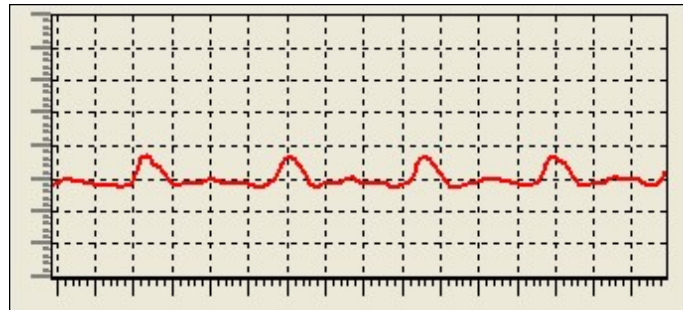
SensiLase Pulse Volume Recording Results



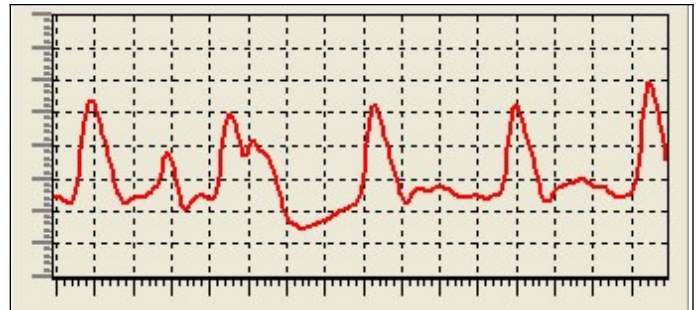
Right Calf 63 mmHg Amp 63.0 Gain= 1.0



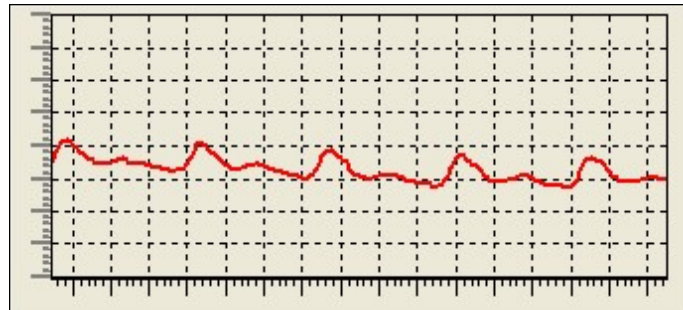
Right BTK 64 mmHg Amp 78.0 Gain= 1.0



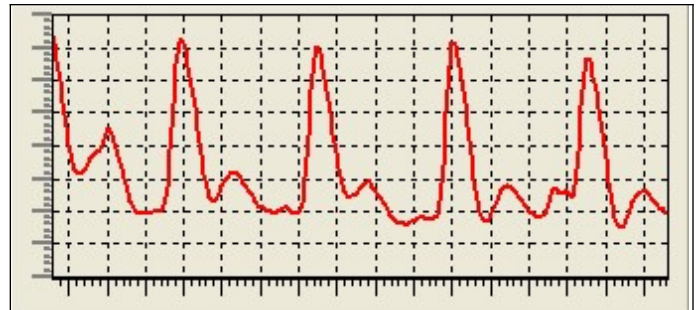
Right Ankle 64 mmHg Amp 10.0 Gain= 1.0



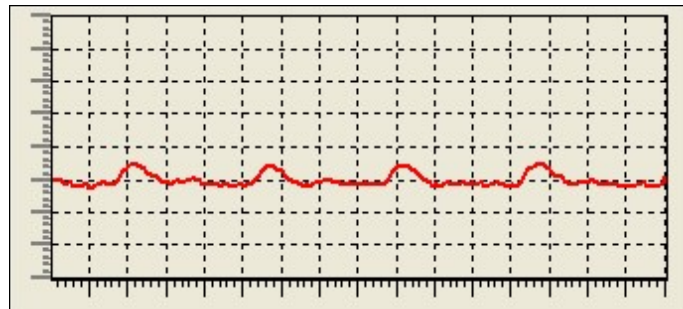
Left Ankle 62 mmHg Amp 36.0 Gain= 1.0



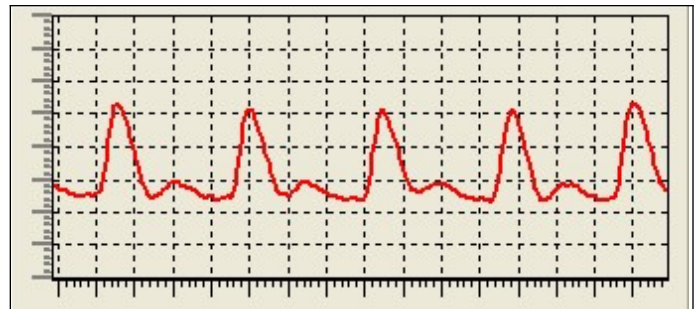
Right Foot 63 mmHg Amp 10.0 Gain= 2.5



Left Foot 64 mmHg Amp 57.0 Gain= 2.5



Right Digit - Hallux 45 mmHg Amp 8.0 Gain= 5.0



Left Digit - Hallux 45 mmHg Amp 30.0 Gain= 5.0

\*Indicates Non-Standard PVR Gain