

Nicolet™ VersaLab™ LE & SE

Vascular Doppler Systems



The Perfect Portable Solution

The Nicolet VersaLab™ LE & SE are portable, battery or line-operated Doppler systems for evaluation of the peripheral vasculature. Crisp, clear Doppler sound is now complemented with a display and printout to make documentation for reimbursement fast and convenient.

Compact, Economical and Versatile

The VersaLab LE & SE lets you perform basic vascular testing. This bi-directional Doppler has a built-in printer for fast and easy documentation. And best of all, the compact VersaLab LE & SE is loaded with diagnostic features at a value-added price.

Bi-Directional

The VersaLab LE & SE is available with bi-directional 4 or 8 MHz frequency, continuous wave Doppler transducers. You can select the optimum frequency for the peripheral application of your choice.

Documentation for Reimbursement

Now you can hear and see the results from your Doppler testing procedures. The VersaLab LE & SE's built-in printer provides fast, complete and accurate documentation. A unique image scrolling feature allows you to review up to 50 seconds of data and choose the ideal waveforms to document the patient's condition. Other portable systems don't always offer the flexibility to preview the printout helping to eliminate wasted time and paper.

Pertinent information appears on the printout: date, time, probe frequency and settings, velocity and various calculations. Documentation is complete with room for examiner's comments. This comprehensive documentation aids in reimbursement, allows for placement in the patient's chart and makes repeat studies for follow-up or research purposes easier.

Versatile and accurate peripheral vascular evaluation



Portable and Convenient

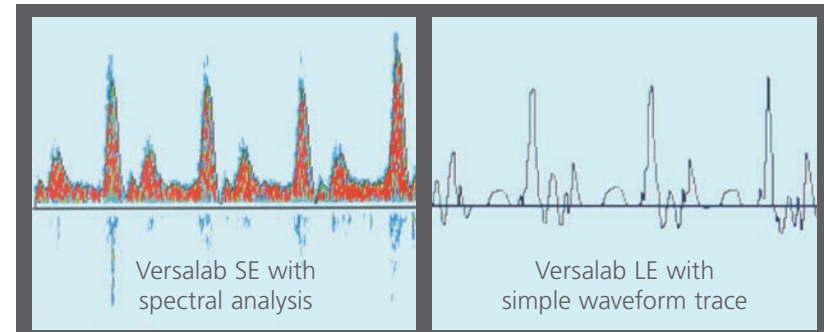
The VersaLab LE & SE systems weigh a mere 1.9 kg (4.1 pounds) and are battery or line operated for the ultimate in portability and convenience. A tilt-stand allows for wall mounting or desktop use with adjustment for the perfect viewing angle. The optional roll stand offers even greater portability and security within the office or hospital.

Accurate Visualization and Quantification

The VersaLab portable Doppler systems are available in two models. The simple waveform traces on the VersaLab LE clearly indicate the peak or mean blood flow profile. The VersaLab SE, with spectral analysis, displays comprehensive information about all components of the blood flow profile. It allows you to quickly delineate venous from arterial flow, and accurately indicate conditions such as turbulence. Both systems offer accurate visualization and quantification of blood flow parameters including velocity, directionality and a host of calculated measurements.

Benefits of Color Spectral Display

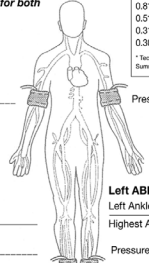
- Review all frequency components of blood flow profile.
- Visualize turbulence and other flow disturbances.
- Determine and document the quality of flow.
- Quickly distinguish arterial from venous signals.



Exceptional Ownership Experience

Nicolet Brand Products captures the knowledge and expertise of three companies (Imex, Nicolet Vascular and Nicolet Biomedical) representing over five decades of ingenuity and innovation. A leading manufacturer of hand-held and desktop Dopplers for obstetric and vascular applications, we strive to build upon our hard-earned reputation and continue to meet the rigorous standards for quality and reliability that our customers have come to expect. Nicolet VersaLab follows in the Natus tradition of superior customer service. The VersaLab is manufactured in our ISO 13485 certified facility and is covered by a 1-year parts and labor warranty against manufacture defects.

Fast Facts on ABIs

Ankle/Brachial Index (ABI) Screening Form		Date:
Patient Name: _____ Facility Performing Test: _____		
Patient Number: _____		
Risk Factors: Age over 50 <input type="checkbox"/> High Fat Diet <input type="checkbox"/> Diabetes <input type="checkbox"/> Cigarette/Tobacco Use <input type="checkbox"/> High Blood Pressure <input type="checkbox"/> Inactive Life Style <input type="checkbox"/> High Cholesterol <input type="checkbox"/> Impotence <input type="checkbox"/> Previous Vascular Surgery <input type="checkbox"/> Overweight <input type="checkbox"/> Previous Stroke or TIA <input type="checkbox"/> Family history of heart disease <input type="checkbox"/>		Current Symptoms: Claudication (leg pain during walking which disappears with rest) <input type="checkbox"/> Numbness, Tingling <input type="checkbox"/> Cold Hands or Feet <input type="checkbox"/> Extremity Weakness <input type="checkbox"/> Ulcerations <input type="checkbox"/> Limb Hair Loss/Absence <input type="checkbox"/> Skin Color Changes <input type="checkbox"/> Trophic Nails <input type="checkbox"/>
Notes: _____		
Ankle/Brachial Index (ABI) Results (Note: Use the higher arm pressure for both the left and right ABI calculations.) <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>Pressure: _____</p> <p>Pressure: _____</p> </div> <div style="text-align: center;"> <p>Right ABI</p> <p>Right Ankle Pressure = _____ mmHg</p> <p>Highest Arm Pressure = _____ mmHg</p> <p>Pressure: _____</p> </div> <div style="text-align: center;"> <p>Left ABI</p> <p>Left Ankle Pressure = _____ mmHg</p> <p>Highest Arm Pressure = _____ mmHg</p> <p>Pressure: _____</p> </div> </div> <div style="margin-top: 10px;"> <p>Example: $\frac{\text{Ankle Pressure}}{\text{Brachial Pressure}} = \frac{125 \text{ mmHg}}{114 \text{ mmHg}} = 1.09$</p> </div>		
<div style="display: flex; justify-content: space-between;"> <div> <p>Nicolet®</p> <p><small>To order this report form, refer to catalog # ABI12 and contact us: toll-free: (877) 842-7970 • ph: (202) 431-9400 • fax: (800) 939-4939 natus.com • golden.customercare@natus.com</small></p> </div> <div> <p>natus. neurology</p> </div> </div> <p><small>© 2013 Covidien Corporation or one of its subsidiaries. All rights reserved. M8710 Rev 00 (01/10/11)</small></p>		

The ABI Exam

- The Ankle/Brachial Index (ABI) is a systolic blood pressure comparison between the arms and ankles.
- This procedure is similar to taking a standard blood pressure, but a Nicolet Doppler is used to listen to the blood flow instead of a stethoscope.
- You only need to determine the systolic pressures for this simple procedure.

Why Do an ABI Exam?

- It is a fast, effective tool for screening for Peripheral Arterial Disease (PAD).
- It is non-invasive, easy, and affordable.
- Often, an ABI exam is recommended for patients with the following risk factors:
 - 65+ years old
 - high blood pressure
 - inactive or bedridden
 - family history of heart attack or stroke.
 - diabetic
 - overweight
 - high cholesterol

Peripheral Arterial Disease

(PAD) A walking time bomb²:

- 8-12 million people in the USA alone are living with PAD.³
- PAD sufferers have a five-fold risk of death from heart attack or stroke.³
- Diabetic patients are at an even higher risk.³

This is why the American Diabetes Association (ADA) December 2003 Consensus Statement recommends that anyone over the age of 50 with Diabetes be screened for PAD. Screening is also recommended for diabetic patients under 50 with other risk factors such as smoking, high blood pressure, high cholesterol or having diabetes for 10 years or more.¹

1 Reference:
Daigle, R. J. BA, RVT.
Techniques in Noninvasive Vascular Diagnosis.
Summer Publishing, 2002

2 Reference:
Alan Hirsch, MD
Peripheral Arterial Disease: Are You a Walking Time Bomb
February 2003

3 Consensus Statement: American Diabetes Association
Peripheral Arterial Disease in People with Diabetes
DIABETES CARE, Volume 26, Number 12, December 2003

ABI Results

Determine the severity of disease:

ABI Value*	Indication
• 0.96 or Above	Generally Normal
• 0.81 - 0.95	Mild Disease
• 0.51 - 0.81	Moderate Disease
• 0.31 - 0.50	Moderate to Severe Disease
• 0.30 or below	Severe Disease

*Always use the highest ABI value obtained.¹

Ankle/Brachial Index (ABI) Exams

Codes that May be Applicable for Use with VersaLab LE & SE*

CPT Code 93922:

Non-invasive physiologic studies of upper or lower extremity arteries, single level, bilateral (for example, ankle/brachial indices, Doppler waveform analysis, volume plethysmography, transcutaneous oxygen tension measurement).

ICD-9 Codes for Extremity Arterial Studies:

440.0	Atherosclerosis of aorta
440.21	Atherosclerosis of the extremities with intermittent claudication
440.22	Atherosclerosis of the extremities with rest pain
440.23	Atherosclerosis of the extremities with ulceration
440.24	Atherosclerosis of the extremities with gangrene
440.30-440.32	Atherosclerosis of bypass graft of extremities
443.0-443.89	Other peripheral vascular diseases
443.9	Peripheral vascular disease, unspecified

* Please note: ICAVL recommends that you contact the insurance carriers in your area for the most accurate and current reimbursement information.

Ankle/Brachial Index (ABI) Cuff Kits

Nicolet offers cuff kits for performing vascular competency testing. These kits contain a sphygmomanometer, the appropriate size cuffs and support materials to allow you to perform Ankle/Brachial Index test.

ABIV - ABI kit for VersaLab LE/SE:

Sphygmomanometer
10 cm cuffs (4)
Thermal Paper 5 rolls



Technical Specifications

Weight, main unit only	1.9 kg (4.1 lbs.)
Dimensions	31 cm x 23 cm x 7.3 cm (12.2 x 9.1 x 1.9 in.)
Doppler Technology	Continuous Wave (CW) unfocused
	Both 4 MHz and 8 MHz probes available
Battery type	7.2V NiMH, 6x4/5A, rechargeable
Full Charge Life	3 hours
Operating Ambient Temperature	10° C - 40° C (50° F - 104° F)
Graphic Display	320 x 240 pixel; Color or B&W LCD available
Printer	Thermal, 104 mm print width, 832 dots, 8 dots/mm
Printer Paper	Roll, 82 ft, 112 mm wide, thermal (7 year print-out archivability)

Print Speed	12.5 mm/s
Timescales	7.5, 15, 25 mm/s
Speakers	(2) 66 mm, 8W, 0.5 watt
Audio Output	0.5 watt per channel
Headset	3.5 mm jack, 32 ohm
Spectral Response	200 Hz - 10 KHz
FFT (Fast Fourier Transform)	256 point, 10 msec Hamming window
Recharger, INPUT	100 - 250 VAC, 50/60 Hz,
Model WSL170M	
Recharger, OUTPUT	7vDC @ 3.5 A Model WSL170M
Safety Standards	IEC 601-1
Classification	Internally/Externally powered equipment
Classification of Protection	
Against Electrical Shock	Type B

System Configurations

VersaLab LE with:

4 MHz probe	VLL40
8 MHz probe	VLL80
4 & 8 MHz probe	VLL48
8 MHz probe & ABIV Cuff Kit	VLL80A
8 MHz probe, ABIV Cuff Kit, V200 Mounting Bracket & ST3 Roll Stand	VLL80AS
8 MHz probe, V200 Mounting Bracket & ST3 Roll Stand	VLL80S

VersaLab SE with:

4 MHz probe	VLS40
8 MHz probe	VLS80
4 & 8 MHz probe	VLS48

VersaLab LE Int'l with:

4 MHz probe	VLL40I
8 MHz probe	VLL80I
4 & 8 MHz probes	VLL48I

VersaLab SE Int'l with:

4 MHz probe	VLS40I
8 MHz probe	VLS80I
4 & 8 MHz probes	VLS48I

Accessories

Product	Catalog #
4 MHz probe only	BD40
8 MHz probe only	BD80
Power Supply 110-250V	C644
Power Cord, 110V	C645
Power Cord, 220V	C645I
Battery	C633
Printer Paper (Qty. 5 rolls)	A355
Soft-sided Carrying Case	A430
Roll Stand with Basket	ST3
IV Pole/Roll Stand Mount kit	V200
Tilt-stand	ST30
ABI Report Form	ABI12
Ultrasound Gel, 0.25 Liter Bottles (Case of 12 bottles)	A120
T-Spray	A140
Ankle/Brachial/Toe cuff Kit	ABITO
Ankle Brachial cuff kit for VersaLab	ABIV
Toe/Brachial Cuff Kit	TOEK
2.5 cm digit cuff	M20101
1.9 cm digit cuff	M20167
1.6 cm digit cuff	M20178
6.5 cm cuff	XR0020
17 cm cuff	XR0031
2.5 cm toe cuff (for use with XR0013)	XR0089
10 cm cuff	XR0075
12 cm cuff	XR0076
Sphygmomanometer	XR0013

For more information, please contact your Nicolet Distributor or call
877-842-7970, 303-431-9400 (Intl.) or fax 303-431-0429

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