PenVasc

PenVasc is a comprehensive Vascular Information System (VIS) ensuring peak productivity and efficiency in the vascular lab. PenVasc delivers an auto-populated worksheet and direct narrative report generation, and easy integration with your HIS, RIS, PACS and EMR, while managing many aspects of the billing. What's more, PenVasc streamlines critical processes including automatic collection of quality assurance, lab utilization and patient data for accreditation. Deployed at vascular labs throughout the United States, PenVasc VIS solutions optimize efficiency, productivity, workflow and revenue for standalone practices and multi-facility enterprises.

PenVasc Delivers:

- Automated clinical reporting, information tracking, QA and billing tools

- Robust scalable client/server software architecture, fully integrated or free standing

- Integrates with existing PACS or combined solution with PenPACS

- Synchronized image viewer for report generation and review

- Patient and referring physician letters

- Accreditation package (licensed from ICAVL®)

- One-step QA/QC with multiple correlative studies

- Intuitive real-time, auto populated, one screen, one-step data capture, report generation and physician approval

- Software facilitates access from Internet with remote desktop capabilities

- World-class PenCare customer support; available 24/7/365

How PenVasc Works: *Improves Efficiency Providing More Patients with High Quality Care*

- As imaging is completed, the images and DICOM Structured Report (SR) are received by PenVasc VIS.

- PenVasc automatically extracts the SR data and populates the exam template worksheet and calculates any derived fields. The technologist confirms data and releases an automatic PenVasc preliminary narrative report for the physician to review and approve.

- The physician selects preliminary exam from the work-list, confirms impressions and recommendations based on images provided and approves report for automatic distribution to referring physicians and local IT systems. Instant access provided to prior exams and images.
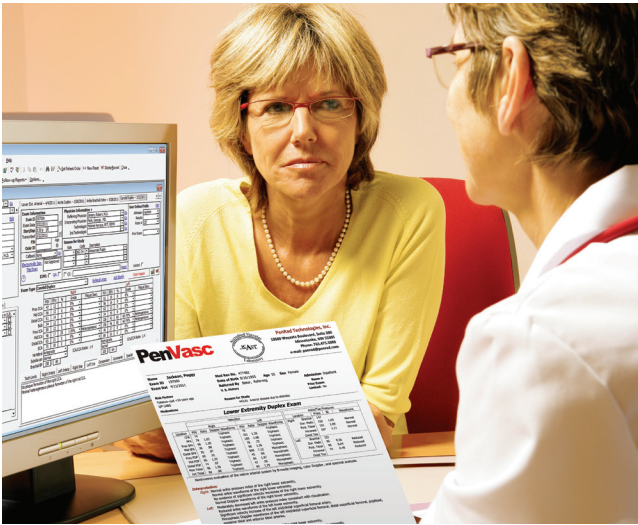
"Since 1999, our team has relied on PenVasc for improved efficiency, standardization and management of clinical data," said Martin Evans, MD, medical director, Vascular Lab, Surgical Associates of Richmond, Richmond, VA.

Solutions for productivity and revenue optimization in radiology workflow
Learn more: penrad.com | **sales@penrad.com** | **763.475.3388**

PenRad™
Read. Report. Track. Manage.

PenVasc Modules

Vascular

- PenVasc optimizes efficiency in the laboratory environment by eliminating handwritten worksheets, dictation and transcription. PenVasc automates data infrastructure of the accredited vascular lab.

- Electronic patient worksheets are automatically populated with patient demographics and exam order information.

- Image information and technical data are automatically incorporated into the worksheet, pending physician approval. Once approved, worksheets are formatted into a one page detailed narrative report, saved to the patient chart and distributed to referring physicians, EMR, PACS, HIS, etc.

Surgical Registry

- The Surgical Registry tracks and correlates surgical outcomes and research data with just a few clicks. Registry includes life-table analysis with definable parameters.

Cardiac

- Report, track and manage patients who have non-invasive cardiac exams. Adult and pediatric echocardiogram worksheets generate narrative reports with a click of a mouse.

Appointment Scheduler

- Schedule call-backs and surgical follow-ups with a click of the mouse.

PenVasc

Accredited Vascular Laboratory ICAVL

PenRad Technologies, Inc.
10580 Wayzata Boulevard, Suite 200
Minnetonka, MN 55305
Phone: 763.475.3388
e-mail: penrad@penrad.com

Name Jackson, Peggy
Exam ID 197359
Exam Dat 3/22/2011

Med Rec No. 477482
Date of Birth 8/16/1955 **Age** 55 **Sex** Female
Referred By Baker, Referring
V. S. History

Admission Inpatient
Room # 123
Equip. Used
Prior Exam:
Limited: No

Risk Factors
Tobacco--quit <10 years ago
S/P CABG
Medications

Reason for Study
362.34 Amaurosis Fugax

Carotid Duplex Exam

Carotid Disease Grades:

Grade	I	II	III	IV	V
PSV	1-125	1-125	126-250	127-650	None
EDV	0-40	0-40	41-100	101-300	None
% Stenosis	1-39	40-59	60-79	80-99	100-100

Exam Data:

Right

PSV	EDV	Grade	Plaque Desc.
50	8	0%	
61	12	0%	
51	8	0%	
34	12	0%	
55	9	0%	
40	11	1-39%	Heterogeneous
72	19	0%	
83		0%	

	PSV	EDV	Grade	Plaque Desc.
Prox CCA	54	12	0%	
Mid CCA	59	14	1-49%	Homogeneous
Distal CCA	54	12	0%	
Bulb	34	10	0%	
Prox ICA	226	66	60-79%	Heterogeneous
Mid ICA	153	28	40-59%	Heterogeneous
Distal ICA	62	21	0%	
ECA	65		0%	

Left

ICA/CCA Ratio	Normal	Intimal Thickening	Normal	ICA/CCA Ratio
1.1	Antegrade	Vertebral	Retrograde	4.2
	150	Brachial BP	100	

Interpretation:
Right: No plaque formation of the right CCA.
Minimal heterogeneous plaque formation of the right mid ICA.
Left: No plaque formation of the left CCA.
Moderate heterogeneous plaque formation of the left proximal ICA; Doppler findings suggests a hemodynamically significant stenosis.

Impression:
Right: 1-39% stenosis of the right mid ICA.
The right verterbral artery flow is antegrade.
Left: 60-79% stenosis of the left proximal ICA with moderate hemodynamic significance based on pulse Doppler criteria.
Subclavian steal with reversed vertebral artery flow direction noted on the left side.

Phil White, M.D.   3/23/2011
Vascular Surgery

Performed By: Jack Johnson, RVT
Transcribed: 4/5/2011

Report Prepared by In Record Time! Vascular Database

Optimize your vascular lab with PenVasc— attend at a 'live' demo.

Visit penrad.com for details.

PenVasc is developed in partnership with In Record Time, LLC