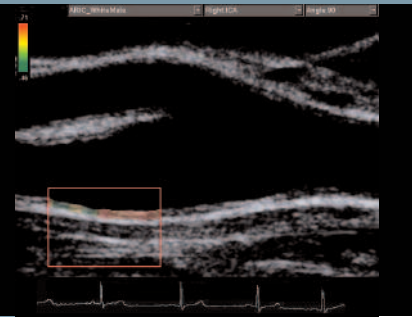


# Assess and Treat Asymptomatic Disease

## REAL SOLUTIONS

Understanding challenges  
Providing answers  
Improving outcomes



syngo® Arterial Health Package (AHP)\* features a semi-automated carotid intima-media thickness (CIMT) measurement with Vascular Age\*\* and Framingham Risk Factors, to help cardiovascular specialists evaluate arterial health. This reliable, non-invasive assessment tool empowers physicians and patients to address atherosclerosis in its earliest stages by optimizing proactive treatment and preventive care. Semi-automated, intuitive, efficient, and easy to use, vascular risk assessment has never been in a simpler package.

## Highlights

### Advanced Risk Assessment

- Derives a semi-automated CIMT measurement incorporated into patient database
- Calculates a Vascular Age with individualized results
- Calculates Distensibility and Elasticity measurements
- Derives a Framingham Risk Factors assessment based on calculated vascular age
- Validated for adult patients, 40-70 years of age with no prior history of cardiovascular disease

### Convenient

- Available across select ACUSON™ ultrasound systems and off the system with syngo® US Workplace
- Delivers comprehensive reports of patient results

### Empowering

- Enables physicians to assess and proactively treat subclinical atherosclerotic disease
- Facilitates monitoring and long-term patient management
- Provides patients the feedback they need to make and maintain positive lifestyle changes to reduce their risks, prevent disease progression, and potentially avoid myocardial infarction and stroke

### Intuitive

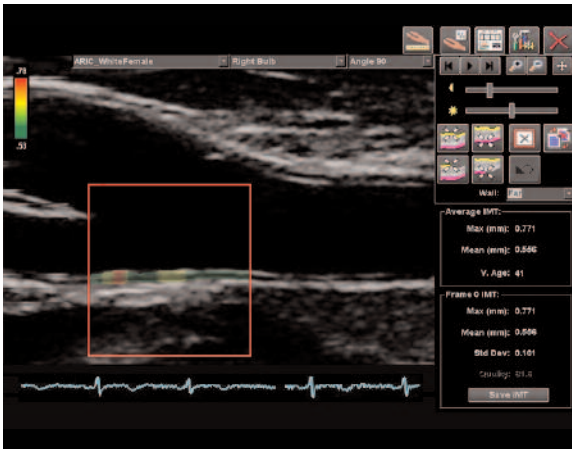
- Easy to use
- Semi-automated with consistent measurements
- Color-coded "at risk" areas are highlighted on clinical images
- Customizable patient demographics and protocols

\* Not commercially available in the United States \*\* Based on Dr. Jim Stein's patented algorithm.<sup>1</sup>

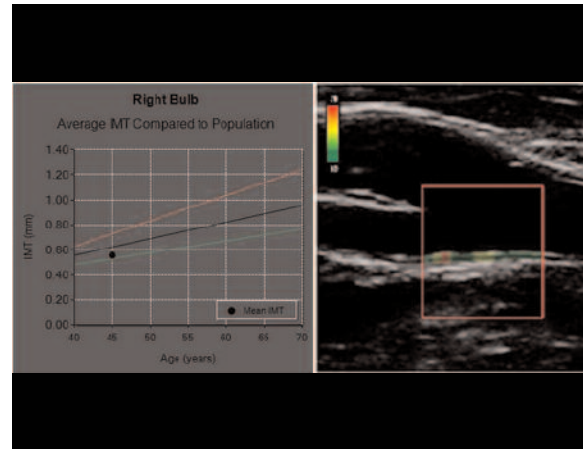
**syngo Arterial Health Package**  
A new vision for preventive care

[www.siemens.com/medical](http://www.siemens.com/medical)

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medical



- Color-coded display highlights areas of thickened intima (red) within the carotid bulb of a 45 year old white female.



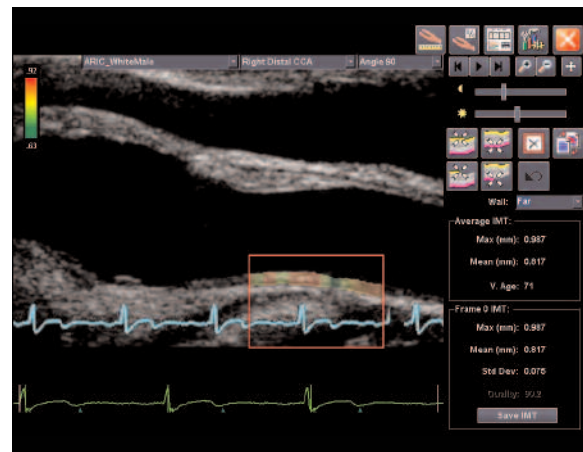
- Corresponding graphic display provides rapid visualization of the normal value for this measurement.

Patient Name: mr. Z  
 Patient ID: 285605116804067  
 Gender: Female  
 Age: 45  
 Exam Description: Stage(1)  
 Exam Date: 1/10/2007 2:14:57 AM  
 Performing Physician:  
 Referring Physician:  
 Institution:

Use VascularAge: True  
 Sex: Male  
 Diabetes: False  
 Blood Pressure (mmHg): 125 / 80  
 Total Cholesterol (mg/dL): 185  
 HDL Cholesterol (mg/dL): 55

Vessel	Max IMT	Mean IMT	Std Dev-Mean IMT	Vascular Age	CHD Risk
Right Bulb Angle 90	0.771 mm	0.556 mm	0.000	40	2%
Right Distal CCA Angle 90	0.463 mm	0.463 mm	0.000	37	1%
Right ICA Angle 90	0.463 mm	0.463 mm	0.000	35	1%
Left Bulb Angle 300	0.634 mm	0.433 mm	0.000	30	1%
Left Distal CCA Angle 300	0.434 mm	0.437 mm	0.000	40	1%
Left ICA Angle 300	0.528 mm	0.399 mm	0.000	30	1%

Composite Mean IMT: 0.443 mm  
 % Equivalents for Composite Mean IMT: Low  
 Average Vascular Age: 33



- CIMT measurements can be made on select ACUSON systems and syngo US Workplace.

## References

- 1 Stein, JH, Fraizer, MC, Aeschlimann SE, Nelson-Worel J, McBride PE, Douglas PS. Vascular age: integrating carotid intima-media thickness measurements with global coronary risk assessment. Clin Cardiol 2004;27:388-92.

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