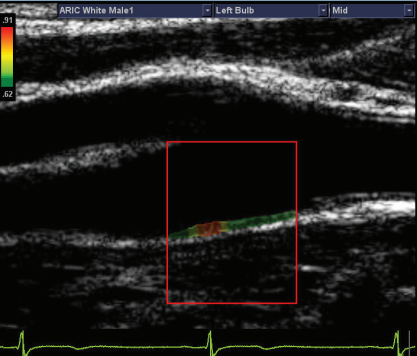


Assess and Treat Asymptomatic Disease



The *syngo*® Arterial Health Package (AHP) application provides the physician with the capability to measure carotid intima-media thickness and the option to reference normative tables that have been validated and published in peer-reviewed studies.

The *syngo* AHP application builds on knowledge-based workflow to significantly enhance consistency and reliability of results, in a quick and efficient manner. The information is intended to provide the physician with an easily understood tool for communicating with patients regarding the state of their cardiovascular system.*

Highlights

Advanced Risk Assessment

- Derives semi-automated composite CIMT value for an individual of a given race and sex and compares this value to the Atherosclerosis Risk in Communities (ARIC) data base
- Calculates Vascular Age** with individualized results
- Derives a Framingham Risk Factors assessment to help evaluate arterial health
- Validated for adult patients, 40 – 70 years of age with no prior history of cardiovascular disease

Convenient

- Available across select ACUSON™ ultrasound systems and with *syngo*® US Workplace
- Delivers comprehensive reports of patient results
- Automated measurements replace tedious, manual measurements improving workflow

Empowering

- Enables physicians to assess and proactively treat subclinical atherosclerotic disease
- Knowledge of thickened CIMT can lead to improved preventative care
- Facilitates monitoring and long-term patient management

Intuitive

- Auto border detection that works on curved surfaces
- Color-coded “at risk” areas are highlighted on clinical images
- Customizable patient demographics and protocols

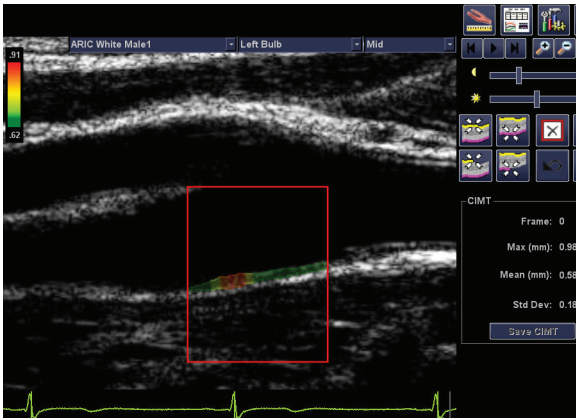
* This feature should be utilized according to the ASE Consensus Statement “Use of Carotid Ultrasound to Identify Subclinical Vascular Disease and Evaluate Cardiovascular Disease Risk: A Consensus Statement from the American Society of Echocardiography Carotid Intima-Media Thickness Task Force, Endorsed by the Society for Vascular Medicine.”

** Based on Dr. Jim Stein’s patented algorithm.¹

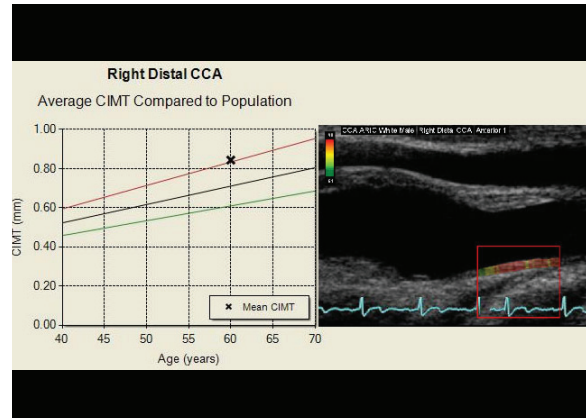
syngo Arterial Health Package
A new vision for preventive care

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



- Corresponding graphic display provides rapid visualization of normal values compared with this patient's abnormal composite CIMT measurement.

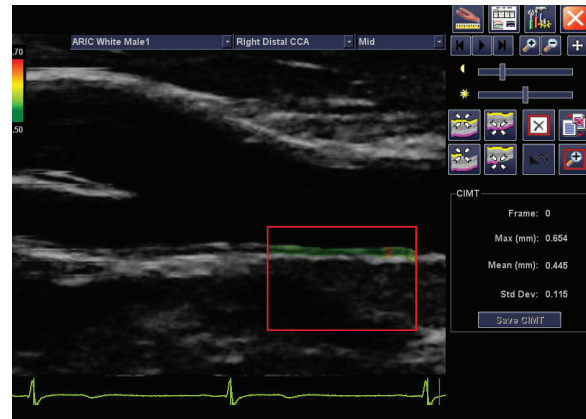
Average CIMT Measurements:

Vessel	Max CIMT	Mean CIMT	Mean CIMT Percentile (for age, sex, and race)
Right Distal CCA Mid	0.654 mm	0.445 mm	< 25th
Right Bulb Mid	0.876 mm	0.529 mm	< 25th
Right ICA Mid	0.771 mm	0.434 mm	< 25th
Left Distal CCA Mid	0.869 mm	0.596 mm	25 - 74th
Left Bulb Mid	0.985 mm	0.588 mm	< 25th
Left ICA Mid	0.609 mm	0.422 mm	< 25th

Composite Mean CIMT (mm): 0.500
 Composite Mean CIMT Percentile: < 25th
 Average Vascular Age (years): 35

- Comprehensive CIMT Report includes carotid intima-media thickness measurements, vascular age (per vessel and average) and risk assessment.**

** This is a subset of the complete report.



- 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.

Standalone clinical images may have been cropped to better visualize pathology.

ACUSON is a trademark of Siemens Medical Solutions USA, Inc. and syngo is a trademark of Siemens AG.

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