



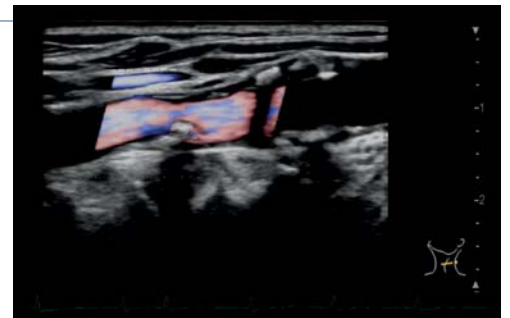
the next level in
cardiovascular ultrasound imaging

Vascular Imaging

Early detection and prevention of cardiovascular diseases like diabetes or arteriosclerosis is especially essential because they can affect other organs as the blood travels through them. It's why we developed specialised tools for the morphological and functional assessment of vessels – giving you reliable data for a confident diagnosis.

One probe to view all vessels with our unique CMUT

It can take up to three probes to view vessels at different depths. So why not save yourself some trouble and choose our CMUT linear probe. It visualises all vessels with ease; and the frequency bandwidth from 22 – 2 MHz can penetrate near and deep anatomy identifying even small vessels throughout. You'll get clear, high resolution images in B mode, Colour and Doppler modes. So why wait? Start saving time and improve your imaging right now.



Assess the risk of arteriosclerosis with Flow Mediated Dilation

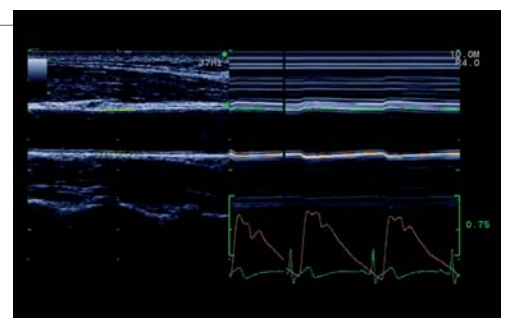
A very early sign that your patient might develop arteriosclerosis can be found in the endothelial function of the vessels. With our FMD, you can measure the changes in vessel dilatation when blood flow volume is increased. The resulting parameters such as %FMD or peak velocity give you detailed insights into the vessel wall condition. All of which helps you take the right preventive steps and improve patient care.



Evaluate the progression of early arteriosclerosis via arterial stiffness

Hypertension can be an early indicator of arteriosclerosis. Now you can confirm this disease with eTRACKING checking the vessel wall stiffness on the carotid. Compared to an ABI test, it's quick, stable and unique. We are the only vendor offering this detailed level of insights. In fact, you can automatically obtain a comprehensive range of stiffness parameters like β , PWV, Ep and others within seconds. For more on this topic check out this recently published study on *European normal values by age and gender*.

<https://www.nature.com/articles/s41371-019-0228-5>

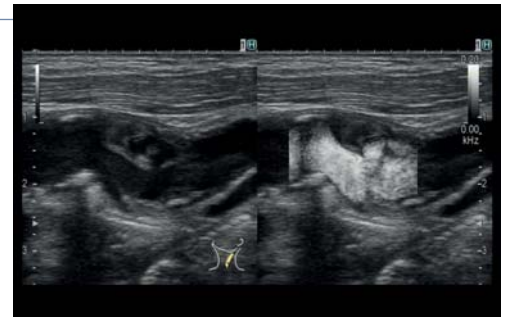




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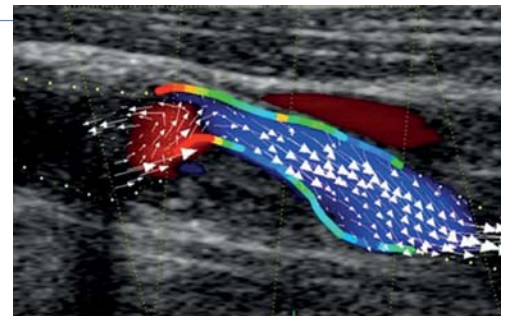
Combine plaque and velocity data to manage arteriostenosis

Plaque can cause severe arteriostenosis, and patients may need different care depending on type and grade. Now you can characterise plaque in detail with our high resolution B mode and check its vascularity with the highly sensitive DFI. Combine this information with Continuous Wave Doppler using the same probe to quantify velocities in the blood flow around it. You can obtain a detailed overview of the plaque and its risk of reaching the brain and make confident treatment decisions.



Assess the vascular system in the whole body of your diabetes patients

We know you need to understand and monitor the whole vascular system for patients with certain vascular diseases like diabetes – which can develop into atherosclerosis or stenosis in peripheral vessels. Which is why our ultrasound solutions help you view the endothelial function, vessel wall thickness and stiffness, plaque or blood flow velocities in detail. As an additional research tool, our Vascular VFM can even quantify wall shear stress to assess the possibility of vascular access.



Increase efficiency and accuracy with AI based automatisation

With vascular scans you need to manually adjust the image for a variety of large, small, slow and fast vessels. But not anymore. Now you can use our iVascular for AI based, automated detection of any vessel. With just one click it modifies the sample volume, base line and velocity. And when you combine it with our intuitive examination protocol to program your preferred settings the result is saved time, increased accuracy and a more comfortable examination.

