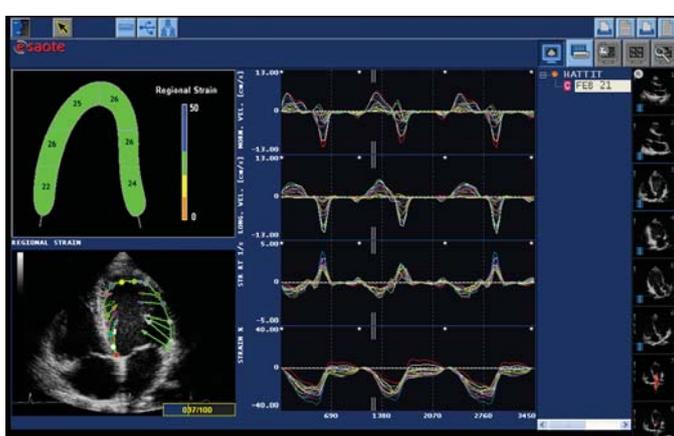
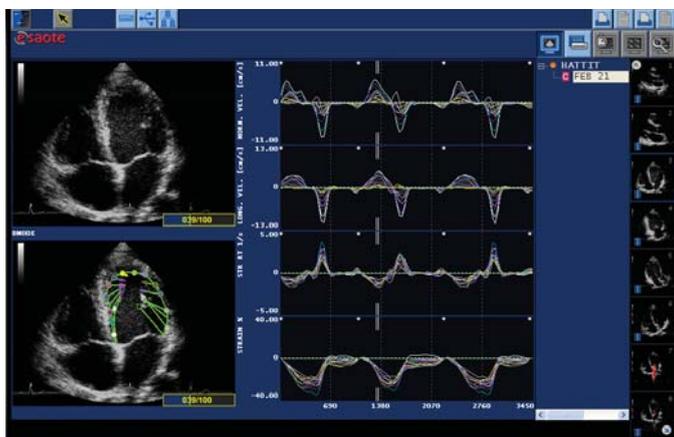
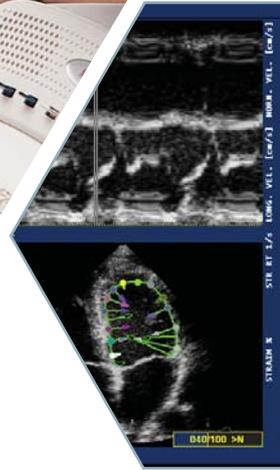
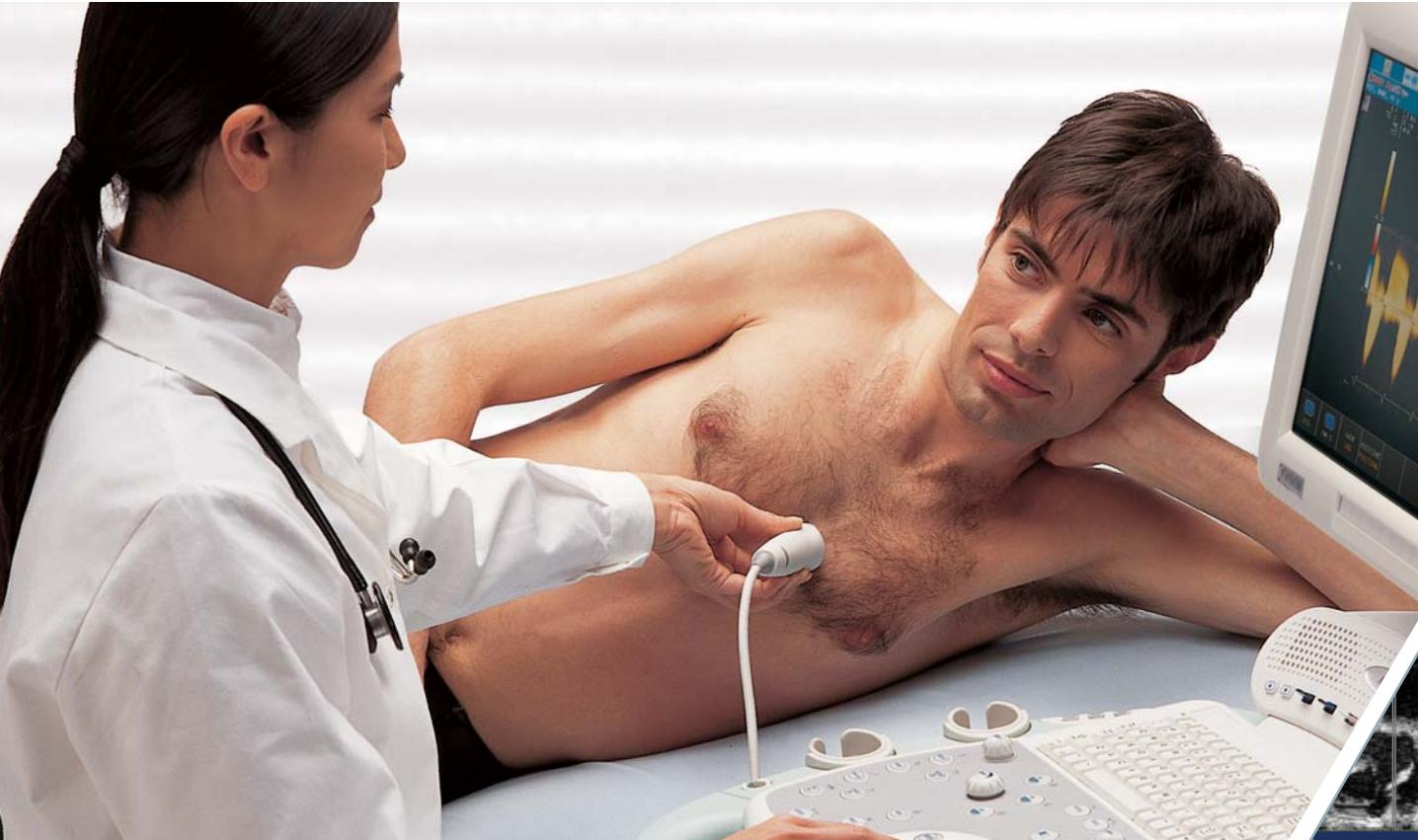


A New Look at the Heart

 XStrain





XStrain™ is Esaote's truly innovative new imaging method to estimate and quantify endocardial velocities of contraction and relaxation, and estimate and quantify local deformation of the heart (Strain and Strain Rate).

> Extensive potential applications

XStrain is a non-invasive tool to better investigate the myocardial function and explore and quantify aspects of the heart's physiology which were not possible to detect and quantify with previous ultrasound technologies. Myocardial velocities and myocardial strain and strain rate can detect early impairment of myocardial contractility far before an impairment of the pump function (assessed as ejection fraction or stroke volume). As it relies on angle-independent technology, XStrain allows for the assessment of the contractibility of both left and right ventricles.

XStrain provides an innovative tool for the mechanical assessment of the heart's wall motion. Therefore, it can provide quantitative support to standard stress echo examinations and can be used when examining and monitoring patients with systemic disorders or congenital pathologies in order to identify early signs of changes in cardiac wall motion. When recognized early, further myocardial damage may be prevented by changes in lifestyle and/or pharmacologic treatment.

- > Innovative and non-invasive
- > Angle-independent technology
- > User-friendly interface

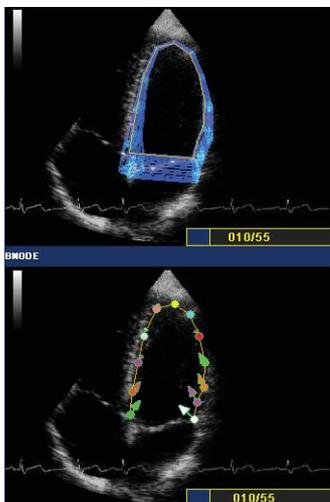


> Comprehensive measurement possibilities

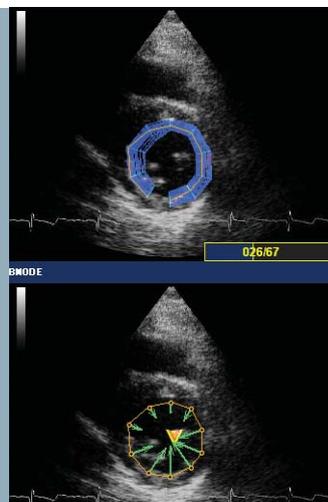
XStrain is 2D imaging based and therefore angle independent. The 2D based technology makes real-time XStrain analysis possible without reducing the 2D frame rate. It also allows XStrain to measure not only the longitudinal mechanics of the heart, but also the radial and circumferential mechanics of the LV.

> Intuitive workflow

While using a sophisticated and patented border-tracking algorithm to produce results, XStrain is surprisingly easy to learn and use. It is fully integrated into Esaote's MyLab™ platform and has been developed with a 'one window' user interface. Esaote has made examinations with this premium technology possible for all levels of cardiovascular ultrasound practices and departments. As part of Esaote's MyLab Advanced Cardiac Package, XStrain can play an important role in the comprehensive diagnosis and treatment of cardiology patients.



XStrain is able to follow the myocardial borders over time, and therefore allows visualization and easy detection of asynergic regions.



XStrain is not angle dependent and has a higher capability to get information about the radial velocity, especially of the lateral heart walls.



XStrain



ISO 13845 ISO 9001



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