usono

smart ultrasound solutions

Usono is a high potential medtech startup based on the High Tech Campus in Eindhoven. We radically change the ultrasound market by improving and innovating the way ultrasound is used. Ultrasound is a very well-known image modality. In general, ultrasound transducers are freely moved during procedures, however other procedures require the ultrasound transducer to be fixated, mostly in cardiology and radiology departments. Our patented products, the ProbeFix and ProbeFix S are devices to fixate ultrasound transducers to the body.

# ProbeFix

The ProbeFix provides correct and stable fixation and viewing angle of an ultrasound transducer on the body in an easy and patient-friendly manner. This tool empowers its users to improve their current procedures by releasing stress on the shoulder. Hands-free and lenghty use of ultrasound is very valuable in stress echo procedures, pacemaker optimization, and monitoring in the heart catherization lab and intensive care unit.

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## Stress echo

Stress echocardiography is a procedure with dobutamine or a physical exercise on a bike or treadmill. During this lenghty procedure, both wall thickness and flow are measured to assess the state of the heart. ProbeFix fixates an ultrasound transducer to the apical side and allows continuous monitoring of the four-chamber view on the same position. This handsfree procedure is even possible during the physical exercise. This leads to more reliable data and a better workflow.

## Cardiac output

Cardiac output monitoring of the heart is important to asses if there is a need for fluid administration to the patient. Continuous VTI monitoring with ultrasound allows for a non-invasive way to monitor the cardiac output. ProbeFix fixates an ultrasound transducer to the apical side to create a continuous four or five chamber view of the heart. This allows the operator to monitor the heart for long periods of time, for over 15 minutes. This assessment leads to better estimation of fluid administration and state of the heart in for example intensive care.

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