



Step up to the iU22

The key reasons are now even more compelling

PHILIPS

The reasons to step up to the iU22 are now more compelling than ever

Reason #1

Reduce failed ultrasound exams on your technically difficult patients by as much as 69% with the **C5-1 PureWave transducer**.

Reason #2

Reduce ultrasound exam time by as much as 50% with **SmartExam**.

Reason #3

Improve early detection and characterization of breast lesions with **new tissue aberration correction technology**.

Reason #4

Discover the advantages of volume imaging with the new **VL13-5 high-frequency volume linear array transducer**.

Reason #5

Gain a better perspective of needle location during biopsies and ablations. Introducing the **iU22/PercuNav solution**.



Reason #1 Reduce failed ultrasound exams by as much as 69% with the C5-1 PureWave transducer



Problem

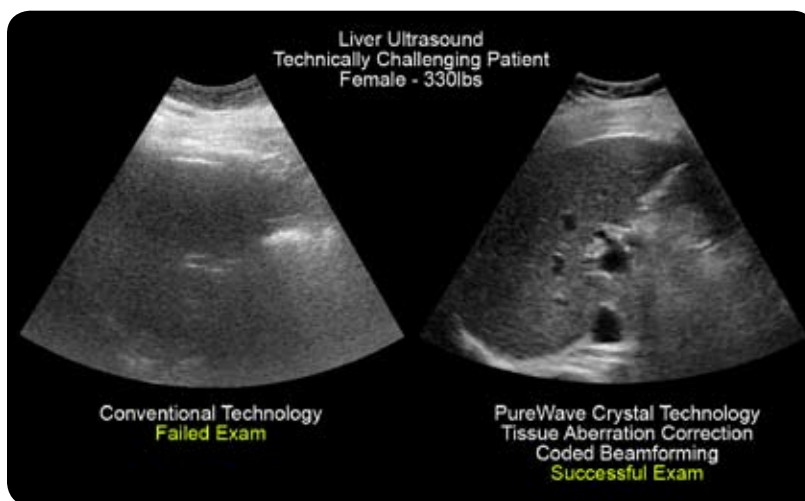
The prevalence of obesity is rising at an alarming rate. Statistics show that 25% to 50% of abdominal exams are large patients. You know the challenges—longer exams, sonographer injuries, and less definitive diagnoses.



Solution

A recent ultrasound study on technically difficult patients at six sites in North America and Europe using the C5-1 has shown that this technology can have a very positive impact on your ultrasound lab. The following summarizes the results of the study:

- Using the C5-1 transducer prevented a recommendation for additional studies with CT and/or MR due to an inadequate ultrasound study in 8% to 69% of the cases
- Exam times reduced by 2% to 38%
- A reduction in pain and fatigue from scanning in 29% to 85% of exams
- Sonographers felt that they had to push less in 48% to 93% of the cases in order to achieve penetration of an organ or structure
- Marked improvement in color sensitivity in 31% to 86% of the cases



Imaging the Challenging Patient Comparison Study—female, 330 lbs

Reason #2

Reducing ultrasound exam time by up to 50% is now as easy as doing one exam

Introducing SmartExam

Problem

The increasing case load of ultrasound departments is driving ultrasound clinicians to find ways to increase productivity and improve efficiencies in performing ultrasound exams.

Solution

The iU22 protocols feature has already been shown to reduce ultrasound exam time by 30% to 50%. Now designing a new exam protocol is as easy as performing the exam. With the new SmartExam feature, while you perform the ultrasound application, the iU22 remembers every step—all required images for the study, your annotation,

body markers, mode changes, and quantification requirements. You can even incorporate 3D data sets into the protocol. Once the exam is saved, you can select and use your new customized protocol whenever you need it. Annotation will be entered exactly the same each time, based on the view you're acquiring—no need to stop scanning and make entries. Required modes, such as Doppler, are automatically launched, and measurements are automatically entered into reports.

Independent studies show SmartExams save time

Exam	Time savings
Abdominal	38%
Vascular	52%
OB	43%

Reason #3

Improve early detection and characterization of breast lesions

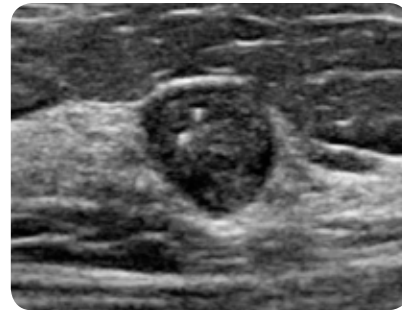
New tissue aberration correction technology improves lesion resolution

Problem

One in eight women will develop breast cancer. This is now the second leading cause of death for women in the world, partly because many breast lesions go too late before they can be characterized as malignant or benign. Breast tissue with higher fat content will result in speed of sound changes. The reduction of overall image sharpness and decreased tissue definition make diagnosis even more challenging.

Solution

Now the iU22 system offers tissue aberration correction on breast transducers to compensate for speed of sound variations, improving detail resolution and conspicuity of lesion details. With the push of one button users can select tissue aberration correction variations to match speed of sound processing to individual breast fat content, allowing optimum diagnostic performance across the spectrum of breast architecture types—dense to fatty.



Tissue Aberration Correction



Standard Speed of Sound

Vision 2009 advanced breast imaging



Reason #4

Discover the advantages of volume imaging



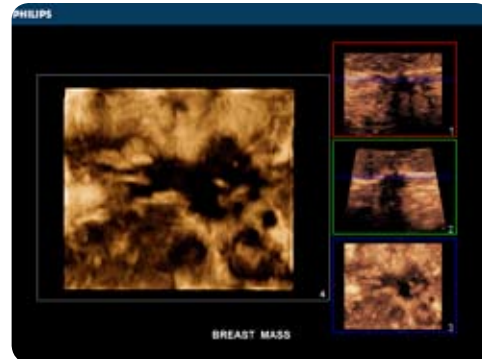
Introducing the VL13-5 high-frequency volume linear array transducer

Problem

2D images and clips do not permit examination of structures in planes that cannot be directly interrogated by the ultrasound beam, nor do they provide 3D representations of anatomy. There is often doubt with 2D imaging when you are scanning in fixed planes and concern that something may have been missed. Viewing ultrasound images is not the same as CT and MR. It's the difference between reviewing random 2D ultrasound images versus a block of volume data.

Solution

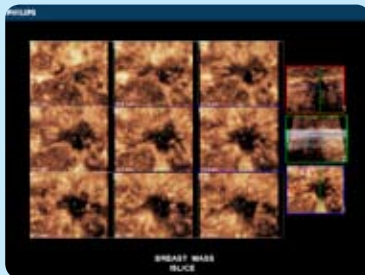
With volume imaging on the iU22 system and the ViewForum workstation, you are now able to view ultrasound in the same format as CT and MR. Virtually re-scan volume data in a familiar workflow, obtain critical information not available with traditional 2D views, take additional measurements, and compare



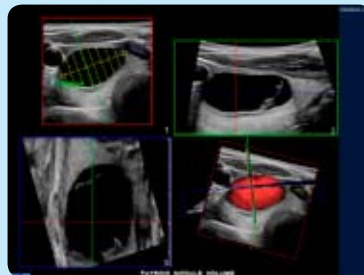
ultrasound studies with other modalities.

In addition to volume transducers for abdominal, OB and GYN exams, the new VL13-5 high-frequency linear array allows you to review volume data for breast, thyroid, musculoskeletal, vascular, and other superficial applications.

VL13-5 volume linear



Breast Imaging



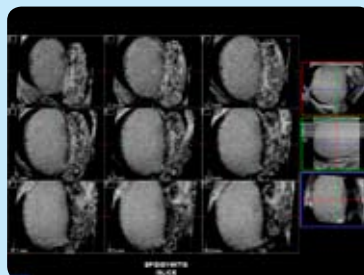
Thyroid Imaging



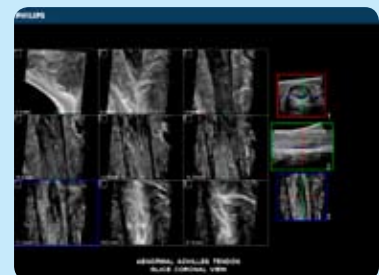
Breast Imaging



Vascular Imaging



Testicular Imaging



Musculoskeletal Imaging

Reason #5

Gain a better perspective of needle location during biopsies and ablations

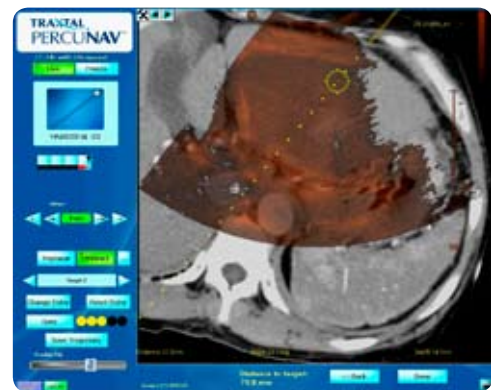
Introducing the iU22/PercuNav solution

Problem:

Performing biopsies and ablations are challenging because it is difficult to visualize the needle tip and targeted lesion, especially in difficult-to-reach anatomies.

Solution:

The iU22 now has a digital navigation link with the Traxtal PercuNav system for image fusion and improved instrument tracking. The PercuNav system acts like a GPS for the human body when guiding soft tissue biopsy and ablation procedures. The combined iU22/PercuNav solution transforms two-dimensional patient images into dynamic, fused imaging maps that combine CT and MR imaging with live ultrasound. This combination enables you to optimally visualize lesions and instrument tip location in the body.



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