PRESS RELEASE

Revolution in Breast Cancer Diagnosis

AB-CT Advanced Breast-CT GmbH granted CE Certification for Breast CT Scanner nu:view

Erlangen, September 13, 2018. Even with high-tech technology and skilled, qualified radiologists, early and reliable diagnosis of breast cancer remains challenging. According to the German Cancer Research Center in Heidelberg, some 69,000 women in Germany are diagnosed with breast cancer every year, with almost 18,000 dying of the disease. Conventional diagnosis methods, while well established, are not always reliable. 3D imaging with high isotropic resolution, on the other hand, offers clear advantages.

nu:view, the world's first breast CT scanner to use spiral CT technology, is the brainchild of Erlangen-based company AB-CT. With the CE marking for nu:view in place, the new scanner is already in use on patients at the University Hospital Zurich (USZ).

What sets nu:view apart is the very high image resolution coupled with low radiation dose and short scan times, explains AB-CT CEO Benjamin Kalender, referring to the benefits of the new CT scanner. "To obtain the best possible image quality and maximize radiation dose efficiency at the same time, the detector uses state-of-the-art single photon counting technology." Unlike conventional scintillation, nu:view uses detectors made of cadmium telluride (CdTe), transforming every x-ray photon directly into an electric pulse.

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ISOTROPIC
3D RESOLUTION

AB-CT – Advanced Breast-CT GmbH | Henkestraße 91 | 91052 Erlangen | Germany | Tel: +49 9131 / 97 310-0 | Fax: +49 9131 / 97 310-10
E-Mail: info@ab-ct.com | www.ab-ct.com | Geschäftsführer: Benjamin Kalender | AG Fürth | HRB 15738 | Steuernummer: 216/121/20649
USt-IdNr.: DE 307 392 016 | WEEE-Reg.-Nr.: DE 859 240 27 | Sparkasse Erlangen | IBAN: DE89 7635 0000 0060 0772 86 | BIC: BYLADEM1ERH

First images deliver impressive results

In a single rotation around the female breast, 2,000 projection images are created, with a full scan taking as little as seven to 12 seconds—at very low radiation levels without breast compression, ensuring excellent patient comfort. “For the first time we have a CT scanner that makes is possible to acquire an image of the entire female breast in a single scan in true 3D, imaging both the soft tissue and the calcifications,” the CEO explains.

Prof. Dr. Andreas Boss, senior consultant for breast imaging at the Institute for Diagnostic and Interventional Radiology at University Hospital Zurich and first user of nu:view, can attest to its merits: “The images are impressive; the image quality is excellent. Compared to mammography, the three dimensional, non-superimposed images make it far easier to detect micro-calcifications. This non-compressive method also means less discomfort for the patient and reduces the number of additional ultrasound images into the bargain.”

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About AB-CT Advanced Breast-CT GmbH

AB-CT is a young, high-tech enterprise that was a spin-off of the Institute for Medical Physics at the University of Erlangen headed by von Prof. Willi A. Kalender.
Founder and scientific advisor Prof. Kalender’s main research focus has always been diagnostic imaging, in particular the development and market launch of volumetric spiral computer tomography.
In 2008, Prof. Kalender headed the project “Breast CT”, which was backed by the EU and the German Federal Ministry for Education and Research (BMBF).
At AB-CT, a team of 35 headed by CEO Benjamin Kalender specializes in research and development of leading solutions for diagnostic breast imaging for women.

Further information can be found at www.ab-ct.com.

Tel: +49 9131 / 97 310-0
E-Mail: info@ab-ct.com
www.ab-ct.com

Corporate contact

AB-CT Advanced Breast-CT
Ludger Hajduk
Henkestraße 91
91052 Erlangen
Tel.: +49 9131 97310 23
E-mail: ludger.hajduk@ab-ct.com

Press contact

ralf buchholz healthcare communications
Ralf Buchholz
Alte Volksparkstrasse 24
D-22525 Hamburg
Tel.: +49 40 20 97 68 05
E-mail: r.buchholz@ralfbuchholz-hc.de